this issue:

wine Shows Scheduled in September
Neal Heads Parasite Group
Insect Control Methods Given
Angus Calves Sell Sept. 13
Foster Says Osoto Soil Upside-Down
Wherever there's a tough job like this to be done, the International TD-24 is the tractor to do it at lowest cost. Mr. Leno Deshong, Grading Contractor of Plant City, Florida, says, "The International TD-24 Crawler does 3 to 4 times as much work as any other tractor. On the tough big trees one push is often enough when other tractors would need several passes at it. Greater power and easy operation show up here. I started in business a few years ago with one International TD-18 and now I keep two International TD-24's and two TD-18's busy. Have been using Internationals all the way and will stay with them."

"INTERNATIONAL DIESEL POWER"

Sales - Parts - Service

FLORIDA-GEORGIA TRACTOR COMPANY

SAVANNAH JACKSONVILLE TALLAHASSEE ORLANDO

LAKELAND TAMPA MIAMI
EDITOR'S DIARY

EDITOR'S DIARY

Florida's cattlemen will occupy one of Florida's best known convention hotels during the Florida State Cattlemen's Association meet in Daytona Beach this coming November. Volusia association, which will be host for the convention, have decided to hold it at the Princess Issena Hotel. This will be the first FSCA convention ever held in an East Coast city since the organization met in St. Augustine some years back.

Cocoa's A. Duda and Sons have hired Horace Fulford, former herdsman at the S. Harris Ranch near Kissimmee, to take charge of their purebred Brahman herd under manager Gilbert Tucker. Harry Westbury of Palatka's Rainbow Ranch is being married to Miss "Mickey" Motes who has run the Rainbow Ranch office for several years. Dr. R. MacEachen of Sarasota who has been instrumental in developing an all-metal hurricane-proof barn fears that the war situation will prevent further development of the product. Barns are located at MacEachen's M-Bar-M Ranch and at Durance Ranch near Brighton. Burt Alfred of the Atlantic Coast Line has been keeping in close touch with the rice growing project in southern Osceola County. He says a reasonably good crop is expected, and that the growers are pleased with initial results.

The Gulf Coast counties northwest of Ocala are going ahead rapidly on pasture improvement since passage of the stock law. County Agent T. D. Rickenthaler of Levy County says there was good interest in a pasture tour recently. Up in Trenton, which is only a few miles from the Gulf, pastures and farming are being developed together by farmers like C. R. Colson who heads the new Gilchrist County Cattlemen's Association. Demand is good for Pensacola Bahia grass seed in the face of a large crop, growers report. Johnson Brothers in Gainesville say there is a growing demand in Georgia for the seed.

Hereford breeders will probably hold their annual sale in Quincy, if one is held this year, directors have decided. Mrs. Ruby Jane Hancock of Okeechobee found a muck fire was a mixed blessing. Her Carib grass came back much better than before it was burned. Progress on the new 4-H Club camp at Lake Placid has been considerable and a lot of credit goes to Kenneth McMullen.
The Florida Cattlemen and Livestock Journal

September, 1950

Audis M. Cody
Publisher

Robert S. Cody
Editor


Contents for September, 1950

Editor's Diary ........................................... 3
Editor's Desk .......................................... 6
Methods for Control of External Parasites Are Given, by Dr. Leonard E. Swanson and Edward G. Batte .................................................. 14
Fertilization Grows Fish near Camp McQuarrie ........................................... 16
4-H Workers Help Build Newest Camp near Lake Placid ...................................... 19
O'Neal Chairman of FSQA Parasite Group; Foresters to Fix Fences ..................... 20
Foster Says Bedding Makes Better Pastures .................................................. 22
Use of Chain Simplifies Clearing Hernando Scrub ........................................... 24
Feeding Potential Is Good In Florida, Davis Thinks ......................................... 26
Swine Shows Scheduled at Ocala and Quincy During September ....................... 28
Brahmans to Show for First Time at Southeastern Fair in Atlanta ....................... 30
500 Aberdeen-Angus Calves Will Sell September 13 at Gainesville .................... 33
Armyworm Control Means Pasture Spraying, by Dr. A. N. Tissot ...................... 46
Don't Miss St. Augustine Grass, by Dr. Roy A. Bair ....................................... 50
Lignin from Seed Reduces Food Value in Citrus Pulp, by J. Edwin Hutchaman .... 52
Swine Business Is More Valuable to State than Realized, by Dr. T. J. Cunha ....... 55
For the Kowbelles: Schooldays Are Here, by Ethel Hales Stancil ..................... 64

Editorials

Calendar of Livestock Events

Aug. 29-West Florida Swine Field Day .................................................. Quincy
Aug. 31-Adams Company and Purina Swine Field Day ..................................... Lake City
Sept. 15-Third Annual Aberdeen-Angus Feeder Calf Sale ................................. Gainesville
Sept. 18-19-12th Annual Ocala Fat Hog Show and All-Breed Swine Show .......... Ocala
Sept. 25-26-Second Annual Fat and Breeders Hog Show ................................ Ocala
Oct. 2-4-Second Annual Suwannee Valley Swine Show .................................... Quincy
Oct. 7-Gilchrist County Beef cattle Breeder Show ......................................... Trenton
Oct. 15-Aberdeen-Angus Association Field Day ............................................. Gainesville
Oct. 31-Nov. 4-North Florida Fair and State 4-H Breeder Hog Show ............... Tallahassee
Nov. 2-4-Summer All-Florida Breeders' Show ............................................. Websterville
Nov. 5-Annual Aberdeen-Angus Fall Sale .................................................. Websterville
Nov. 17-20-Ocala Brahman Show and Sale .................................................. Ocala
Jan. 17-20-Ocala Brahman Show and Sale .................................................. Ocala
Jan. 30-Feb. 10-Florida State Fair .............................................................. Tampa

OFFICIAL PUBLICATION

Florida State Cattlemen's Association, Irao Bronson, President, Kissimmee
Eastern Brahman Association, L. E. Fugle, President, DeLand
Florida Hereford Association, Inc., T. Noble Brown, President, Webster
Florida Aberdeen-Angus Association, J. P. Ramsey, President, Micanopy
Florida Palomino Exhibitors' Association, W. G. Champion, Jr., President, Orlando
Florida Quarter Horse Association, T. J. Durance, Jr., President, Brighton
Florida Quarter Running Horse Association, Joe Priest, President, Tavares
Florida Shorthorn Breeders' Association, Dr. D. W. Griffin, President, Chipley
Florida State Duroc Breeders' Association, Harry J. Boyles, President, Live Oak


The Florida Cattlemen


The Florida Cattlemen


The Florida Cattlemen


The Florida Cattlemen


"WHOA MULE!
Did you know that five years' production of the WOOD ROTARY CUTTER has resulted in belt-line assembly?"

"BACK MY LEG,
Sadie May, if that ain't the truth! And they have included every possible improvement to make this the best mower on the market!"

WEEDS WON'T MAKE MONEY FOR YOU

but young grass will.

If you don't have a WOOD ROTARY CUTTER, get your order on the books now...

25 DEALERS IN FLORIDA TO SERVE YOU

Pounds Motor Company........Phone 62, Winter Garden
Stout Equipment Co. ..........1435 S. Monroe (Ph. 373-L) Tallahassee
Faircloth Truck & Tractor Co. .......2829 S. Dixie (Ph. 34-121) West Palm Beach
Pounds Tractor Company........Phone 23-171, Winter Haven
Pounds-Zeiss Tractor Co...........Phone 3901, Sebring
Shelley Tractor and Equipment Co.(Ph. 42-594) Miami
Taylor & Munnell..............Phone 131, Fort Pierce
Orange State Motor Co., Inc......Phone 4395, Bradenton
Orange State Motor Co., Inc......Phone 29-371, Tampa

Orange State Motor Co., Inc....Phone 71-809, St. Petersburg
Florida Tractor & Supply Co....Phone 3177, Hollywood
Farm Machinery Sales Co...........Phone 357, Pompano
Dade Tractor Company............Phone 436, Homestead
Gibbs Corporation
Jacksonville, Ocala, Alachua, Leesburg, Madison, Lake City, Palatka, Chiefland, Bushnell
Wolcott Industries..............Melbourne
Okeechobee Tractor Company.......Okeechobee
Hart Tractor Company............Marianna
Turnage Tractor & Supply Co.......Live Oak

JOHN A. TABIT, State Distributor, BELLE GLADE, FLORIDA

Manufactured Only by
WOOD BROTHERS MANUFACTURING COMPANY, P. O. BOX 181, OREGON, ILLINOIS

for September, 1950
This message is only for those cattlemen who raise their cattle for profit. They are the ones who know that only the best quality gets the best prices. To get strong, big, sturdy beef cattle you have to have good grass, rich and green and full of calcium and magnesium.

Dolomite does the job for you. It restores the proper acid-alkali balance, releases natural plant food and gives you better, sturdier quality cattle, because it supplies the essential magnesium and calcium.

For very large pastures where cost is a factor yet the soil-correcting benefits of calcium are needed, we can furnish High Calcium limestone or limestone screenings for beneficial results. Your County Agent will tell you about this AAA approved pasture improvement material and government allowances for its use.

Build your cattle fences to last years longer! You can easily do it... and economically too... by using CELCURE PROCESSED POSTS! They're ROT-PROOF, INSECT-PROOF, NON-STICKY and NOT A FIRE HAZARD!

See or write us today. We have a good supply on hand ready for your immediate use.

E. D. COOK LUMBER COMPANY
Phone (Orlando) 3-3026 1905 66th Street
LOCKHART, FLORIDA TAMPA, FLORIDA

Editor's Desk

What do our readers think of us?

What do readers of The Cattleman like best about the magazine and what would they like to see emphasized more?

Well, we don't know for sure; but at least a partial indication is the comment on cards returned in connection with a poll of our readers to determine what other magazines they read regularly.

At bottom of the card we asked: "What features do you like in The Cattleman? How would you improve the editorial content?"

Here are some of the replies:

"Just continue. You are doing good."
"Think your magazine is one of the best."
"Your Cattleman is tops with me, and a great educational journal for the one who will read it. No need for improvement."
"I have no remarks to make, only I like The Cattleman OK."

84 percent of those replying agreed with the comment expressed above.

"I would like to see some statistics on beef production on various kinds of improved grasses."
"Articles on grasses are a favorite. Would like article on value of native grasses such as red top compared to other grasses."
"Pasture improvement ideas are good."
"I like all informative articles on cattle, grasses, feeds and diseases."
"We like mainly articles about cattle and equipment adapted to the industry. We like your (our) magazine very much. Wish it came more often."
"I like your articles on pasture improvement. Everybody is interested in that nowadays. May we have more?"

About 29 percent of those replying like the pasture articles we are already using and think we should use more. Others mentioned our cattle news coverage, features like Editor's Desk and For the Cowmen, stories on cattle breeding and upgrading. Some simply asked for more educational articles.

"We like pasture improvement, new equipment, cattle news, advertisements."
"Leave out some of the advertising and have articles on pastures, feeding and care of livestock."

Most of our readers know that advertising is the life-blood of most publications. The more advertising there is, the more editorial material can be included. Sometimes we suspect that many of our readers read the ads as thoroughly or more thoroughly than they do the stories.

The Florida Cattleman
Florida's amazing advance as a cattle country is based on grass. And in Florida's development of lush pastures, the implement in a class all by itself is the Case Brushland Harrow. Its big notched blades roll unharmed over low stumps and rock, cut through roots and brush, blend coarse vegetation into soil without cutting too deep in sand. For hundreds of cattlemen it has hustled thousands of acres—both wild land and old pastures—into readiness for seeding profitable pasture mixtures at big savings of time and expense.

To get full capacity from the Brushland Harrow in tough soils, brush or palmetto, the ideal tractor is the Case Model "LA." Easy to handle as smaller tractors, it has a range of practical field speeds to make the most of its sure-footed traction and eager engine power. World-famous for low upkeep and long life with low-cost liquid fuels, it can now be factory-equipped for burning butane and propane. This LPG equipment, like the hydraulic control shown on tractor and harrow, are optional at extra cost.

Clears the Way for GRASS

Famous CASE "LA" Tractor and Brushland Harrow

SEE YOUR NEAREST CASE DEALER

Batey Equipment Co., Gainesville
Beasley Tractor Co., Palatka
Coastal Truck & Equip. Co., Belle Glade
Coastal Truck & Equip. Co., West Palm Beach
Cosey Motor Company, Wauchula
Thompson Tractor & Equip. Co., Tampa
Farm Mach. & Sales Co., Pompano
Fla. Tractor & Supply Co., Hollywood
J. W. Gibson, Madison
Grantham Chevrolet Co., Live Oak
Indian River Tractor Serv., Cocoa
West Florida Equipment

S. A. Jepson Tractor Serv., Ft. Myers
Medlock Tractor Co., Orlando
Ed Madill, Dade City
Plemmons Bros. Mach. Co., Quincy
Pounds Motor Co., Winter Garden
Pounds Tractor Co., Winter Haven
Pounds Zeiss Tractor Co., Sebring
Reeves Tractor Co., Tallahassee
A. G. Smith, Palmetto
Taylor Munnell Mach. Wks., Ft. Pierce
Wade-Persons, Lake City
Company, Marianna

For September, 1950
Complete Line of BARBED WIRE, LUMBER, and LANDING MATS for Cattlemen and Farmers

Fertilize, Seed, Inoculate and Irrigate . . . with one man . . . 20 acres in 20 hours using the equipment illustrated above! Call on our experience to help you solve your pasture irrigation problem; we’re as near as your telephone. No inquiry is too small to receive our detailed attention; no installation is too large for us to handle efficiently. Charlie Race, President. Owners and operators of Circle A-2 Ranch, Holopaw.

Aluminum Irrigation, Inc.

DIAMOND A-2 PRODUCTS—They Reign Supreme

If we can help you, phone us collect 34-391 • WINTER HAVEN

Cattle trucking is getting to be a big business in Florida. The string of trucks shown above were part of 11 owned by Kissimmee and Okeechobee truckers which hauled several thousand cattle 200 miles from one southern Florida ranch to another during a two week period.

“It gives you the news of Florida cattlemen I like the HORSE OF THE MONTH page.”

“Stop publishing such baloney as that HORSE OF THE MONTH article in the June issue.”

Why Don’t We Learn How to Add?

Jacksonville

Dear Editor:

In the August CATTLEMAN I note that your figures on cattle and swine sales at Florida auction markets don’t match the estimates which we have been compiling during the 12 months ending June 30, 1950—same period covered by your estimates.

We’d welcome the opportunity to compare our figures with yours, so that we can determine where error has been made, whether in your figures or in ours.

The State Marketing Bureau makes a real effort to keep track of livestock sales throughout the state, and it is our belief that we have made fairly accurate estimates. Gifford N. Rhodes State Marketing Bureau

Cattle on grass require lots of Mineral BINGO RED MINERAL is palatable, freely eaten, and furnishes the need. They Like Bingo Mineral

LAKELAND CASH FEED COMPANY LAKELAND FLORIDA

We bow to the State Marketing Bureau, which estimates that 253,000 cattle and 457,000 swine were marketed through Florida auction markets during the 12 months ending June 30. Simple errors in...
"PURINA RANGE CHECKERS HELP ME HAVE HEAVIER CALVES TO SELL,"

Says Rufus Arnold, Snead's, Florida

Rufus Arnold, a five-year Purina Range Checker feeder, says, "I haven't lost a cow during the winter since feeding Purina. I get good, strong calves and heavy calves to sell. I notice that my cows breed back better and have plenty milk, too. Cattle really like Checkers. Just honk your horn and they come running!"

Research has proved a balanced-type ration better than cottonseed cake or other single-source supplements. Range experiments also show high-protein supplements wasteful and lacking in vitamins needed for thorough condition.

The VARIETY of ingredients in Purina Range Checkers and Range Meal gets the range cow in shape to calve a sturdy calf and supply it with lots of milk for fast growth.

Many Purina feeders report increased calf crops and less calving trouble, too.

Purina Range Checkers and Range Meal, containing a VARIETY of ingredients needed for correctly supplementing roughage, are priced right! See your Purina Dealer today.

VARiETY makes a big difference

RALSTON PURINA COMPANY
St. Louis - Nashville - Tampa - Miami
There still may be a question about the kind of grass that makes the best all round pastures in Florida. Many cattlemen prefer Pangola and others prefer Pensacola Bahia but there is no question about this—Farmers can make extra income if they fertilize and manage them well.

We have developed new grades of Red Steer Plant Food for the pasture soils of Florida. Swift's Red Steer Pasture Special supplies the minerals that grasses need to grow well in our soils. It does more—it helps produce higher proteins and forage rich in essential minerals that cattle need.

Let a representative of our Growers' Advisory Service discuss pasture maintenance with you. Have him check your soil and give you up-to-date information on grasses and pasture improvement, or you can write us and we will see you get the information you need to make your pastures yield higher profits.

SWIFT'S new process RED STEER

PASTURE SPECIAL

SWIFT & COMPANY
Plant Food Division • Winter Haven, Florida
Phone 2-0042 - 20242

Former Missionary to India Needs Dairy Cows

Babson Park

Dear Editor:

I need your help and advice. I saw (less than two months ago) at Beltsville, Maryland, experiment station, 10 Sindhi-Jersey heifers. All calved since last November. They were averaging about two pounds of butterfat per day, on less concentrate and grain than American feeding standards call for.

This Christian Service Training Center is about to start its dairy herd. I would like to do it by getting up to 40 dairy breed heifers, from healthy, veterinarian passed, high-yielding dams—pure-bred if possible. I would prefer to get them weaned. The center is to have a herd sire a half-bred Sindhi-Jersey bull. Careful records will be kept which should prove valuable to Florida dairymen.

I would like the Florida dairymen to make a gift of these heifers to the Center...

Sam Higginbottom
Christian Service Training Center

Dr. Higginbottom made a brilliant record as an agricultural missionary in Allahabad, India for many years, and is a former moderator of the Presbyterian Church in the U.S.A. Now retired, he was instrumental in influencing the USDA to make the Red Sindhi imports (the breed is an Indian dairy strain). We suggest that those interested write him directly.

Couldn't We Make It Happen Here?

Since losses through careless handling and hauling of livestock amount to 50,000,000 pounds of meat annually (costing over $30,000,000) officials at Chicago's Union Stock Yard are taking action to reduce this loss, according to a letter from the Chicago Livestock Truckers' Safety Program committee.

"Program has two phases—better construction of all yarding facilities to prevent bruising, and an educational campaign among all stockyards employees for more careful handling of livestock," the letter states.

The committee is now seeking to extend the program to the hauling of livestock to market by truck, and prizes and awards will be made to truckers with the...
New Partner

"My son, this land I love to you to hold and cherish; manage it well so that your sons, and your sons' sons, may be proud to own it in their own turn."

There might well be words for all men who love the land they live on. For deep in their hearts they want to keep their land in their family—willing to work every acre to incoming generations in better condition than when they received it. Country people of today have become more dependent on the city; for many everyday commodities, for their fun and recreation, for much of what is thought to be a better standard of living. The city's seemingly "greener pastures" lure many a country-bred youngster.

There is, however, one great inducement for a young man to stay with the land. It comes from parents who are willing to share with their children the management of the land; to share the rewards as well as the responsibilities.

Then father and son become real partners—in their business, in their way of life, in their aspirations. The ties of family hold firm. Side by side their roots run deep into this rich American land. Each "partner" is rewarded fairly for what he puts into the family enterprise. Each gets a fair return for the labor, capital and ability which he contributes. And he of the younger generation sees ahead a clear, straight road, and a secure future.

Our interest at Swift & Company in this and other matters of importance to farm and ranch youth, is natural. Our business life is closely linked with the land...and with the young folks who will take over the management of land and livestock in the years to come.

FREE MOVIE FOR YOUR USE! now in color

"A NATION'S MEAT"

Interesting—Informative—Entertaining

Just re-photographed in beautiful natural color

Swift's newest film tells the story of meat from the pasture to the kitchen range. Now available to ranch and farm organizations, F. F. A. and 4-H Clubs, and other groups. 16mm. sound film—runs 27 minutes.

All you pay is transportation costs one way. Write Swift & Co., Agricultural Research Dept., Chicago 9, Ill.

Martha Logan's Recipe for
FRANK AND CORN CASSEOLE

[Recipe for September, 1950]

To Market...

GREEN grow the pastures, the cornstalks grow tall; sleek hogs and fat cattle come to market each fall. Brown eggs for Boston, white eggs for New York, dressed poultry and butter, choice beef, lamb market.

Whatever you market, Swift's always your friend, competing to purchase the products you send.

Feeding Cattle for Profit

by Paul Gerlaugh
Ohio Agricultural Experiment Station, Wooster, Ohio

In October the market price difference between choice and common slaughter steers is twice as wide as in May. This is due to fluctuating cattle supply, not changing meat demand. The feeder who buys medium or common steers in the fall to feed for the spring market makes no mistake. The man who produces common feeder steers makes a mistake. Last fall choice feeders cost us $43.00 per head more than common steers (when both weighed about 650 pounds). Quality pays the producer well. Lack of quality in feeder cattle, due to lower cost per cwt., invariably rewards the feeder who purchases in the fall, when pastures are emptied, and gives his cattle a five- or six-month feeding period. Choice feeder cattle should be given a choice finish and timed for the summer or fall market. They sell well then.

In an eight-year test, home-grown steers, all of one breed (800 to 900 pounds), dressed 60.3% and yielded carcasses grading 76%, choice. Similarly cared for steers of another breed dressed 58.6% and yielded 59% choice carcasses. However, the lower dressing and grading steers saved 115 pounds of corn and cob meal in making a hundred pounds of feed lot gain. At present prices the saving in feed costs was greater than the reward for higher dressing percentage and carcass grade.

Market topping ability of feed lot cattle is not a safe guide to profitable beef cattle operations. "Pretty is as pretty does" is a much safer beef cattle philosophy to follow in seeking profitable operations.
Erdalith Pressure-Treated Posts
Last 5 to 7 Times Longer

Positively Stop Rot and Termite Losses with these Money-Saving, Clean, Odorless Posts

You make fence building an easier, more economical job when you use Erdalith Pressure-Treated Posts.

The Erdalith pressure-treating process makes these fence posts last 5 to 7 times longer than ordinary untreated posts. That means fewer post replacements, low maintenance costs, and less post-setting work.

Besides, Erdalith posts are dry and clean—safe for humans and livestock. And they make a good looking fence whether painted or weathered to a pleasing blue-green shade.

Erdalith* Pressure-Treating (shown above) has proved its value for 16 years on tens of thousands of post and pole installations. Get your supply of posts now—direct from...

American Lumber & Treating Company
Jacksonville Office: 719 Graham Building
Phone: Jacksonville 6041
Florida Treating Plant at Gainesville

FREE BOOKLET
...telling you all the advantages of Erdalith Posts now available. Write for your copy.

Treatment of pink eye and other eye infections of livestock is easier with this highly practical packaging developed by Lederle Laboratories. It is a plastic squeeze bottom which is supplied with a new sulfon drug which will not cake upon contact with eye fluids, Lederle reports.

best safety records in hauling livestock to the Chicago market.

Florida auction markets could well take a leaf from Chicago's book by instituting loss prevention programs which will supplement work of the Florida Livestock Loss Prevention Committee.

Citrus Feeder Cups Now Marketed by Adams Packing

Those 'PING-PONG BALL' self-feeder cups for dispensing molasses are now available in aluminum and plastic, according to J. L. Coates, sales manager of Adams Packing Association's By-Products Division at Auburndale.

Cups are made of spun aluminum, while balls are of plastic, Coates reports. Threads are standard and the cups can be easily installed by the owner.

Entomologists Are Hired
For Agricultural Supply Company

Two ENTOMOLOGISTS have been employed by Florida Agricultural Supply Company of Jacksonville—a division of Wilson and Toomer Fertilizer Company—according to M. C. VanHorn, general manager.

The two are Herman S. Mayeux of Glenmora, Louisiana, former extension entomologist in the lower Rio Grande Valley, and Edward Carlton Johnson of Pompano Beach. Mayeux will be technical advisor on all products and product development work, while Johnson will be field representative of entomology.

Mayeux was born and reared on a Louisiana farm and earned his BS and MS degrees at Louisiana State University. He also carried a research fellowship at LSU in agricultural entomological work.

Joining the Army in 1942, he was in active service for five years. Combat duty as a field-artillery captain took him into...
There's nothing like it ... absolutely nothing

You don't need bone meal ... calcium ... trace elements or so-called minerals when you use Vit-A-Way.

More and More LIVESTOCK OWNERS AND FEED MANUFACTURERS are changing to the Famous VIT-A-WAY MINERAL FORTIFIER, the Richly Fortified Mineral-Vitamin Supplement.

In Your Feeds—On The Range—The Year 'Round.

COSTS SO LITTLE ... DOES SO MUCH.

LAKELAND CASH FEED COMPANY, LAKE LAND, FLORIDA, Distributors
CONTROL of External Parasites Means Regular Handling, Proper Use of New Insecticides, Parasitologists Report

Different dilutions of DDT, BHC, lindane, other chemicals are needed to control flies, mosquitoes, "wolves", lice and other external parasites on cattle, swine and horses

by Leonard E. Swanson and Edward G. Batte, Parasitologists Florida Agricultural Experiment Station

EXTERNAL PARASITES, such as houseflies, stable flies, horn flies, mosquitoes, deer flies, horseflies, various lice and ticks, present a serious problem to the dairy and beef industries of Florida. These pests are most prevalent in the spring and summer months; however, in the warm Florida climate many are a problem the year around. Deer flies and horseflies are the pests which may be considered strictly seasonal in their appearance and disappearance; they are most troublesome in the late spring and summer months. Ox warbles, or wolves in the backs, technically known as Hypoderma lineata, appear in the backs of cattle in November, December and January, but the flies of these grubs pester the animals during the months of February, March and April, depending upon weather conditions.

Other insect pests which concern cattlemen are with us the year around, even though they may appear seasonal in that larger numbers are noted in the warmer months. These pests can be effectively controlled, with the exception of houseflies and deer flies, in dairy and beef herds, but one must be thorough in his application of insecticides and careful in selecting the most effective material which will kill the insects yet not injure the animal or pollute the human food products derived from animals so treated.

Barns, outbuildings, shrubs, wet areas and other resting places and breeding areas must be treated or destroyed for complete control. Practice rigid sanitation of your premises.

Equipment is essential in effective control of external parasites. To do a very thorough job of spraying cattle and barns, a power spray machine is needed; however, a small portable power spray rig will suffice unless large herds are involved. The price of the equipment and material used is a small item compared to the expense of gathering and handling the animals; therefore, a good outfit will insure a more thorough job of spraying and necessitate less handling of the cattle.

Insect-free animals are contented, healthy, grazing, resting and chewing their cud instead of bunching and fighting these pests and will pay dividends in the form of more milk and beef and better calf crops.

Cattlemen should acquaint themselves with the habits and breeding places of these insects which torment their animals.

Lice and Ticks . . .

Lice spend their entire life cycle on the host animals. The eggs, immature stages and adults may be found at any time of the year.

Cattle Lice varieties are given below.

1. Sucking lice which feed on blood, such as: long-nosed ox louse found on head, neck, brisket; short-nosed ox louse found on head, neck, brisket; blue louse found in rings on face, muzzle, and around the eyes; African tail louse found principally in brush of tail and around the hind parts.

2. Biting lice which nibble on skin and hair, causing itching and irritation, include the little red louse found on shoulders, withers, neck and ridge of the back.

You can recognize lice-infested cattle when animals lose flesh, rub against posts and trees, lick themselves and chew their tails (a sign of tail lice).

Hog lice represent only one species and it does not attack other animals. Hog lice are found on inside of upper part of legs, in folds of skin about the neck, and inside of the ears.

Lice on horses and mules include only one species of biting lice and one of sucking lice. Both kinds are most prevalent about the head, neck, withers and the base of the tail.

In Florida, ticks are principally pests of cattle, especially range cattle. The most common ticks are gulf coast tick; lone star tick; black-legged tick; fever tick.

Flies Also Problem . . .

Horn flies are blood suckers, and are found on withers or back but move under body when cold or during the rain. They spend their entire time on animals except when laying eggs, are more numerous on dark colored animals, and on tick animals. They breed in fresh manure.

The stable fly or Dog fly is a bloodsucker with a severe bite and is present throughout the year. It breeds in decaying vegetable matter such as new straw piles, refuse from packing sheds and citrus refuse.

Houseflies do not bite but irritate animals and may spread disease. They breed in fecal matter and decayed vegetable matter.

Tabanids include both houseflies and deer flies, and about 30 species found in Florida in all. They are bloodsuckers. Breeding in wet areas, tabanids lay eggs on grass overhanging water and their larvae feed on aquatic animals. While tabanids are troublesome only during the summer months, the only effective control measure to date is efficient drainage of swamps and sloughs and proper control of streams.

Other Pests . . .

Warbles (Wolves or Grubs) are represented by only one species in Florida. In 1929 this pest extended only as far south as Gainesville but has now spread over the entire state.

Not yet found in Florida is the South American Skin Maggot which extends from Central America to the tip of Argentina and attacks cattle, deer, birds, and man, but not horse or hog.

Female flies (Continued on page 65)
Yes . . . Mrs. Brahman and Rancher Smith really know how to raise healthy calves—and how to keep healthy cows. MAXCY’S RANGE MINERAL provides the bone-building elements like calcium and phosphorus (taken only from high grade steamed bone meal) and in addition the minor elements which keep cattle sleek, healthy and in good breeding condition the year round.

And don’t forget—you need to use MAXCY’S CATTLE PELLETS during the winter months when grass is low in proteins.

Buy from your Local Dealer:

- Farm & Ranch Supply Co., Bartow, Florida
- Samsell Farmers Supply Store, Weeki Wachee, Florida
- Burgess Supply Co., Okahumpka, Florida
- Parr’s Feed Store, Ft. Myers, Florida
- F. W. Farr Feed & Seed Store, Sebring, Florida
- Agricultural Insecticide Co., Belle Glade, Florida
- Timley’s Checkerdock Feed Store, Arcadia, Florida
- Trayman Fertilizer Co., Ft. Pierce, Florida
- Stuarts Feed Store, Stuart, Florida
- Ideal Supply Co., Inc., Ft. Pierce, Florida
- King Ideal Supply Co., Vero Beach, Florida
- Vandergrift & Williams, Pahokee, Florida
- McLean & Wood, Ellenton, Florida
- Saraota Feed Company, Sarasota, Florida
- Goodwin’s Feed Store, Ft. Meade, Florida
- Arcadia Orange Blossom Feed Store, Arcadia, Florida
- Davis Feed & Supply, Wanchula, Florida
- Nicholson Supply, Bowling Green, Florida
- Yoeman’s Feed & Farm Supply Store, Lake Wales, Florida
- Thornton Feed Store, Sulphur Springs, Florida
- Koons Groceries, Brooksville, Florida
- William’s Feed Store, Brooksville, Florida
- Davenport & Charman, Orange Springs, Florida
- Merser Feed Store, Floral City, Florida
- Dinkins Feed Store, Dunellen, Florida
- Stafford & Ergott, Chiefland, Florida
- Vaughn Feed Store, Williston, Florida
- Yates Feed & Supply, Ocala, Florida
- Biffa Supply Co., Sparr, Florida
- Cook Company, Ft. McCoy, Florida
- Harrell’s Feed Co., Lake Wales, Florida
- Kissimmee Feed Store, Kissimmee, Florida
- Willingham’s Feed Store, Haines City, Florida
- St. Cloud Cash Feed Store, St. Cloud, Florida
- Meeker Bros. Feed Store, Clermont, Florida
- Edge Feed Store, Groveland, Florida
- Hood Feed Store, Leesburg, Florida
- Godwins Grocery, Coleman, Florida
- Sparkle’s Feed Store, Sumterville, Florida
- Fulk’s Feed & Grocery, Center Hill, Florida
- Gant’s Feed Store, Webster, Florida
- Crum’s Feed Store, Bushnell, Florida
- Farmers Feed & Supply Co., Dade City, Florida
- Wall’s Feed Store, Zephyrhills, Florida
Fertilization Grows Fish
In 4-H Club Lake Project
Near Camp McQuarrie

FOLKS WHO RAISE corn, cabbage and citrus in the lush area near Astor Park on the border of the national forest—and who have seen a "dead lake" come to life—are prepared to switch from agriculture to pisciculture.

Their forefathers taught them that, through fertilization, they could grow lushier crops and even raise thousands of juicy steaks per acre of land. But their forefathers didn't know—and neither did they until recently—that the same principle applies to fish.

"The fact is," commented Dr. B. R. Fudge, for 18 years associate biochemist with the Citrus Experiment Station, University of Florida, and now chief horticulturist for the Wilson and Toomer Fertilizer Company, Jacksonville, "where we used to fish to make fertilizer, now we're using fertilizer to grow fish."

Some startling facts and figures have been revealed by biologists and conservationists who for the past year have been conducting an experiment in lake fertilization at Camp McQuarrie, near here.

Crooked Lake, a 32-acre body of water which, a year ago, yielded only an occasional black bass which would be so undernourished it was hardly fit to eat, is now teeming with fat and sassy bass.

A federal biologist estimates that the lake, which would normally yield 20 to 30 pounds of fish per acre, may average 700 pounds of fish per acre before the program is completed.

It all started back in May 1949 when Howard Bisland, biologist for the Soil Conservation Service, United States Department of Agriculture, was giving some 4-H lad instructions in soil conservation at Camp McQuarrie, which is on Crooked Lake. Bisland was discouraged by the seeming lack of fish in this crystal clear lake and he suggested to Bob Norris, agricultural agent for Lake County, that fertilization might help.

Norris, an outstanding veteran county agent who has been instrumental in the development and success of Camp McQuarrie as a 4-H Youth Center for Central and South Florida, called his old friend, Dr. Fudge. Fudge was enthusiastic over...
the idea and his firm agreed to contribute fertilizers.

With the assistance of Soil Conservation Service technicians from the Lake Soil Conservation District, on May 20, 1929, three tons of fertilizer were scattered in the lake. Additional applications were made each month after that until June, 1930, a total of sixteen tons has been deposited. U. S. Department of Agriculture Forest Service agents assisted in the project.

"Prior to fertilization," said Bissland, "Crooked Lake supported little plant growth. A few months after fertilization began, chlorophyllous plant life began growing around the edges of the lake. Plankton, the small animal and plant organisms that float or drift in the water and are basically essential to small fish, reproduces rapidly. The color of the water changed from clear blue to greenish blue.

"A year ago, at daybreak, the surface of Crooked Lake would be as smooth as a mirror on a calm day. Today, it is alive with leaping fish. We have evidence to prove that the fishing is really good and steadily improving. We'll have a more conclusive report to make in another year."

Just a year from the day fertilizer was first introduced to the lake, Bissland and his associates made several seining tests. They found a good reproduction of Bluegill and fingerling black bass in the net on each dip. This test, Bissland said, shows that the lake is in good balance and that nature is doing an excellent job of reproduction—with the aid of fertilization.

Jeff Hills, field representative for the fertilizer company, said he recently made one round of the lake in a skiff, at high noon and with a hot sun. It took him 90 minutes. He returned to the docks with seven black bass, averaging about a pound and a half apiece. Adam Niskanen, veteran caretaker at Camp McQuarrie, says that a number of ten and 12 pound black bass have been taken from the lake in recent weeks. Only last week, the 4-H boys at Camp McQuarrie caught enough bass and bluegills in a single day to feed 140 people at a fish fry.

"The normal yield of a lake this size," Bissland said, "is twenty to thirty pounds of fish per acre. Through fertilization, properly directed, we can kick this average up to seven hundred pounds per acre. That sounds incredible but I have facts and figures to prove it.

"One of the reasons for this tremendous increase in yield is because here in Florida we have a twelve-month growing season. The waters of our inland lakes rarely become cold enough to retard fish growth. "Sportsmen are keenly interested in this program because it is highly important that a fertilized lake be regularly fished in order to maintain balance."

All fertilizers are not developed to the same quality standards

That is why the NACO Pasture Program with its higher nitrogen, mineral content more than justifies the additional cost... in larger healthier cattle and a higher calf yield.

More and more successful stock farmers are proving that you get more profits in less cost per pound on beef with NACO’s Pasture Program.

Let us explain the NACO Pasture Program and COMPARE RESULTS!
FOR SALE—Sons of King Grey that will please the most discriminating breeders. Visit us at Brighton and see these herd bull prospects.

KING GREY
Spans 1200 Miles...

across the Southern United States to further improve the excellent beef type Brahman herd at Palacios, Texas.

After spending the winter and summer with 75 selected cows of Manso and Imperator breeding at Durrance Ranch he has gone to spend the summer beside the breezy shores of the Gulf of Mexico with 44 selected Sartwelle cows of Imperator, Silver King, and Aristocrata breeding.

A portion of the calves produced from this mating will return to Durrance Ranch at weaning time, and there will further strengthen the beef type bloodline found in this herd.

We invite you to investigate the lineage of the top winners in today's Brahman shows. You will find they invariably trace back to cattle of this bloodline. Write for our illustrated booklet.

DURRANCE RANCH
Florida Home Beef-Type Brahman

DURRANCE RANCH
FOR SALE—Sons of King Grey that will please the most discriminating breeders. Visit us at Brighton and see these herd bull prospects.
4-H Workers Help Build Newest Camp
Youngsters pitch in with county agent near Lake Placid

Nearly 20 percent of the $80,000 needed for southern Florida's new 4-H camp near Lake Placid has been raised—and three groups of campers have already used the new site, according to Kenneth McMullen, district extension agent.

"We're glad to report that five cabins, a leader's cabin, and a farm shop building are completed and wired for electricity," McMullen said. "A well and pump are installed, a road leads to the camp and the parking area is surfaced with clay. Latrines are started and the playground area is cleared."

Development of the camp hasn't been limited to contributions of money. During a typical week of camp this summer one county agent was laying block for a new cabin, another was claying paths, another was clearing palmettos—all of them assisted by 4-H youngsters between 10 and 16 who wanted to do their part in building the camp.

4-H members themselves have contributed more money than any other group toward the $14,814.70 already raised toward the $80,000 which will be required to complete the camp.

The youngsters, many of them from outside the territory served by the camp, have given $613 toward a quota of $10,480. McMullen reports.

Cattlemen's associations are close behind, having given $434.6 toward a quota of $12,000. The cattlemen have been asked to provide enough money to build the large building which will be used as a hall for the camp and as a meeting place for agricultural conferences.

Other contributions to date include $48 from Farm Bureaus, $610 from Kiwanis Clubs, $910 from dairy organizations.

Work and play, good food, instruction and cleanliness are stressed at 4-H Camps as these pictures taken at the new camp near Lake Placid show. Youngsters are from DeSoto and Pasco Counties. Staff at time photo was taken included, left to right, Extension Citriculturist Fred Lawrence of Gainesville, Pasco County Agent J. F. Higgins of Dade City, DeSoto County Agent W. L. Wood of Arcadia, Don Cannon of San Antonio, Dorsey Sanders of Gainesville, and Don Lander, camp superintendent.

For September, 1950
O'NEAL Chairman of FSCA Parasite Group; Foresters Told to Fix Cut Fences

Coulter issues strong directive to forest fire fighters on fence cutting; $9500 needed annually for research program

Parasite research should be spurred and fence damage by forest fire control agencies should be reduced as result of action reported by Irlo Bronson of Kissimmee, president of the Florida State Cattlemen's Association.

Knox O'Neal of Punta Gorda has been appointed chairman of the FSCA special committee to raise funds to underwrite "Project 554" of the Florida Experiment Station at Gainesville—a parasite control project—Bronson said.

And a letter from C. H. Coulter of Tallahassee, State Forester, states that Florida Forest Service employees who have to cut fences to extinguish fires have been instructed to repair them immediately afterward.

Members of the "Project 554" committee in addition to O'Neal are Roscoe Bass of Avon Park and Dr. Carey Carlton of Arcadia. It will be the committee's job to implement the project which calls for a $9500 budget each year for five years.

Project was initiated by the Eastern Brahman Association after Dr. Leonard Swanson of the Experiment Station spoke to the association's directors on the parasite problem, and President L. E. Fugle said he was gratified to see the FSCA support the program in a tangible way. "Already our own appeal for support has resulted in several voluntary contributions from our own membership," Fugle said.

"All of these contributions will be cleared through O'Neal's committee and none of the money will be turned over to the Experiment Station until the project can be assured. If sufficient money is raised, research will be conducted to develop new anthelmintics (worm killers), to determine life cycles, and possibly to develop chemical treatment of pastures to control parasitic organisms.

A voluntary assessment of 10 cents per head on registered cattle and two cents per head on commercial cattle was suggested by the Brahman association; however the FSCA left details of the group's participation up to the committee.

Cutting of fences by Forest Service personnel fighting woods fires was brought to Coulter's attention by T. L. Raney, cattlemans of Silver Springs and secretary of the Florida Board of Forestry.

"... we have sent the attached memorandum to everyone working with the Florida Forest Service," Coulter wrote FSCA. "Briefly it calls attention to the need for looking after the cattlemen's interest and not cutting the fence where at all possible. Should it be necessary to cut the fence, it should be immediately closed up before the equipment leaves the fence at least in temporary condition. Then when the fire is suppressed, repair the fence as permanently as possible and notify the landowner."

FSCA Directors Will Meet Within Few Weeks

Directors of the Florida State Cattlemen's Association will meet within the next few weeks, President Irlo Bronson of Kissimmee has announced.

Business will include at least two reward applications and a report by Vice President Ben Hill Griffin of Frostproof on the general council meeting of the American National held at Denver August 23 and 24.

The Denver session was a special meeting to set American National policy on meat ceilings and rationing. The general council, which is also the American National public relations committee, is composed of the presidents of each of the affiliated state organizations. Griffin attended in place of Bronson, who was unable to make the trip.

Sanitary Board Gets Two New Members

Carl E. Barber of St. Cloud and John H. Turner of Arcadia have been appointed to the Florida Livestock Sanitary Board by Governor Fuller Warren, replacing Henry O. Partin of Kissimmee and Dave Turner of Bradley Junction.

The two new members are cattlemen and Turner is a director of the Florida State Cattlemen's Association representing DeSoto County.
GREEN'S FUEL brings
Natural Gas to Your Home
WHEREEVER YOU LIVE!

Modern, dependable, efficient gas service. Non-poisonous — economical — convenient. Storm-proof tank systems, installed underground or above ground to suit your needs.

GREEN'S FUEL GAS SERVICE is STORM PROOF—NO POWER FAILURES

Ernest L. Aman
(Western Hillsborough County)
DeSoto Gas Company
(DeSoto County)
ARCADIA 609 East Oak, Phone 13
J. B. Green Plumbing and Equipment, Inc.
(Sarasota County)
Sarasota Broadway and Green Streets, Phone 2785
Green's Fuel of Florida, Inc.
(Eastern Hillsborough, Pasco, Polk Counties)
Lakeland 905 South Florida Avenue, Phone 55-961
Plant City 1005 East Reynolds Street, Phone 219
Lake Wales 520 N. Scenic Highway, Phone 22-352
Dade City 497 North 7th St., Phone 18-Green
Green's Fuel of Gainesville
(Alachua, Bradford, Columbia, Dixie, Gilchrist, Hamilton, Lafayette, Madison, Sumter, Taylor, Union, Western Half of Clay and Putnam Counties)
Gainesville 618 West University Ave., Phone 5651
Bi-County Fuel Company
(Hardee County)
Wauchula 607 W. Main St., Ph. 13

F. A. Harrison Gas Service
(Bradenton) 3301 - 14th Street West, Phone 27-781
Indian River Gas Company, Inc.
(Brevard, Indiant River, Martin, Okeechobee, St. Lucie Counties)
Melbourne 363 New Haven Avenue, Phone 8
Fort Pierce 450 South Fourth Street, Phone 884
Moody Brothers
(Charlotte, Collier, Glades, Hendry, Lee Counties)
Fort Myers 925 Cleveland Ave., Phones 421-261
Natural Gas and Appliance Company
(Marion, Orange, Seminole, Sumter Counties)
Orlando 125 S. Orange Ave., Phone 2-1919
Ocala Magnolia and Sixth Streets, Phone 762
Winter Garden 125 West Plant Street
Sanford Florida State Bank Bldg., Phone 1292
Parks Furniture Company
(Osceola County)
Kissimmee 22 Broadway, Phone 2171
Ridge Fuel Company
(Highlands County)
Avon Park Jacaranda Bldg., Ph. 195

See Your Nearest Dealer
Foster Says Bedding Aid To Pastures

DeSoto County man combines cattle with specialized farming

DID YOU EVER HEAR OF "upside-down" soil? And did you ever hear of "bedding" pastures?

Probably not, unless you know Dale Foster of Arcadia whose productive DeSoto County ranch and farm is being developed with these unusual theories in mind.

Foster's theory of upside-down soil is based on the fact that a type of marl underlies his property beginning about 22 inches below the surface.

"All our fertility starts at this 22 inch level and terminates at the bottom of the marl, which is about three and a half feet down," he explains. "That means that we have the problem of bringing this marl to the surface where it will be some good to us in growing grass for cattle—or raising crops—as the case may be."

Bedding, which of course means making artificial ridges with law-lying land between them, (something like corrugated steel roofing in appearance) is designed partly to bring the marl to the surface and partly to keep water from standing on the soil and souring it by preventing circulation of air.

"You know this flat prairie and palmetto country of ours," he says, "and you know how an inch or so of water will stand after heavy rains until the sun finally evaporates it, leaving the soil hard and sour. Well, that's a big reason for planting your pastures in beds."

Foster owns and controls some 30,000 acres southeast of Arcadia on both sides of the highway between Arcadia and Olga. About 3000 acres are improved, including approximately 1500 acres in Pangola grass and some experimental plantings of other grasses on a small basis.

He's enthusiastic about Carib grass, of which he has possibly 50 acres planted in July and August of 1949.

"We put cows on this pasture last November and left them there until about May 1, even though we had a very dry winter in this area," Foster reports. "The grass has come back as you see it since then."

"Bedding serves a variety of purposes for Dale Foster. It brings fertile material which underlies his land to the surface, it aerates the soil, prevents water from standing and reduces frost damage. Upper panel shows recently deepened low areas between beds and some of the Angus cattle which he is crossbreeding. Lower panel shows the modified plow which makes the beds."

"We had one or two freezes here last winter, but the Carib stayed green in the..."
Farming as well as cattle ranching is carried on by Foster, with the farm operations in bulbs, winter vegetables and the like working smoothly with the pasture-building program.

Fields will be fertilized, bedded and planted to crops, then reworked and planted with improved grasses after crops are made or lost. Specialized farming in a somewhat hazardous occupation financially, Foster is glad to have his cattle ranching to add greater stability to his overall operation."

Beds are made with a specially adapted Athens plow, pulled by a heavy tractor, with the average bed running a foot to 18 inches above the intervening low spots. From his experience, Foster believes the beds cannot be too high—the higher they are, the better the grass, he finds—although he's not sure whether to attribute this to getting the mull up on the surface or to better water circulation in the soil. With his equipment he can bed 17 acres of cleared land in a day.

For his palmetto clearing, Foster uses a special palmetto plow similar to those used elsewhere for cutting roots under the palmettos. He's sure that removal of Palmettoes should precede drainage because a casual look alongside his ditches shows palmettoes growing four and five times as large there as on the more poorly drained land a few yards away.

Foster's long-range pasture program involves units about 640 acres in size, divided into four large tracts plus a small area in the center where cattle can be gathered, fed molasses, and minerals, watered and otherwise cared for. His program involves rotating these 60-acre tracts, allowing cattle access to the small handling and feeding area at all times.

Although this method of cattle and pasture control involves lots of fence, Foster believes it's worth it from the handling standpoint alone.

"We don't plan to build pens in every pasture," he explains, "and the handling we give these cattle regularly means that we can move them with a minimum of help when they have to be moved to the pens."

Any cross is going to give more beef for less trouble, Foster says in explanation of his crossbreeding program which involves Angus, Herefords and Brahman. He crosses them both ways—Brahman bulls on grade Hereford and Angus cows and English bulls on Brahman cows—and finds the results about the same.

Rodeo Queen Selected

Miss Sonya Curry of Fort Myers won the title of Rodeo Queen during Arcadia's recent Fourth of July rodeo.

**GOOD GRASS**

but not perhaps, good forage

**Feed Trace Minerals the Easy, Effective Way in Morton's Trace Mineralized Salt**

**YOU** can't always tell good grass by the way it looks. Even the greenest, most nutritious looking, may be lacking in the essential trace minerals. And there's no way of knowing without costly, scientific analysis.

Wind, sheet, and gully erosion . . . over cropping . . . and improper use of land have taken much of the trace minerals from our soils. Consequently, they are not in our crops. And livestock aren't getting them for maximum health and thrift.

Livestock need trace minerals in combination with salt for efficient digestion and assimilation, for good growth and reproduction and for bigger gains with low feeding costs.

*Here's why.* The chlorine of salt helps make the hydrochloric acid needed to digest protein. The sodium of salt is needed to digest fats and carbohydrates. The trace minerals—iron, copper, manganese, cobalt, and iodine, are needed for the proper functioning of the enzyme, vitamin, and hormone systems, the basic life activities, that convert feed nutrients into blood, bone, muscle, tissue, and milk.

The simple, easy, economical way to feed trace minerals and salt is Morton's Free Choice Trace Mineralized Salt. It costs only a few cents more per animal per year. It pays off in terms of faster growth, lower feeding costs, and healthier young, bigger profits. Ask for Morton's Trace Mineralized Salt by name . . . feed it free choice to all your livestock.

- **IRON AND COPPER** unite to make the red blood corpuscles that carry oxygen needed by the body cells to absorb and utilize feed nutrients.
- **COBALT** sets up a vigorous condition in the digestive tract for better assimilation of feed nutrients.
- **MANGANESE** is important to sound bone growth, to normal reproduction and to good milk flow in mother animals.
- **IODINE** is needed for thyroxine in the thyroid gland which controls all bodily activity.

**Make This Simple Test**

Next to your regular salt supply, put a few pounds of Morton's Trace Mineralized Salt. You'll be surprised how your animals will go for the trace mineralized salt, showing their need for the small amounts of iron, copper, cobalt, manganese, and iodine it contains. Send for free booklet and folders.

MORTON SALT CO., Box 781, Chicago 90, Ill.

**MORTON'S FREE CHOICE TRACE MINERALIZED SALT**

For Healthier, Thriftier Livestock
Use of Chain Simplifies Clearing Scrub Oak and Pine Land in Hernando

Norris adopts system used in clearing mesquite in Texas; Demonstration held at Twin County Ranch by Gilbreath

Land clearing costs have been reduced three-fourths at Norris Cattle Company's Twin County Ranch near Brooksville due to a new method developed in Texas and brought to Florida by Lewis Gilbreath, new Norris assistant general manager.

A heavy chain 250 feet long, pulled between two Caterpillar D-7 tractors, levels jack oaks and young pines at a maximum rate of 12 acres an hour—and 50-odd citrus, marion and Hernando County cattle owners were impressed with the process at a public demonstration held during July.

"Theory behind the new process is that all the power in a D-7 isn't needed to clear relatively small trees," Gilbreath, whose headquarters are in Ocala, states. "We make this power go further by connecting two tractors with a chain which enables them to clear an area about 80 feet wide."

During the demonstration the D-7's appeared to be subject to no strain at all as they were driven across a quarter mile strip which included some trees up to a foot in diameter. All trees were leveled on the first swing, but the tractors were driven back over the same course, swinging the fallen trees back in the opposite direction and completely breaking most of the roots.

The tractors are also used to pile the vegetation for burning after the trees have been knocked down over the area to be cleared. Joe Culpepper, foreman at Twin County, said trees are leveled at an average daily rate of 60 to 80 acres, while piling is done at the rate of about 15 acres daily.

Gilbreath said he doesn't know how well the chain system will work where heavier soils are involved but that Norris has used the process in several locations with uniformly good results.

Use of the chain in land clearing was Gilbreath's own invention while he was county agent in Alyce, Texas. Those familiar with this part of southern Texas know that hundreds of thousands of acres are now covered with low-growing, brushy-looking mesquite.

Gilbreath knew from his history books that the mesquite had followed buffalo grass which once made this one of America's great grazing areas, and he believed that if mesquite could be removed cheaply enough, improved grasses would grow as lushly as the buffalo grass and wouldn't be killed out by heavy grazing.

The chain experiment worked well in that area, and when Gilbreath was in Florida early in 1949 he suggested the idea to Norris General Manager R. G. "Bob" Herrmann and to G. A. Furgason, who is in charge of equipment. They had the chain in operation before Gilbreath joined the Norris organization last Spring.

Piling is somewhat simplified by using the chain. Since the slick in the chain drags many feet behind the tractors, trees are pulled in toward the center in a rough windrow.

Culpepper says cost of pushing trees down is reduced about three-fourths by the chain method, although piling costs are only slightly reduced.

Cost of the chain used in the Norris work was about $900, says Gilbreath. Cables may be used, but are subject to snapping, where the chain is virtually unbreakable.

Attending the demonstration were approximately 50 interested persons from the three counties. Arrangements were made by Gilbreath and Hernando County Agent Harry Brinkley.

Kirk Announces Tri-County Show

Dr. W. C. Kirk, chairman of the Hardee County Cattlemen's Association's fat cattle show committee, recently announced that the forthcoming event will be a tri-county show for fat cattle taking in junior and senior exhibitors from DeSoto and Highland counties in addition to Hardee.

Kirk said breeding classes will be open to state-wide exhibitors and all fat cattle shown must be offered for sale. Jack Childs has been appointed chairman of the program committee.

Hairy Indigo Liked

The use of Hairy Indigo as a pasture grass and as a cover crop for citrus groves is on the upswing in Orange County, says County Agent F. E. Baetzman. This season 12,000 acres were planted to this legume in the county, as compared with 3500 acres in 1949.
HERE ARE SOME OF THE BOYS WHO WEAR WRANGLER WESTERN JEANS

GERALD ROBERTS
World Champion All-Around Cowboy 1949

BILL McGUIRE
World Champion Steer Wrestling 1949

HARRY TOMPKINS
World Champion Bull Riding 1949

CASEY TIBBS
World Champion Saddle Bronc Riding 1949

BILL LINDERMAN
Runner-up to World Champion All-Around Cowboy 1949

These titles are based on ratings of the Rodeo Cowboys Association.

These are just a few of the top rodeo stars who wear WRANGLERS.

Blue Bell WRANGLERS are tough and rugged—and comfortable. They’re made of heaviest 11-oz. Sanforized denim. They fit right when you buy them, and keep on fitting no matter how often you wash them. Men’s and boys’ sizes—zipper or button front.

Blue Bell’s new, form-fitting women’s WRANGLER is designed for trim, athletic figures in sizes 12 through 20.

The WRANGLER is the only popular-priced Western jean styled by Rodeo Ben. Like Blue Bell’s Western Jacket, it’s guaranteed the best made, best fitting you can buy, or your money back!

WORLD’S LARGEST PRODUCER OF WORK CLOTHES
BLUE BELL, INC., Greensboro, N. C.

KILL SCREWWORMS—Safely

Use a product which does not contain any chemicals hazardous to the health of your livestock. Cattle LICK screwworm wounds. To be safe, use a product recognized by USDA and State workers.

Use a product of proven effectiveness in KILLING screwworms and PREVENTING reinfestation. Range-tested for over a decade.

USE A COMPLETE TREATMENT

FLORIDA CHEMICAL INDUSTRIES, INC. OCALA, FLORIDA

IN A CAN, TUBE OR JAR—NOTHING ELSE NEEDED—RANGE-TESTED.
FEEDING Potential Good In Florida, Davis Thinks After Santa Fe Experience

98 head produce $34 profit each last winter; British breeding desirable in feeder operation; Feed costs itemized

FEEDING 98 steers last winter brought a net profit of $34.00 per head to Santa Fe River Ranch of Alachua.

That's the figure reported by A. D. Davis of Jacksonville, who owns the ranch along with Mrs. Davis. Steers were all strong in British breeding.

Result of the entire feeding program during which one steer died was roughly, that a $100 steer, plus $50 worth of feed, brought a gross return of $150.

"I think the opportunity for feeding cattle in Florida has great possibilities," Davis says. "The purchasing of heavy-weight calves of predominantly British breeding the day they are weaned and putting them in the feed lot, apparently is the best program for Florida. If the calves are weaned in the fall, as they usually are in this State, they go through a very poor pasture stage and lose weight for the winter months."

Feeding program began at Santa Fe last November 2 when 78 of the steers were placed in the feed lot. 20 additional steers were placed in the lot on November 16.

The group included 20 polled Herefords from A. L. Jackson of Gainesville, nine polled Herefords from Santa Fe itself, 14 Angus calves bought at the Aberdeen-Angus Feeder Calf Sale in Gainesville and held on pasture until the feeding period started, and 49 steers (produced from bred-up native cows by purebred Shorthorn-Hereford bulls) obtained from P. E. Williams of Davenport.

Steers were fed closely confined in the barn, in the style used by Quincy tobacco growers who raise steers for manure. Steers were vaccinated for hemorrhagic and blackleg upon arrival, and the steers which appeared wormy were wormed.

After 70 days the steers were topped out and those that were thought to be fat enough to grade "Good" were marketed, while the ones which were not making any progress were culled. The same process went on about every two weeks until the finish of the period.

It is believed, Davis says, that about 89 percent of the 98 steers graded "Good" when dressed. Only one liver was condemned to the feeder's knowledge, although most steers sold at public auction where no report on livers was available.

Average weight per steer when placed in the feed lot was 490 pounds, and steers stayed on feed for an average of 117.5 days, Davis reports. Feed cost $35.8 cents per day per steer, on the average, and the cost of feed per pound of gain was 21 cents.

Original cost of the steers was $685, feed cost $480, miscellaneous expenses were $65, making a total of $1,330 which represented Santa Fe's investment in the steers. They sold for a total $1,542, making a net profit for the group of $836, or
about $34 per steer.

"We allowed nothing for labor costs," Davis reports, "because we assumed that 100 tons of manure produced by the steers would cover labor costs of about $500."

Attached statistics tell the whole story. "Cattlemen interested in doing some feeding on their own can easily make up a feeding program based on our experience, and that's why we have broken down the amounts of feed into average amounts consumed per animal," Davis says.

Swine Rhinitis Warning Made By Foundation

If pigs sneeze frequently and their snouts later become "pushed in" or twisted, swine raisers should be on their guard, a recent American Foundation for Animal Health bulletin points out.

The bulletin says that excessive sneezing, coughing and a peculiar look to pigs' faces may mean an outbreak of infectious rhinitis. Authorities say the malady appears to be spreading.

"Infectious rhinitis does not kill animals outright," the bulletin reports, "but it may stop gains to the point where hog raising is no longer profitable. Even well-fed pigs fail to put on weight."

"In many instances, farmers have mistaken infectious rhinitis for 'bull nose'. The two conditions appear similar, but bull nose starts from an injury, and infection with barnyard germs," the bulletin continued. "Infectious rhinitis, however, is caused by a disease organism, possibly a virus, which stays in a herd season after season."

"If owners suspect infectious rhinitis, they should call the veterinarian immediately. Prompt control measures are of major importance in holding down losses."

Bigham Sells Holdings To Leesburg Buyer

W. E. Bigham recently sold his entire holdings of land and cattle to Knowles and Company of Leesburg, according to Sumter County Times.

More than 8000 acres of land and between 500 and 600 head of cattle changed hands in the transaction. No purchase price was reported.

Breeding Service Used

A. S. Lawton, county agent of Duval county, reports that 28 members of the artificial breeding association service have bred 1600 dairy cows artificially during the first year of breeding service for the county.
FAT HOGS, Breeding Hogs, Will Show At Ocala and Quincy During September; All-Breed Purebred Sale Set for Ocala

The three swine shows scheduled for Florida during September and October are expected to reflect the increasing importance of the state’s swine industry.

The 12th Annual Ocala Fat Hog and Purebred Swine Show is set for September 18 and 19 in the Southeastern Show and Sale Pavilion at Ocala. Dave Baillie, Marion County Agent will serve as manager of the show.

The Second Annual Fat and Breeders’ Hog Show at Quincy will be held on September 25 and 26 at the livestock pavilion. Show is sponsored by the West Florida Livestock Association of which W. M. Inman of Quincy is president.

At Live Oak, the Third Annual Suwannee Valley Swine Show and Sale is tentatively scheduled for October 2, 3, and 4 with E. K. Laflin as general manager.

Ocala Swine Event Features Auction

New feature of the Twelfth Annual Ocala Fat Hog and Purebred Swine Show will be the auction sale of purebred swine with several breeds represented, according to Dave Baillie, manager of the September 18 and 19 event.

Baillie said that choice boars and gilts from top Duroc, Hampshires, Spotted Poland China, Poland China and O. I. C. herds have been obtained. He feels that this type of sale will appeal to a wide variety of producers and breeders in being able to place their breeds before the public.

“Junior judging and showmanship contests will again be features of this annual event,” Baillie said. “Our aim is still to spotlight the good swine work being carried on by our youngsters,” he continued, “while at the same time recognizing the great contributions being made by purebred and commercial producers.”

This year’s show will have almost the same provisions in rules and premium list as in recent years although a few major changes have been made.

All fat hogs will be weighed on arrival and sold at that weight less a deduction of two percent for shrinkage. Fat class will have placings made through fourth place and additional awards will be made, based on the Danish system.

A Junior exhibitors Champion fat barrow will be selected from the Junior classes (4-H and FFA) this year in addition to having champion barrows selected in all divisions.

Baillie said that in an attempt to emphasize the need for more and better breeding animals, approximately the same amount of cash award will be made for winners in both the breeder and fat junior classes.

Display exhibits on swine production practices will again be made by 4-H clubs and FFA chapters with additional educational features being presented by University of Florida experiment station workers during the show.

Dr. R. S. Glasscock and Jim Pace of the Animal Husbandry Department of the University of Florida and experiment station workers during the show.

Swine show and sale committee is headed up by Beecher Beck as chairman. Members of the committee include Marion Roche, Ben Floyd, George Holder, Sam Love, Baillie, and Carey Robins.

Premium lists, entry blanks, sale catalogs and information may be obtained by writing Southeastern Fat Stock Show & Sale, Inc., Box 404, Ocala, Florida.

Grading Demonstration Set for Quincy Show

Hog grading demonstration will be a feature of the Second Annual Quincy Fat and Breeders’ Hog Show, according to A. G. Driggers, secretary of the sponsoring West Florida Livestock Association. Any club teams will be given the opportunity to practice judging upon request.

The event is slated for September 25 and 26 with the first day set aside for receiving entries and classification of hogs. On September 26 the schedule of events is as follows: hog grading demonstration at 9:00 a.m.; judging of fat hog classes at 9:30 a.m.; judging of all breeder classes at 11:00 a.m.; awarding of all cash prizes at 1:30 p.m.; sale of all fat hogs, plus breeder hogs consigned to sell at 2:00 p.m.

Classes will be provided for 4-H, FFA and Open competition for individual fat barrows, same for pens of three and an open class for pen of ten.

In the breeder show, classes are provided for 4-H and FFA and Open competition for boars and gilts, plus Open class for sow and nursing litter.

Closing dates for filing entries will be September 15. Additional information may be secured by writing A. G. Driggers, County Agent, Quincy, Florida.

New Judging System For Live Oak Show

A modified system of Danish judging will be used during the Third Annual Suwannee Valley Swine Show and Sale, according to Rees Mills, chairman of the judging committee. Show is slated for Live Oak with a tentative date of October 2, 3 and 4.

Complete information on the Live Oak
show is not available at this time but members voted that all animals would be sold according to weight except for grand and reserve champions.

E. K. Laflin was named manager of the show and sale by L. J. Day, president of the sponsoring Suwannee Valley organization, while the inspection committee to check entries consists of S. C. Kierce, chairman, with Mills and Henry Folsom as members.

Aubrey Fowler is serving as publicity committee chairman and John Castleberry is finance committee chairman. L. H. Lewis of Jacksonville will head the buyers committee.

Additional information pertaining to the show and sale may be obtained by writing F. E. Breckenridge, Suwannee County Chamber of Commerce, Live Oak, Florida.

Hampshires, Durocs, Are Shipped to Puerto Rico

Twenty purebred pigs were recently shipped by air from Tampa to San Juan, Puerto Rico, by Gatrell and Moore of Earleton and Carl Zillman of Earleton, according to Marion County Agent, Dave Baillie.

Henry Gatrell and Carl Moore, prominent Duroc breeders, shipped five young boars and five unbred females. The same number of Hampshires of top breeding were shipped by Zillman on the same plane, Baillie said. George A. Wimberly, regional cargo sales manager for Eastern Air Lines, arranged the shipment.

The 20 pigs went to Puerto Rican Future Farmers of America. Sales were arranged by Juan R. Melendez, district supervisor of agriculture in Puerto Rico, with the assistance of A. R. Cox of Tallahassee, executive secretary for the FFA in Florida.

"This first shipment of quality breeding stock out of Florida to Future Farmers in Puerto Rico should open the door for many more shipments," Baillie said.

"Already scores of fine beef and dairy cattle have been shipped from Florida to Latin American nations," he continued, "and there is no reason why our leading swine breeders should not find a ready market for their animals in Latin America and the Caribbean.

Durocs Average High

General over-all average on 68 prize winners was $269 at the recent 6th National Duroc Congress held in Cedar Rapids, Iowa, according to a recent Duroc Association release.

Estimated production of hogs in 1949 was 34,000,000,000 pounds, about nine percent of 1,500,000,000 pounds higher than in 1948, according to a recent USDA release.

12th Annual
FAT HOG SHOW AND SALE
and
ALL-BREED SWINE SHOW
SOUTHEASTERN PAVILION
SEPT. 18 & 19 - OCALA, FLA.

Sponsored by
SOUTHEASTERN FAT STOCK SHOW 
& SALE, INC.

4H Club - - - F.F.A. - - and Adult Divisions,
Classes for all ages and breeds of Purebreds and all weights over 160 pounds in fat classes.
Over $2,000 in Trophies and Prizes offered.
Danish System of Judging in all classes except open breeding classes.

SPECIAL EVENT
There will be a Special Auction Sale of
Registered Swine of several breeds.

SCHEDULE
Monday, Sept. 18, 10 AM - Entries close. 12 Noon - Judging begins on Fat classes. Breeding classes judged immediately following.
Tuesday, Sept. 19, 8:30 AM - Showmanship contest finals.
10:00 AM - Sale of Registered Swine.
12 Noon - Judging contest.
1:00 PM - Fat Hog Sale.

For information, entry blanks and sale catalogues, write Southeastern Fat Stock Show & Sale, Inc., Box 404, Ocala, Florida.

WATER-PROOF

We have had requests for a water-proof sign board to stand long outside wear. The new H2O-PRUF is impervious to weather. The new board is the answer to your outside signs such as POSTED, KEEP OUT, NO FISHING, NO TRESPASSING, ETC. Cut to any size.

CODY PUBLICATIONS
KISSIMMEE, FLA.

Write us for costs, stating size and quantity, and specify our water-proof poster board.
A REGISTERED BRAHMAN SHOW embracing about 100 head from Louisiana, Georgia, and Florida, is assured for the 1950 Southeastern Fair, according to W. T. Bennett, stock show superintendent.

A premium list of $2000, including funds pledged by the American Brahman Breeders' Association of Houston, has been posted, and copies are to be distributed within the next few weeks.

George W. Barnes, district extension agent from Fort Stockton, Texas, will judge the Brahman show, beginning at 9 a.m., Thursday, October 5. Cattle are to be in the barns on Sunday, October 1, and will remain for the duration of the show which closes October 7.

Plans for the show were perfected by Bennett and R. E. Warren, L. S. Harris and T. J. Durrance, Jr., representing the Eastern Brahman association, co-sponsors of the show.

Warren, of Jesup, Ga., and Harris and Durrance, of Bartow and Brighton, Fla., respectively, are members of the EBA permanent show committee of which Sid Crochet of Clewiston is chairman.

The Atlanta fair show will embrace all popular breeds of cattle, but this is the first time a Brahman division has been included.

Among the exhibitors tentatively expected to show at Atlanta are Louisiana State University, Baton Rouge, and Herman Taylor, Natchitoches, La.; Henry O. Partin & Sons, L. S. Harris Ranch, and Mrs. Pat Johnston and Son, Kissimmee; G. W. “Buck” Mann, Jr., W. H. Stuart and J. K. Stuart, Bartow; Norris Cattle Co., Ocala; Durrance Ranch, Brighton; L. E. Fugle, DeLand; Herman Beville, Bushnell; Oakley Murphy, Avon Park; T. P. Chaires, Jr., Bradenton; Lamar Beauchamp, Winter Haven; and A. Duda & Sons, Cocoa.

In addition to the Brahman show, registered Guernseys will be judged September 28, registered Jerseys will be judged September 29 and 30, Herefords will be judged October 3, and Aberdeen-Angus on October 4.

An inter-collegiate livestock judging contest is set for October 2.

Premium lists and entry blanks are available from Bennett, in care of the Southeastern Fair, Atlanta.

Mareeaux Bull Is Leased by M-Bar-M For Breeding Use

TWENTY-FOUR COWS at Dr. R. MacEachen’s M-Bar-M Ranch near Sarasota have been bred to Imperator 699, reserve champion at Baton Rouge in 1949, and owned by A. J. Mareeaux of Kaplan, La., Dr. MacEachen announces.

The bull, which was leased from Mareeaux, has now gone to Durrance Ranch near Brighton for further use before it is returned to the Louisiana herd this winter.
Diesel D7, equipped with a Fleco Root Rake, owned and operated by J. E. Price, J. B. Ranch, Sunniland, Florida, is shown in illustration directly above, clearing new pasture lands in the Everglades. A Fleco Detachable Stumper was used to stump the acreage prior to mounting the Fleco Rake for piling operations.

Note the "stumped" acreage in the background.

FLORIDA LAND CLEARING EQUIPMENT CO.

MANUFACTURERS OF THE Fleco ROCK RAKE, ROOT RAKE AND DETACHABLE STUMPER

JACKSONVILLE, FLORIDA, U. S. A.

P. O. BOX 2317 CABLE ... FLECO

for September, 1950
Let's Get Acquainted...

CONTROL SCREW WORMS

with

BARRY'S PRODUCTS

BARRY'S DERMA-SEAL
(Blackening)
KILLS AND SEALS

BARRY'S SULFO-SEAL
(Non-Blackening)
KILLS AND SEALS

ALL IN SQUIRT-TOP CANS

No Brushing · No Mopping

Half pints, pints, quarts and gallon cans. For your protection look for the signature of W. N. Barry on every label. A Genuine Barry Product bears his signature.

We also manufacture

SMEAR NO. 62
U.S.D.A. FORMULA

Half pints, pints, quarts and gallon cans. At all dealers, or write for full information about these products.

BARRY'S

Wholesale Manufacturers

Drawer E. NEWBERRY, FLORIDA
Angus capacity to produce good beef from good grass has resulted in the registered herd purchased during the past year by Glades Sod Company of Davie. Here Owners Jim Farquhar and Jim Ousley pose with a group of heifers bought last Spring in Kentucky. They have had no trouble so far from heat, and believe that good management practices as exemplified by the mineral box at left will keep the herd in good shape.

500 Angus Feeder Calves Sell Sept. 13
At Gainesville Livestock Auction Market

Perhaps as many as 500 grade Angus calves will sell September 13 at the Gainesville Livestock Auction Market in the third such event sponsored as in the past by the Florida Aberdeen-Angus Breeders’ Association.

Buyers are expected to compete strongly for the black, butt headed, beefy Angus, according to L. K. Edwards, Jr., of Irvine, chairman of the committee in charge of the event. Sale will begin at 1:30 p.m. on the Wednesday date, with the regular Gainesville market auctioneer wielding the gavel.

“Demand is exceedingly good for feeder calves this year,” Edwards reported. “We’re going to have more buyers than ever (34 made purchases last year) and we know of three new out-of-state buyers who will attend.”

As in the past there will be a limited number of heifers included in the consignments—but most of the “blacks” will be steers or weanling bulls ready for steering.

J. P. Ramsey of Micanopy, president of the Florida Aberdeen-Angus Breeders’ Association corroborated Edwards’ statement as to buyers.

“To date we have received inquiries from several Southeastern states, and likewise L. H. Thompson of the Gainesville Livestock Auction Market has been contacted by more out-of-state buyers than he was before either of the other sales,” he said.

Consignors to the sale don’t have to own registered Angus cattle nor do they need to be a member of the Angus association, Ramsey said.

“We expect to have enough Angus calves in Gainesville September 13 to help satisfy the great demand for good feeders,” he reported. “If your grade Angus are good animals with a high degree of Angus breeding, and show only Angus characteristics, you are welcome to sell them in our Feeder Calf Sale.”

Selling costs are exactly the same as at other Gainesville market sales—a straight three percent commission plus a small charge for insurance.

In 1948 the sale averaged about $3.00 more than market and went to buyers from four states. In 1949, despite a generally lower market than in 1948, prices were slightly higher than in 1948.

Prospects for 1950 are that the average will be substantially higher than in 1949. Calf prices paid by feeders and stockers at Florida markets have reached as high as $36.00 per hundredweight compared to the $26.95 top at the 1949 Angus Feeder Calf Sale.

In the two years the sale has been operating, 888 animals have been sold for a total $56,004. 31 buyers took part in the 1948 sale, and 34 made purchases in 1949. Average per hundredweight was $20.15 in 1948 and $20.31 in 1949.

for September, 1950
"All of these calves will come to the auction right off pasture," Edwards says. "Some will be grass fat and will be suitable for the slaughter trade, but buyers of all classes will have a variety to choose from."

While there is no definite list of consignors to the sale, Edwards said he believes most of those who consigned last year will again be offering. Consignors at the 1950 event included:

B. J. Alderman, Grandin; Weldon Brailey, Grandin; Henry Chitty, Gainesville; E. B. Denton, Micanopy; L. K. Edwards Ranch, Irvine; Edwards Cattle Company, Irvine; Billy Gray, Micanopy; L. K. Edwards Ranch, Irvine; Edwards Cattle Company, Irvine; Billy Gray, Micanopy; E. NV. Rush, McIntosh; M. S. Hancock, Floralhame; R. B. Lilly, Floralhame; R. H. Melford, Lowell; Norris Cattle Company, Ocala; J. P. Ramsey and Son, Micanopy; Hbayes and Thomas, Gainesville; Bob Sincl1ir, Gainesville; Simonton Ranch, Inc., Micanopy; L. E. Tanner, Floralhame; Will Whiteshurst, Archer; W. L. Wood, Alachua; D. R. Zetrouer, Micanopy; Ed Gibson, Fairfield; A. E. Reed, East Palatka; J. E. Fannieli, Reddick; E. A. Becker and Son, Orange Lake.

While the western states are still a major source of feeder cattle, Florida has become a national market for both feeders and stockers, and in addition is rapidly developing its own grass and grain feeding operations.

"Our main objective is to show the type of feeder calf which can be produced in Florida by using registered Angus bulls," Edwards pointed out. "We believe it will pay any cattleman to use sires of superior breeding in order to produce a better product for sale.

Hornlessness is a particular advantage in the feed lot, Angus men point out, since bruises are more common when cattle are kept in close quarters. The uniform black coloring is also considered an asset to the feeder, as it is the high Angus dressing percentage (the breed holds the world's record in dressing percentage on individual carcasses in Chicago).

The Florida Aberdeens-Angus Breeders' Association appreciates the help of the following businesses who—due to their interest in the cattle industry of Florida—have contributed to this advertisement:

**Baird Hardware Company**
Gainesville, Florida

**Florida Motor & Equipment Co.**
International Trucks
Farmall Tractors
Gainesville, Florida

**Florida Bank at Gainesville**
Member Florida National Group
Gainesville, Florida

**Johnson Brothers Inc.**
Gainesville, Florida

**Kilgore Seed Company**
Stores All Over Florida

**Plans Proceeding For Purebred Sale**

Plans are proceeding for the sale of registered Aberdeen-Angus which will be held during the Santer All Florida Breeders' Show at Webster November 6, according to Louis Geraci of Lutz, sale manager.

Plants are consigned to the sale, Geraci said. The registered cattle are being offered by Perdido Ranch of Pensacola, Son Lake Ranch of Lutz, J. P. Ramsey and Son of Micanopy, Hollins Wood Ranch of Crystal River, Lusumara Farms of Valrico, North Florida Experiment Station at Quincy, University of Florida at Gainesville and Zetrouer Stock Farms at Micanopy.

This will be the Third Annual Aberdeen-Angus Feeder Calf Sale held at the Gainesville market—and it should be the best. Quality of Angus calves consigned will be better than ever, and present market conditions indicate that prices will be exceptionally good for feeders like these.

Here is your opportunity to buy uniform, black calves which you can feed out or put in your locker. Here is your chance to see the kind of calves grade Angus cows raise on nothing but Florida grass. Most of these calves are six to nine months old. Come and be with us for this sale. For further information contact

**FLORIDA ABERDEEN-ANGUS BREEDERS’ ASSOCIATION**

L. K. Edwards, Jr., Sale Manager
Irvine, Florida
Growth of Angus Breed Reported

Several all-time high records established by the Aberdeen-Angus cattle business marked the end of the 1949 fiscal year for the American Aberdeen-Angus Breeders' Association of Chicago.

Frank Richards, secretary of the national organization, reports that average prices for purebred Angus cattle moved upward while the volume of cattle registered and transferred to new ownership also reached new peaks. More new breeding herds were started this year than in any previous 12-month period in the history of the association, which was organized in 1889.

Reflecting the trend to more grassland farming through the production of better beef cattle, the 1804 Aberdeen-Angus breeding herds founded by new members of the association, states Richards. This compares with the previous record high of 1758 made last year. Angus cattle registered during 1949 totaled 87,772 head as compared with 84,548 the same period a year ago. Transfer of ownership occurred for 75,076 head of purebred Angus as compared with 73,157 in 1948.

In 226 public auctions both bulls and females brought stronger prices with bulls showing the greater gains. Commercial cattlemen competed with purebred breeders in the bull market for upgrading and crossbreeding purposes.

Auction receipts from bull sales totaled $2,113,106 with 3,337 head averaging $634.19. This compares with a 1948 average of $631.90. A total of 15,909 females brought $5,723,317 to average $354.52 as compared with an average auction price of $506.94 in 1948. The over-all average for 14,246 registered Angus this year was $350 as compared with the 1948 average of $352. Demand for Angus continues good in all parts of the country with 18 public sales from New York to Wyoming averaging more than $1000 a head.

National Angus Show Scheduled at Tampa

A National Aberdeen-Angus show will be held in connection with the Florida State Fair next February, Lawson P. Kiser of Valrico, former president of the Florida Aberdeen-Angus Breeders' Association, has announced.

The show will not be large, but the 60 animals which will be exhibited will be more Aberdeen-Angus than have ever before been shown in the state.

Details and prize money for the show have not yet been arranged, Kiser said, but will be soon.
Bronson Talks To 300 in Rain At Putnam Meet

UPWARDS OF 500 cattlemen, wives and children braved the steady drizzle to attend the Putnam County Cattlemen's Association barbecue August 2 and hear President Irlo Bronson of the Florida State Cattlemen's Association tell of FSCA progress during recent months.

Bronson predicted that the state will soon be clear of ticks within the next few months, and mentioned the parasite research which the association has endorsed.

Declaring his intention to retire from the presidency this year, Bronson said "I think that four years is long enough. I hope my friends won't insist on me being president another year."

Tommy Clay, assistant county agent, announced that a 4-H stock show will be held in downtown Palatka November 25 with 20 or 30 4-H members and adults participating.

June Gunn of Kissimmee, secretary of FSCA, paid tribute to Putnam President B. J. Alderman of Grandin for his faithfulness and ability as a member of the state board of directors.

Barbecue was planned by a committee headed by Harry Westbury and including B. P. Miller, Jr., Mark Williams, Raymond Bryan and Raymond Tucker.

Dragline Work...

Shown in action is our Link-Belt-Speeder dragline, one of the newest and fastest machines of its type. Dual-width tracks mean that mats are usually unnecessary. Experience shows we can move "more dirt for the money" with this modern equipment.

Beauchamp & Bice

Day Phone 2-0872, Night 3-8031

WINTER HAVEN, FLORIDA

Advertise Consistently

Registered Aberdeen-Angus

FT. HAMER RANCH
Bradenton, Fla.

HEAVY - 140 LB. - MATS
In Loads of 225 . . . . delivered at $6.50

ODIS COWART
Phone 2124
Center Hill, Florida
Duchess Wins Race
July 23rd

Duchess F, owned by B. R. Farmer of Wauchula, emerged with the Florida Champion Quarter Horse title for the 220-yard distance during the state championship two-day meet at Orlando's Fairview Park on July 23 and 24. Races were sponsored by the Florida Quarter Running Horse Association.

The Wauchula entry, recent winner of a championship race at Del Rio, Texas, won the crown with a time of 12.4 seconds over Dusty Bailey, owned by Harry Westbury of Palatka.

Westbury's entry upset Booger Red, 1949 220-yard state champion, during the first day of racing.

Joe Priest's Thunder P, a Tavares entry, won the 440-yard feature race on the first day and the 350-yard feature race during the second day's card. Priest's horse came through in 23.3 seconds to win over Smokey Mac, owned by L. L. McCormick of Cocoa during the 440-yard feature and beat out Paystreak, owned by T. J. Carlton of Wauchula with a time of 18.3 seconds during the 350-yard feature.

Record of the two-day racing meet with time of winning horse and names of owner and rider, are as follows:

Sunday, July 23

220-Yard Eliminations. First Race—Sadie Mae (12.7), J. T. Rice of Orlando, Jay Matthews up; Juanita T., W. W. Matthews of Lakeland, Clifford Clark up; Florida Clipper, Dr. George Long of Orlando, Carl Myers up;

Second Race—Misty Pat (13.0), C. B. Mott of Orlando, Clark up; Black Pop, Rice, Matthews up;

Third Race—Little Joe Rice (13.8), J. F. Brown of Orlando, Clark up; Champ, Alfred Garcia of Orlando, Matthews up; Sway, Guy Vito of Tampa, M. Terry up;

Fourth Race—Duchess F (12.4), Farmer, Matthews up; Cricket, Rice, Myers up; pride's Crescendo, Gene Pride of Tampa, Clark up;

Fifth Race—Dusty Bailey (12.7), Westbury, Myers up; Booger Red, Rice, Matthews up; Tampa Smokey, Palomino Dairy of Tampa, Clark up;

440-yard Feature. Sixth Race—Paystreak (24.9), Carlton, Matthews up; Scoop Sweep, Priest, L. Tanney up;

Seventh Race—Thunder P (23.9), Priest, Clark up; Smokey Mac, McCormick, Matthews up;

Eighth Race—Little Joe Lipham (23.8), J. G. Lipham of Lakeland, Clark up; Sky Streak, Westbury, Myers up;

Monday, July 24

220-Yard Finals. First Race—Pride's Duchess F, owned by B. R. Farmer of Wauchula, emerged with the Florida Champion Quarter Horse title for the 220-yard distance during the state championship two-day meet at Orlando's Fairview Park on July 23 and 24. Races were sponsored by the Florida Quarter Running Horse Association.

The Wauchula entry, recent winner of a championship race at Del Rio, Texas, won the crown with a time of 12.4 seconds over Dusty Bailey, owned by Harry Westbury of Palatka.

Westbury's entry upset Booger Red, 1949 220-yard state champion, during the first day of racing.

Joe Priest's Thunder P, a Tavares entry, won the 440-yard feature race on the first day and the 350-yard feature race during the second day's card. Priest's horse came through in 23.3 seconds to win over Smokey Mac, owned by L. L. McCormick of Cocoa during the 440-yard feature and beat out Paystreak, owned by T. J. Carlton of Wauchula with a time of 18.3 seconds during the 350-yard feature.

Record of the two-day racing meet with time of winning horse and names of owner and rider, are as follows:

Sunday, July 23

220-Yard Eliminations. First Race—Sadie Mae (12.7), J. T. Rice of Orlando, Jay Matthews up; Juanita T., W. W. Matthews of Lakeland, Clifford Clark up; Florida Clipper, Dr. George Long of Orlando, Carl Myers up;

Second Race—Misty Pat (13.0), C. B. Mott of Orlando, Clark up; Black Pop, Rice, Matthews up;

Third Race—Little Joe Rice (13.8), J. F. Brown of Orlando, Clark up; Champ, Alfred Garcia of Orlando, Matthews up; Sway, Guy Vito of Tampa, M. Terry up;

Fourth Race—Duchess F (12.4), Farmer, Matthews up; Cricket, Rice, Myers up; pride's Crescendo, Gene Pride of Tampa, Clark up;

Fifth Race—Dusty Bailey (12.7), Westbury, Myers up; Booger Red, Rice, Matthews up; Tampa Smokey, Palomino Dairy of Tampa, Clark up;

440-yard Feature. Sixth Race—Paystreak (24.9), Carlton, Matthews up; Scoop Sweep, Priest, L. Tanney up;

Seventh Race—Thunder P (23.9), Priest, Clark up; Smokey Mac, McCormick, Matthews up;

Eighth Race—Little Joe Lipham (23.8), J. G. Lipham of Lakeland, Clark up; Sky Streak, Westbury, Myers up;
FIRST ANNUAL

RODEO

The Bronze Saddle Club of Highlands County will sponsor a RODEO on Labor Day week-end. This will be the first annual Rodeo sponsored by the club at its new arena. $700 in prizes and cash will be awarded to contestants in five events.

SUNDAY & MONDAY
SEPT. 4-5
2:00 p.m.
Located between De Soto City and Lorida

DIAMOND W
RANCH
"MIKE" WEISS, Owner & ACHEMIRE, Mgr.
Registered Brahman

Registered Brahman
ABBA Member No. 20

VOSE BACCOCK
2901 Ponce De Leon Blvd.
Coral Gables, Fla.
Phone 4-1914
Ranches in Hendry & Dade Counties

Registered Brahman
Cattle

VanLandingham Bros.
BELLE GLADE, FLA.

Registered Brahman
E. W. WILLIAMS
Home Phone 726-R-2
Office Phone 359
Box 686, Palatka, Florida

Rodeo Scheduled In Highlands On Labor Day

TWO PERFORMANCES of a Labor Day rodeo will be held Sunday and Monday, Sept. 3 and 4, at the Bronze Saddle Club Arena between DeSoto City and Lorida in Highlands County.

Meanwhile Claude Tindall of Davie, where a midsummer rodeo was held July 9 reported that Pete Clemens of Kissimmee topped the annual event. 4000 persons attended and consumed the better part of two tons of beef in a barbecue which was included in the admission.

Clemens won bull riding, and placed second in bronc riding and calf roping. Bob Stokes of Wauchula topped bronc riders, while Jim Tom Day of Pompano won calf roping and Gene Craft of Arcadia won bulldogging.

According to Mrs. Nell Ashton, secretary-treasurer of the saddle club, the Labor Day rodeo will be the first of what members hope will be an annual series. Seats will be provided for spectators at no additional charge at the club's rodeo arena. $700 in prize money is being offered.

Bronze Saddle Club, which is modeled after similar organizations in Osceola and Brevard Counties was formed two years ago with assistance from Mr. and Mrs. Judge Platt of Melbourne and Mrs. Sybil Partin of Kissimmee. According to Mrs. Ashton, the group hopes to make the Labor Day Rodeo an event of which Highlands County can be proud.

ANGUS FEEDER CALF SALE is scheduled at Gainesville September 13

for September, 1950

FRANKLIN SHOW SUPPLIES

MOST COMPLETE SHOW LINE ON THE MARKET

If you are entering in competition this year you'll need some special show supplies. The Franklin line is so dependable that it can help put your animals in the winning class. No need of being satisfied with ordinary results from the use of ordinary equipment. Go to your local Franklin dealers and look over their stock of breeders and show supplies. Or examine the dozens of top rating items shown in the Franklin catalog. You'll see the latest improved products along with the old reliable items used in putting your entries in the pink of condition to please the eye of both judges and public. Franklin show supplies are the stockman's "beauty parlor" materials that enhance the attractiveness of your animals.

Franklin gives you professional quality. Yet at popular prices.

COMBS, BRUSHES, SHAMPOO, COAT DRESSING, SHOW HALTERS AND LEADS, INSTRUMENTS FOR HOOPS AND HORNS, SHEARS AND CLIPPERS, TATTOOS, ETC. If it's Franklin you can be sure it's the best.

O. M. FRANKLIN SERUM CO.
Denver - Kansas City - Wichita - Amarillo Fort Worth - Marta - El Paso - Alliance Salt Lake City - Los Angeles - Portland Billings - Calgary

ADVERTISE IN THE FLORIDA CATTLEMAN

Home of EMPEROR'S MM 788

MURPHY RANCH
"REGISTERED BRAHMANS"
AVON PARK - FLORIDA
FSCA Prize Winners Are Named

Pat Thomas, Jr., and Gene Griffin winners in FFA competition

Two Florida FFA boys have received $100 each from the Florida State Cattlemen’s Association in recognition of their work in breeding and feeding beef animals, the Florida Association, Future Farmers of America, has announced.

The two are Eugene Griffin of Bartow, who won the breeder prize, and Pat Thomas, Jr., of Quincy, who was named the best FFA feeder in the state. Five other boys won $10 awards for breeding, and an equal number won $10 feeder awards. Awards were based on their accomplishments during 1949-50 school year and previous years.

In the similar contest for 4-H members, which runs on a calendar year, Tommy Chairs of Bradenton won the breeder award for 1949 and Miss Betty Simmons of Archer won the feeder award for the same year. Announcement of results of the 4-H contest has previously been made in THE CATTLEMAN.

Young Thomas has shown fat steers at the Quincy Fat Cattle Show for four straight years, placing each year. He won FFA showmanship in 1948, showed the second best FFA steer in 1949 and the grand champion of the show in 1950.

Griffin has shown registered Brahmans at three Polk County Youth Fairs, at the Florida State Fair FFA show and at the Ocala Brahman Show, winning prizes at each event. His was the best Brahman bull at the 1950 State Fair FFA beef cattle show.

Runners-up to Griffin in the breeder competition were Bobby Woodward and Don Porter of Quincy, H. F. Wiggins, Jr. (last year’s top feeder) of Live Oak, Andrew Jackson of Venus and Albert Plant of Madison.

In the feeder competition, runners-up to Thomas were Mort Welling of Fort Pierce, Lawrence Croft of Live Oak, Bobby White and Joe Mixon of Williston and George Johnson of Quincy.

Each of the runners-up received $10 scholarships to the state FFA convention in Gainesville.

Awards were set up by the Florida State Cattlemen’s Association in 1947 to encourage work with beef cattle by 4-H and FFA youngsters. “Breeder” awards go to youngsters who own registered bulls or females, while “Feeder” awards go to boys who make good records with fat steers.

Winners are selected by the state 4-H and FFA organizations, not by the FSCA.

Pearce Buys Land At Tallahassee Sale

Austin Pearce, Okeechobee cattleman, is now the largest individual landowner in Glades county after buying more than 1,100 acres at a land sale in Tallahassee recently, according to the Okeechobee News.

Pearce purchased the land at prices ranging from $60.25 to $100.25 per acre, bringing his holdings in the county to 15,000 acres. Land was owned by trustees of the internal improvement fund, and was sought by numerous buyers.

Hardee Cattlemen Meet

L. Grady Burton was featured speaker for a recent meeting of the Hardee County Cattlemen’s Association held at Zolfo Springs. Members of the Wauchula Kiwanis Club were guests of the cattlemen.

Pat Thomas, Jr., of Quincy won the FSCA award as best FFA feeder. He is shown with the Hereford steer which he showed to grand champion at the Quincy Fat Cattle Show last January.

The Florida Cattleman
Pulp Production
Near 150,000 Tons in 1949-50

Nearly 150,000 tons of citrus pulp were processed during the 1949-50 season and all of it found a ready market, according to James Key, manager of the Citrus Processors' Association.

"Stocks have moved freely this season, but manufacturers generally have taken into consideration the amount which would be required for the summer months during which no more citrus pulp will be produced and they have endeavored to warehouse sufficient stocks to assure a constant source of supply to their customers," Key said.

Demand for the pulp has increased steadily each year, Key pointed out. Production facilities have been expanded accordingly and are being expanded still further this summer to keep pace with expanding markets and the evidently increased demand for this item of feed next year.

"Markets now have been expanded into the Southeastern states and along the Atlantic seacoast as far north as New York and New England," Key reported, "where it is used on the seacoast as far north as New York and the Southeastern states and along the Atlantic coast."

Pharmaceuticals were increased demand for this item according aid are being expanded still further this season.

"It is found that the calves would remain empty. After a careful examination we could find nothing wrong with the organs of a sterile cow which is the greatest loss in the livestock business."

We tried all known methods of breaking cysts, squeezing out yellow bodies and leaving pus without results. I made the discovery which redeemed 90 percent of the barren cows of a breeding age, not ruined by human hands. It proved to be largely a matter of circulation, a dormant condition. Thousands of our students have been taught to produce a calf annually. We are now securing semen from the bull without service and breeding cows by this method. We have another plan of breeding two or more cows at service of the bull that any farmer can use. Our students were using artificial breeding in this country before it was introduced to the breeders in Europe.

"We fear that the subject of Artificial Insemination will be seriously damaged unless necessary changes are made. The percentage of calves is too small. Every technician should attend this school to prevent disease or injury."

"Our research work continues on our two thousand acres Experimental farms."

Most of this work can be done only by the breeder or herdsmen who is with the cattle daily. It would be too expensive to hire it done. It would require too many trips.

"Diagnosing pregnancy is the foundation for our work which is easily taught. The medicine for a barren cow treatment will cost ten cents. We ripen the corelons in removing the afterbirth. For Breeders and Herdsmen only.

SCHOOL HELD FIVE DAYS
TUESDAY MORNING TILL SATURDAY NIGHT

Boston, Mass. ............... Oct. 17-22
Montreal, Que., Can. .......... Oct. 24-29
Harrisburg, Pa. ............. Oct. 31-Nov. 5
Atlanta, Ga. .................. Nov. 14-19
Memphis, Tenn. ............. Nov. 21-26
Baltimore, Md. .............. Dec. 12-17
Richmond, Va. ............... Jan. 27
Newark, N. J. ............... Jan. 9-14
Cleveland, Ohio ............. Jan. 16-21
Chicago, Ill. ................ Jan. 30-Feb. 4
Minneapolis, Minn. ......... Feb. 6-11
Denver, Colo. ............... Feb. 19-23
Portland, Ore. .............. Feb. 27-March 4
Sacramento, Calif. .......... March 6-11
Los Angeles, Calif. ......... March 13-18
Cincinnati, Ohio .......... March 27-April 1

$80.00 pays round trip railroad coach or bus fare and tuition, if the carfare is not over $25.00. Send for catalog.

Graham Scientific Breeding School
Frank B. Graham, Manager
216 East 10th St., Kansas City 6, Mo.
with BRAHMAN CROSBEEDS and you look to a future of prosperity. To get the best of fast growing beef, use AMERICAN TYPE BRAHMAN BULLS!

Registered and Commercial BRAHMAN Cattle Bought and Sold

T. I. KENNEDY
Punta Gorda, Florida

4 H RANCH
Purebred registered and highly graded Guzerat Brahman cattle. Let us furnish bulls for your commercial herd.

MRS. PAT JOHNSTON & SON KISSIMMEE, FLA.

Registered BRAHMAN CATTLE
Calves by KING GRADAN (8716) and EMPEROR JR. 10th (21366)

Chaires Ranch
Phone 28-191 BRADENTON, FLA.

Youngsters are supposed to be more curious than adults—and this seems to apply to young Brahman too. These calves were photographed at the ranch of Vose Babcock in the Devil's Garden section of Hendry County.

Purina Plans Field Day At Anthony September 6

A two-year field research project which the Livestock Research Department of the Ralston Purina Company has been conducting in cooperation with Norris Cattle Company of Ocala will come to a close on September 1 and results will be revealed at a field day Wednesday, September 6, beginning at Circle Square Ranch southwest of Ocala.

Announcement of the event, which will begin at 10:00 a.m., was made by Otis O. McIntosh of St. Louis, Purina public relations director. A barbecue dinner will be held at Anthony Farms, McIntosh reports, after which the tour will be resumed. Cattlemen who want to attend should arrange for invitations through their Purina dealers since barbecue preparations are being made on basis of invitations accepted.

Purpose of the test was to determine, under southeastern conditions and with common southeastern cattle, the effect supplemental feeding has on (1) size of the calf crop, (2) weight of calves at weaning, and (3) condition of the cows. Similar research was conducted during 1947 at the Caruthers-Campbell Ranch near Barnhart, Texas, McIntosh said.

"At the Cattle Field Day, complete results of the two-year experiments will be presented," McIntosh pointed out. "Visitors will see the actual records and the cows and calves in the experiments, and we feel sure they will be keenly interested in these results."

After seeing the research lots, visitors will be taken to Anthony Farms, home of the Norris registered Brahman herd, for barbecue lunch.

Tour will begin promptly at 10:00 a.m. rain or shine, McIntosh emphasized. Route from Ocala to Circle Square Ranch (which is on the Ocala-Dunnellon road) will be plainly marked.

4 H Workers

(Continued from page 19) Contributions by individuals may be sent to McMullen.

Tours, $50 from soil conservation districts, $750 from the State Feed Dealers Association, $420 from individuals and concerns (including Jackson Grain Company, Cudahy Packing Company, Frank M. Traynor, Maule Industries and J. A. Maurer) and $261 from the Sears-Roebuck Foundation. Manatee County built the $1200 leaders' cabin.

Cattlemen's association quotas and amounts already paid are as follows: Brevard $400 paid on $500 quota; Broward $395 on $700; Charlotte $600 on $600; Dade none on $1000; DeSoto $30 on $500; Glades $300 on $900; Hardee $183 on $400; Hendry none on $500; Highlands none on $500; Hillsborough none on $1000; Indian River $200 on $200; Lee none on $400; Manatee $200 on $700; Martin $300 on $300; Okeechobee none on $400; Osceola none on $600; Palm Beach none on $800; Pasco none on $400; Pinellas none on $700; Polk $600 on $1200; St. Lucie none on $900; Sarasota $48 on $300.
Whether it’s...

HEADS ↓

or TAILS ↓

YOU CAN’T GO WRONG WITH

Manso Blood

Pictured above is the GET of ARISTOCRAT MANSO, 20th Champion “Get of Sire” at more than 15 recent major Brahman shows.

J. D. HUDGINS

“Beef-Type Brahmans”

Hungerford (Wharton County) Texas
Florida Brahman at Home With Circle M Ranch Herd Near Salisbury, N. C.

Florida Brahman are making good in a big way in Rowan County, N. C., where one of the largest herds in the East outside of Florida is owned by W. F. McCanless and kept at Circle M Ranch.

McCanless even has his own post office which he named "Rancho" (although he gets most of his mail at Salisbury). His foreman is a man named A. W. Carter, formerly a Florida cowman, according to an article in the Salisbury Sunday Post, recently.

The Circle M herd numbers about 300 registered Brahman, and 175 registered Shorthorns are included in the operation. Since both herds are composed of registered cattle, their value would run into six figures.

Crossbreeding of a Brahman bull on a cow of any breed produces a superior calf, and McCanless is using that approach in selling registered bulls to his North Carolina neighbors.

According to Carter, introduction of Brahman as herd bulls was the principal factor in the revival of the Florida cattle industry. He declares that a spring calf, sired by a Brahman will weigh 100 pounds more by autumn than if sired by another breed—and at present prices that could mean $25 or more profit for the cattleman.

McCanless is selling young bulls at cattle sales throughout his territory. At the auctions they have been bringing $500 and up per head, according to the Post.

Pasture work is an important part of the Circle M program. Pastures are cross-fenced to maintain herds of 50 to 60 cows each, to simplify breeding records and provide better supervision. When cattle have grazed a pasture for two weeks, they are shifted to another pasture, being moved back again when grass has had a chance to grow back.

Circle M pastures are planted to fescue, Ladino clover and Orchard grass—a mixture which is calculated to permit as much winter grazing as anything. Hay is made, however, and stored for use in the five 50 by 100 foot feeding sheds located on the ranch for winter feeding.

Florida's famous sire, King Grey, has been leased by Durrance Ranch of Brighton to Texas' Sartwelle Brothers herd for use during the fall and early winter. Photograph, taken in Texas, shows, left to right, P. T. Sartwelle, H. F. Sartwelle and Carl Prescoli, Durrance herdsman who delivered the bull.
Leopard cowdogs, also imported from Florida, are used at Circle M at the request of Carter who believes they do the work of two men in tending the cattle. If McCauley has anything to do with it, Brahams are in North Carolina to stay.

**Eastern Brahman Advertising In Committee Hands**

Members of the Advertising Committee of the Eastern Brahman Association are mapping out a concerted program of advertising and publicity to match the enlarged scope of the association which now embraces all territory east of the Mississippi River.

An advertising artist has been engaged to prepare a series of advertisements in color to be run in livestock magazines throughout the Eastern territory. A color map of the Eastern half of the United States showing the location of every member breeder, is also under consideration.

“We are aware of our responsibilities to the membership of the association.” O. L. “Simm” Partin, committee chairman, said. “We feel that it is a part of our job to introduce the Brahman breed to cattlemen and breeders to the North. That does not mean that we will relax our efforts to keep the Brahman at the forefront of the rapidly developing Florida cattle industry.”

**PZA Consolidates Cuban Appraisal**

Appraisal of Indian cattle in Cuba for registry by the Pan American Zebu Association and La Asociacion de Criadores de Ganaderia Ceiba de Cuba will be handled jointly in the future, according to Roy G. Martin of Cotulla, Texas, PZA secretary.

Request for the consolidation was presented at a PZA director’s meeting in San Antonio by Celso Gonzales of Havana, representing the Cuban association. Appraisal committee members will be affiliated with both associations, Martin said.

**Home Demonstration Agent Died August II**

Miss Mary E. McKeown, Florida’s home demonstration agent for nearly 14 years and the woman who established home demonstration work in Puerto Rico, died at her home in Tallahassee August 11.

Miss McKeown was Pinellas County’s first home demonstration agent in 1916. At various times she held regional positions in demonstration work with the extension service and with the appliance manufacturers association.

---

**5 Star Quality**

![Image of Brahman bulls and cows]

* Scale and Substance  * Breed Characteristics  
* Beef Conformation  * Outstanding Bloodlines  
* Gentleness  

Pictured are two of our herd sires, heading our herd of over 300 registered Brahms. In addition, we are using several hundred purchased cows in a European-Brahman cross-breeding program. Available for sale are Brahman bulls from calves to breeding age, and yearling and bull calves of first cross Brangus, Braford, Bralhorn and Charbra.

You are invited to visit our SUGARLAND RANCH located one mile west of Clewiston on U. S. Highway 27.

---

**U. S. Sugar Corporation**

**Owners of Sugarland Ranch**

Clewiston

Florida
Armyworm Control Means Spraying of Pastures and Keeping Sharp Watch for Worms Before They Grow to Danger Size

by Dr. A. N. Tissot, Entomologist Florida Experiment Station

In late summer and early fall of 1949 numbers of Florida cattlemen reported damage from armyworms in their pastures. The trouble appeared to be more common in Pangola grass pastures where the cattle had been taken off and the grass was allowed to grow for winter grazing. Reports of armyworm damage came from various parts of the state, but the infestations seemed to be most prevalent in the area extending from Citrus County south to DeSoto County.

Although these pasture pests were commonly referred to as armyworms, it seems certain that at least two species were present, and probably more were involved. There is evidence that the fall armyworm was responsible for some of the damage but in most cases where specimens were sent in for identification or where good descriptions were given the insects were found to be the grass worm. Several kinds of sod webworms were reported from lawns last year and it is probable that they were present in pastures also.

All of these so-called "worms" are the larvae or caterpillars of moths. The moths lay their eggs on grasses or other plants or sometimes on the soil near the plants. After a few days the eggs hatch and the small caterpillars at once begin to feed. When first hatched the caterpillars are tiny creatures and it would take 20 or more placed end to end to measure an inch.

At this early stage their appetites are proportionately small and hundreds of them could feed in an area of a square yard without causing perceptible injury. After feeding for a few days the caterpillars shed their skins, and during the process they increase greatly in size. They shed their skins four or five times more, growing larger each time. As they grow larger they eat proportionately more food and in the last three or four days of their larval life, they may eat as much as was eaten in the preceding two weeks.

This accounts for the mistaken idea that the armyworms suddenly appear in a pasture and destroy it almost overnight. Of course there may be occasional cases where armyworms actually migrate into pastures from adjoining areas but in most instances they spend their entire growth period on or near the plants where they hatch. Unless they completely devour the plants on which they have been feeding, they are not likely to move about very much.

No way is known to prevent infestations of these insects from developing in pastures or to predict when or where infestations are likely to develop. The moths are strong fliers and they may be carried by the wind, so it is entirely possible that moths entering a pasture may have come from a place several miles away. Of course the moths thus entering a pasture are rarely very numerous and the larvae hatching from the eggs that they lay are relatively few. They generally are widely scattered and their feeding is rarely noticed.

However, the adult moths developing from this first brood will find the pasture a good place to lay their eggs. Thousands of eggs may be laid in a period of just a few days. These eggs all hatch about the same time and the larvae grow up together. When they become half grown or larger they feed ravenously and then it is that they strip areas of grass down to the ground. Usually they are not noticed until the infestation has reached this stage and then it is too late to do much about it.

This does not mean that the caterpillars cannot be killed in the later stages, though they are much harder to kill than when they are small.

Since it is so important that control measures be used while the caterpillars are small, the necessity of discovering infestations early cannot be over emphasized.

This part of the control program is entirely dependent on the pasture owner. The pasture areas should be carefully examined at intervals of not more than a week. Infestations rarely develop evenly over an entire pasture but rather tend to occur in scattered spots. This means that the pasture must be gone over in a systematic manner and one should never be content with examining only a corner or one side.

Until a few years ago there were no insecticides that would effectively control armyworms and other caterpillars in pastures.
119 Sons...
87
Purebred Herd Sires!

That is the unusual (to say the least) record made by our champion Emperor

Our undefeated champion sire, Emperor, has produced 119 sons. Of these, no less than 87 have been chosen to sire purebred herds. That we believe in Emperor's sons is suggested by the fact that eighteen have been retained for use in our own herd. The other 69 bulls have gone into herds as far away as South America, Cuba and Arizona. That our neighbors appreciate Emperor, too, is proven by the fact the bulk of his sons have been retained in Florida and the Southeast.

If you would like to see what Emperor breeding can do for you, we invite your correspondence. Some of Emperor's grandsons will be available during the coming season, and a very, very few of his sons will be available for placement in "good homes."

Visitors welcome at all times. Write for our illustrated folder.

The following owners of registered herds have purchased (or leased) sons of Emperor for use as sires of their purebred herds. We suggest you investigate the record of these bulls on their respective herds:

**TEXAS**
- J. D. Hudgins
- Herman Taylor
- C. A. Williams
- Blackshear Company
- Del Valle Ranch

**ARIZONA**
- Melville Haskell
- Fidel Ochoa

**COLOMBIA, SOUTH AMERICA**
- W. H. Clark

**NORTH CAROLINA**
- Clemson College
- W. H. Jenkins
- Scottwood Plantation

**SOUTH CAROLINA**
- Frederic Ewing

**FLORIDA**
- J. A. Barthle

**Dick Bunch**
- Camp Ranch
- F. P. Ghaires Jr.
- W. C. Champion
- Ola Cowart
- William Candler
- A. Duda & Sons
- Durance Ranch
- A. J. Ferguson
- Flx-Ga. Tractor Co.
- J. B. Grant
- P. H. Gerdener
- Heart Bar Ranch
- H. S. Hazer
- Harris Ranch
- R. A. Henderson
- W. S. Ingram

**J. P. James**
- Fina Evans
- M. M. Manning
- Murphy Ranch
- Norris Cattle Co.
- Range Cattle Exp. Sta.
- State Prison Farm
- Kirby Smith
- Minor Platt
- Range Cattle Exp. Sta.
- State Prison Farm
- J. F. Summer
- Dr. W. C. Toshington
- J. K. Stuart
- VanLandingham Bros.
- The Whaley Company
- John E. Wilson

Heart Bar Ranch
HENRY O. PARTIN & SONS
Phone 5603
KISSIMMEE FLORIDA
PENSACOLA BAHIA

- more winter grazing
- best of sand land

We are producing some of the finest Pensacola Bahia seed in Florida, from established pastures without other grasses. We will have a limited supply to sell direct to cattle raisers at market prices. Order now. Supply is short due to the drouth.

B. B. SAUNDERS JR.
O’BRIEN, FLORIDA

South of Live Oak near U. S. 129

Now that we have DDT and similar insecticides, control is not only possible but also economically practical. Numerous tests have shown that DDT and toxaphene are highly effective against the fall armyworm. These insecticides also give good control of webworms in lawns. It has not been possible to carry on any control experiments against the grass worm and until such tests are made it will be impossible to state definitely which insecticides will be most effective against it. However, it is known that DDT and toxaphene are effective against a wide variety of caterpillars and it seems probable that they will control the grass worm as well.

Either five percent DDT or 10 percent toxaphene dust may be used and an application of 25 pounds of dust per acre is recommended. If too small an amount of dust is used, poor control is almost sure to follow and the dust that is applied will be largely wasted. Nothing is to be gained by using DDT dusts stronger than five percent. There is no objection to using 15 percent toxaphene in place of the 10 percent dust and in cases of severe infestation the more concentrated dust may be better.

For spray application with ground equipment, the wettable powders of DDT and toxaphene will be most generally used though emulsion type sprays also should prove satisfactory. Two pounds of 50 percent wettable DDT or 2.5 pounds of 40 percent wettable toxaphene (or equivalent amounts of other formulations) should be used in 100 gallons of water. For adequate coverage it will be necessary to use about 100 gallons of spray per acre.

When insecticides are used in Pangola grass or other pastures that are being saved for winter grazing, there will be no residue problem. The insecticides will be washed from the grass rather completely during the several weeks that separate the application and the putting in of the cattle. If infestations develop in pastures where cattle are grazing the cattle should be removed before applying insecticides and they should be kept off the treated areas for at least three weeks.

New Cattle Feed Plant

PROCESSED CATTLE FEED will be turned out at the now defunct Ramie Products plant at Belle Glade. Plant was recently purchased for $75,000 by C. B. Dryden of Rogers, Arkansas, and Hugh B. Lott of Varna, Illinois.

Pet Bull Kills

JOHN L. GREGORY, well known Gadsden county resident, died recently from wounds inflicted by a pet bull. Gregory was attacked while currying the animal.

L. E. FUGLE
DEEP CREEK FARMS

BULLS—Calves and Coming 2s—FOR SALE
DeLand (Tel. 32) Florida
Sarasota Breeder Loans Bull for Use on Ohio Herd

Omio is "lend-leasing" this year from Florida.

A two-year-old son of Santiago, sire at the Clover Bar Ranch at Sarasota, has been loaned to Dr. H. L. Little of Jeffersonville, Ohio, according to Mrs. S. R. Blackwell. Bull’s name is Santos.

Santos will be bred to 25 Hereford, Angus and Shorthorn calves on the Little Farm this summer. In addition to his English cattle, Little owns a herd of nine registered Brahmanas purchased from Clover Bar, Sugarland Ranch at Clewiston and Durrence Ranch at Brighton.

Crossbreeding with Santos should produce calves outweighing purebreds of English breeding by 90 to 100 pounds at seven months of age, according to Mrs. Blackwell.

"Those extra pounds of baby beef could mean the difference between a profit and a loss," she points out. "25 cows bred to Santos should mean an extra 2400 pounds of beef for Dr. Little."}

Pair Plead Guilty To Cattle Theft Charge in Volusia

Prompt action by Volusia County Sheriff Alex D. Littlefield’s office in DeLand resulted in a guilty plea August 16 by Safefill Watson and W. A. Rainey, accused of stealing a calf on August 9.

Deputy Sheriff Gene Petrone has been active in investigating the slaughter of a registered dairy calf belonging to little Marilyn Jacobs, 4-H girl, but it is not known whether Watson and Rainey were guilty of this theft or not.

Charges are also placed against the man who purchased the stolen beef.

Cow Hides Improved Since Tick Program

Florida’s cow hides used by tanneries for producing leather goods have shown a vast improvement during the past 20 years as a result of the state’s tick eradication program, William W. Lord, production manager of Lakeland Tanning Company, told Lakeland Kiwanians at a recent meeting.

"Twenty years ago Florida hides were full of ticky holes," he said, "today they are only about five percent ticky."

Charlotte Will Record

Recongnizing of all livestock transported through Charlotte county was ordered during a recent meeting of the Charlotte County Cattlemen’s Association, according to County Agent N. H. McQueen, secretary of the association.

For the first time in history Brahman cattle will compete for $2000 in premiums at the Southeastern Fair in Atlanta Sept. 27 to Oct. 7. Brahman breeders may obtain premium list and entry blanks from W. Tap Bennett, superintendent livestock division, Southeastern Fair, Inc., Atlanta.

Spectators are assured of a representative exhibit of Brahmanas from the finest herds in the nation.

Make your plans now to be in Atlanta. For particulars, write Al Cody, secretary . . .

INDU-BRAZIL ZEBU CATTLE, a distinct breed among the Brahman herds of America, Rich in Indian Gyr and Guzerath bloods, are outstanding in their qualities for more efficient and economical beef production. Astounding weights, quicker maturity, and higher dressing percentages, common to true Zebu type can inject added profits to your beef production Program.

For Further Information Contact DEPT. “F”

Pan American Zebu Association
P. O. Box 268 - Cotulla, Texas

Eastern BRAHMAN ASSOCIATION
Formerly Southeastern Brahman Breeders’ Association
LIVESTOCK EXCHANGE BUILDING - KiSSIMMEE, FLORIDA
Don’t Cuss It, Says Bair; St. Augustine Is Still One of Best Grasses

Cattle learn to like St. Augustine which grows best where there is complete water control; Grass takes year to get started

by Roy A. Bair, Agronomist
Everglades Experiment Station

The gum chewing girl and the cud chewing cow,
There is a great difference, you will allow;
What is this difference? Ah, I have it now—
It's the thoughtful look on the face of the cow!—Anonymous

The reproachful expression in the eyes of a cow turned in on a St. Augustine pasture for the first time, might easily tear at the heartstrings of any but the most unsympathetic cattlemen, and result in turning the animal back to her accustomed wiregrass, carpet, or any of the other species which never produce as much nourishing forage.

Pasture scientists, only a few years ago, spent a good deal of time with stop-watches and notebooks in hand, observing cattle in “cow cafeterias”, where the animals were given free choice of several varieties of grass planted in strips. The assumption was, of course, that the cow would unerringly select the grass which would produce the most beef or milk. We now know that the cow’s judgment is not always infallible.

In all parts of the United States where white Dutch clover is grown, cattlemen know that their animals must learn to like the clover. Unless they are extremely hungry, cattle put on clover pasture for the first time refuse to graze it for a day or so, but gain weight on it more rapidly than on most range grasses after they become accustomed to it.

Similarly, in South Florida, cattle refuse to graze patches of St. Augustine grass which happen to be growing in pastures of Para, Pangola or Bermuda grass. At the Everglades Experiment Station, however, it was observed that when cattle were fenced on a pasture consisting entirely of St. Augustine, they first ignored it, then grazed reluctantly. Eventually, after two or three grazing periods on St. Augustine, they actually preferred it to other common pasture species, and they gained more weight on it than has been reported for any other grass in the United States.

The following table compares the total number of grazing days and the pounds of beef per acre produced by St. Augustine and Para pastures over a period of five years at the Everglades Station.

<table>
<thead>
<tr>
<th>Year</th>
<th>Grazing days per year</th>
<th>Lbs. beef per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>St. Aug.</td>
<td>Para</td>
</tr>
<tr>
<td>1943</td>
<td>1224</td>
<td>810</td>
</tr>
<tr>
<td>1944</td>
<td>1321</td>
<td>957</td>
</tr>
<tr>
<td>1945</td>
<td>1379</td>
<td>983</td>
</tr>
<tr>
<td>1946</td>
<td>1379</td>
<td>983</td>
</tr>
<tr>
<td>1947</td>
<td>1321</td>
<td>957</td>
</tr>
<tr>
<td>Total</td>
<td>6118</td>
<td>4249</td>
</tr>
</tbody>
</table>

During the five-year period, St. Augustine produced 186 more grazing days, or 44 percent more than Para; but the beef increase amounted to 4816 pounds, or 145.4 percent. St. Augustine made not only more forage; it produced better quality pasture. If the 4816 more pounds are worth an average 20 cents a pound, at current prices, the St. Augustine pasture was worth $963.20 more than Para over a five-year period, or $192.65 yearly. At 20 cents a pound, the beef produced by Para has been worth $168.20 annually.

These production records, which will be regarded as fantastic by some, are possible only on good management practices with good quality cattle grazing on adapted grasses which are growing on organic soil, fertilized annually, and under water control. Evidence is accumulating that good pasture may be worth even more for milk production. A large commercial dairy, situated on muck soil, has grazed 68 head of their best cows continuously on a heavily fertilized 14-acre Para pasture for 200 days. During the entire period, the milk production has averaged 3.5 gallons per cow each day, although feed costs have been reduced 50 percent. The 4.8 cows per acre thus are producing 16.8 gallons daily, or 3960 gallons for the 200 days. If the usual ten cents roughage cost, per gallon of milk produced, is credited to this pasture, it has been worth $396.00 per acre.

The superiority of St. Augustine is due in part to its resistance to light frosts, and to its ability to grow at a reduced rate during cool weather when other pasture species are completely dormant. In Central Florida, where somewhat lower temperatures than in South Florida are encountered during the cool season, the advantage of St. Augustine over other grasses is increased. In other words, when grown on the best soils to be found north of the Everglades, St. Augustine may be worth several dollars per acre more than other grasses, in light of the sounder principles of cattle production.
Everglades, this grass will produce even greater percentage increases in beef, provided that the growing conditions for St. Augustine are met. Don’t plant this species unless you are prepared to fertilize it liberally—preferably with 300 pounds annually. Don’t plant on excessively dry land, nor on locations which are ever flooded for more than two weeks. Complete water control is advised, so that irrigation or drainage can be undertaken as needed. Don’t plant it at all if you want a pasture quickly. St. Augustine is notoriously slow, sometimes requiring from six months to a year after planting before the stand is solid. However, the Roselawn strain of St. Augustine is much quicker than the common type to fill in completely and smother the weeds.

On many muck and sandy loam areas in central Florida, beef dollars are being sacrificed by failure to establish water control and plant Roselawn St. Augustine.

**Putnam Plans Show For November**

Plans for the Putnam County Livestock and Agricultural Show to be held in Palatka on Saturday, November 25, are being developed, according to County Agent H. E. Malthy.

Malthy said this is the first agricultural show held in the county for many years and will include beef classes for Herefords, Angus and Brahmins. Dairy exhibits and poultry exhibits are also included in the show committee’s plans.

**H & S Ranch Sold To Orlando Man**

H & S Ranch, located five miles east of St. Cloud, has recently been purchased by A. Lewis Bullis of Orlando from L. V. Smith of Alligator Lake and N. O. Heitman of Alliance, Ohio.

Registered herd of Brahman cattle was sold recently to Dick Bunch Ranch of Orlando. Bullis retains the grade and registered Aberdeen-Angus cattle now on the ranch.

**Citrus Grower Buys**

Albert Bader, Lakeland citrus grower, recently purchased a 6800-acre ranch with 560 head of cattle for $140,000, Frank Wheelon, Tampa broker, reports.

The property is located at Wesley Chapel on State Road 54 and was formerly owned by Mr. and Mrs. Mitchell of St. Petersburg.

**Okeechobee Toured**

Thirty South Carolina cattlemen recently visited Okeechobee to see local improved pastures and cattle, according to the Okeechobee News.

You'll always enjoy wearing Nocona Boots—made to give you foot comfort and long service, no matter how you use them. Ask your dealer to see the new, colorful styles—in stock or in the new Nocona Boot catalog. If there's no Nocona Boot dealer near you, write to us.

Don't Ask Your Cows

DON'T ASK YOUR COWS what grass to plant. They won't prefer ROSELAWN ST. AUGUSTINE at first, but grass specialists and successful cattlemen know that it will produce more beef than any other grass on your moist muck or sandy loam areas.

CARIB IS STILL THE BEST FOR UNDRAINED LAND. CARIB and PANGOLA also available in unlimited quantities.

Sod & Pasture Service

Fred Bettellheim Jr., Manager

P. O. BOX 224, BELLE GLADE, FLORIDA
Phone 3094 or 2725
Lignin from Citrus Seed Reduces Availability of Food Value in Citrus Pulp

**Seed meal man quotes experimenters in his assertion that seeds make good fertilizer but are worse than nothing in feed**

by J. Edwin Hutchman

Research men in Florida and elsewhere have discovered an element in citrus seeds which actually reduces the nutritional value of feed from which the seeds have not been eliminated. The villain is lignin.

Dr. R. B. Becker, of the Agricultural Experiment Station at Gainesville, Florida, in a private communication summarizes the action of lignin in feeds by stating that as the percentage of lignin in a feed increases, the coefficients of digestibility decrease. Not only does the lignin not digest, but it suppresses the digestibility of otherwise digestible foods.

Dr. George K. Davis, also of the Agricultural Experimental Station, has been most helpful in discussing lignin influence and by supplying information and references to several research projects. Fraps and Associates computed the feeding value of peanut hulls as zero. Although peanut hulls contain a little digestible protein, they have no productive value. When added to a concentrated feed, they decrease the feeding value of the feed without any corresponding advantage to the purchaser. Prof. F. B. Morrison reports on a test of wintering beef steers, in Georgia Coastal Plain Station Bulletin 29, that such adulterants were unsatisfactory even when fed with a limited allowance of corn and supplemented with cottonseed meal. Peanut hulls are much less nutritious than straw.

Kellner has summarized European work on lignin in feeds and regards it as worse than worthless.

Now the question naturally arises—why talk of peanut hulls? They are not generally found in citrus pulp feeds. No, they are not found in such. Instead, their equivalent is there, in the form of citrus seed hulls. It has been found that citrus seed hulls contain a relatively high amount of lignin, and since the undesirable portion of crude fiber is lignin, it is reasonable to assume that the more seed hulls that remain in the dried citrus pulp, the higher the undesirable lignin will be in...
Any fiber content in excess of 10 percent in a properly dried citrus pulp feed is probably due to hulls. For example, the State Feed Laboratory analyzed samples of dried citrus pulp feeds made from seed-free citrus waste and showed less than 10 percent fiber, over 3 percent fat, and over 6 percent protein. On the other hand, fiber as high as 18 percent is often found in citrus pulp feed. Since this fiber is lignin, the digestibility of the balance of the feed is greatly depressed, rendering the feed of much less value than the analysis tag would indicate.

There are several other advantages to the cattlemen in the use of seed-free Citrus Pulp Feeds:

(a) Greater uniformity of composition from bag to bag and throughout the season, thereby permitting intelligent feeding and also permitting standardization of citrus pulp feeds.

(b) Elimination of rancidity in storage, especially in the summer months, with resulting loss in palatability and feed value.

(c) Decrease in danger of spontaneous combustion of stored feed.

(d) Decrease in Weevil infestation and loss of feed.

(e) Increase in average digestibility of citrus pulp feeds.

The removal of seed from canning waste is easily accomplished. This removal solves the cattlemen's problem but introduces another to the canner or to the feed manufacturer—what to do with the seed. At first it was thought the seed would make a good hog feed; but this theory was disproved by feeding tests conducted by Dr. R. S. Glasscock and others in the Florida Agricultural Experimental Station. However, another useful market developed for the seed where the lignin is not objectionable, i.e., in fertilizer. There, the organic nitrogen of the seed is ideal as a fertilizer and the fiber, instead of being undesirable, proves beneficial, since it serves as a perfect fertilizer conditioner. While improving Citrus Pulp Feed, the canning plant falls heir to extra revenue from one additional by-product—the locally citrus seed.

This, contrary to popular belief, seed is dried Citrus Pulp Feeds is a joker, being a liability rather than an asset.

**New Scale Outfit**

Dixieboard Livestock Market's scale platform-auction ring combination is meeting with wide approval, according to Manager Willard "Red" Segler.

Segler says the scale forms the entire auction ring, making it easy for both buyer and seller to see exactly what the animal weighs. The system works electrically and prints the weight on a card.

**Pasture Irrigation**

![FMC Pasture Irrigation Ad](image)

RUGGED...PORTABLE...ALUMINUM!

FMC Aluminum irrigation pipe with rugged and dependable cast aluminum couplings and fittings make the perfect combination for use with high pressure "guns"—gives you fast, efficient and economical pasture irrigation!

SEND FOR YOUR FMC CATALOG NOW!

- PIPE-COUPINGS-PIPE FITTINGS

Write Drawer F-3 For Free Copy of the New FMC Irrigation Catalog.

FOOD MACHINERY AND CHEMICAL CORPORATION
FLORIDA DIVISION . . . . . . . . LAKELAND, FLORIDA

**The "SPRED-ALL" Fertilizer Distributor**

Will Make Profits For The Cattlemaster

*In The Development Of Finer Pastures*

- Broadcast your seed or fertilizer, phosphate, slag, Dolomite, Agricultural lime or other soil conditioners, where and when you want it. Write for literature or have our representative call on you. Also available in other models.

The "BULKMASTER" The Truck "SPRED-ALL"

2-2½ Ton Capacity 2-4 Ton Capacity

Manufactured By

MEINCKE SPREADER WORKS, Astatula, Fla., Phone: Tavares 2446

For September, 1950

53
The Florida cattle industry will be responsible for the purchase of five million dollars' worth of motor trucks during the next five years, according to a survey completed by the editorial staff of The Florida Cattleman.

The survey was not a matter of questionnaires, but was the result of personal interviews with a cross section of Florida Cattleman readers in representative parts of the state. From Nassau county to De Soto county, 150 personal interviews were made, and the results carefully tabulated.

Here are some of the startling things this survey tells us:

- 90 percent of Florida Cattleman farms operate wheel-type tractors, and during the next five years plans are made to purchase 4,448 new units (additional or replacement). Who said the Florida cattle operation wasn't mechanized?
- 4280 trucks (including 2862 pickups, 127 tonners, 270 heavies, and 210 semis) will be purchased for additional equipment or replacement on Florida Cattleman farms during the next five years, according to readers' statements. That's at least five million dollars' worth!
- 1389 rolling-type weed and brush cutters will be purchased as additional or replacement equipment on Florida Cattleman farms during the next five years. Who said the market was saturated?
- 1116 sickle-bar mowers, 519 rotary mowers, 1841 side delivery hay rakes, 1562 hay driers, and 1674 hay balers will be added to Florida Cattleman farm equipment inventories in the next half decade. Proof that the Florida livestock industry is going in for forage in a big way!
- 48 percent of Florida Cattleman farms will add irrigation equipment in the next five years. That means a market for 2678 irrigation pumps and portable pipe installations. Drainage is only half the job in moisture control!
- 50.67 percent of Florida Cattleman farms have home freezers; but 42 percent plan to purchase home freezers in the next five years!

What a Market!

No question about it—Florida Cattleman readership represents an able-to-buy market of stupendous size, interested in an infinite variety of things for the farm and home. What they buy depends on how good a selling job you do, in the columns of The Florida Cattleman. Because no other publication—either vertical or sectional or national—can present your story specifically to this specific audience as can The Cattleman.

And no matter how heavy your present advertising program is in the Florida territory, the specialized Florida cattle industry can be reached only through the specialized type of journalism that is exemplified in The Florida Cattleman. Brand preferences, too, are included in the Florida Cattleman Farm Equipment Survey for 1950. Send your copy to Al Cody, Cody Publications, Inc., Box 89, Kissimmee, Florida.
Swine Business Means More To Florida Than Most Realize, Says Cunha

by T. J. Cunha

Florida Agricultural Experiment Station

The swine industry in Florida is much larger than most people realize. From 1924 to 1945, a period of 21 years, the gross income for swine was greater than that for beef cattle. Only recently, in 1948 and 1949, was the income from beef cattle greater than for swine.

In 1949, Florida had 666,000 head of swine. Figures for the last 20 years show that swine numbers have varied yearly from 447,000 to 770,000 head. However, in most years the number has been around 500,000 to 600,000 or a little over one-half million head.

Florida produces approximately 60 percent of the pork and lard that it consumes. Thus, if Florida were to produce all the pork it consumes, it would need to approximately double its present production. However, this does not mean that the Florida swine producer should be concerned only with increasing swine numbers. The most important problem at the present time is to improve the quality of the hogs now being produced. While a good many swine men are using purebred boars in grading-up swine, there is still considerable more improvement needed along this line. United States Department of Agriculture figures show that for the first three months of 1950, the hogs slaughtered in Florida averaged 172 pounds; whereas, the average in the United States was 236 pounds. Improvement in the factors necessary (better breeding, feeding, management and disease control) to bring the weight of the hogs slaughtered in Florida to the national average in slaughter weight would increase the amount of pork produced in Florida approximately 37 percent.

The value of swine in Florida has gradually increased from $7.50 per head in 1943 to $12.50 in 1949. However, the average value in the United States in 1949 was $8.80 per head as compared to $11.70 in Florida. Thus, the average value of each hog marketed in Florida is still considerably lower than the national average. This lower value per animal is due primarily to a smaller market hog and to the fact that considerable soft pork is produced in Florida (due to hogging-off peanuts which causes a soft fat). Soft pork hogs bring a lower price on the market which is usually from $1.00 to $2.00 less per 100 pounds body weight.

Most of the hog producing areas in Florida are in north central and northwest Florida. If one draws a line from Jacksonville to Cedar Keys through Gainesville, he would find that approximately 70 percent of the hogs produced in Florida are raised in the area north and northwest of that line. According to 1949 figures Jackson County was the leading swine producing county in Florida and produced approximately 10 percent of the hogs in the State. Jackson County was followed in order by Suwannee, Levy, Alachua, Madison, Santa Rosa, Holmes, Marion, Gadsden, and Columbia Counties.

Hogs are marketed in the largest numbers in Florida during December, January, February and March. During these four months approximately 57 percent of the hogs produced in Florida are sent to market. The months of May, June, July and August are the lowest hog marketing months. During these four months only 14 percent of the hogs produced in Florida go to market. The situation shows that there is considerable room for improvement in breeding and feeding programs which would tend for a more even distribution of hog marketing throughout the year. Such a program would tend to prevent periods of lower prices such as occur during the heavy hog marketing months.

Peanuts and corn are the most widely used crops for swine feeding in Florida. Other swine feeds produced in Florida are citrus and cane molasses, chufas, sorghums, sweet potatoes, tankage, fish meal, garbage and green grazing crops. Considerably more usage should be made of citrus and cane molasses for swine feeding. Florida produces more citrus and cane molasses than any other state in the nation. Thus, both of these products are available in large quantities, are very cheap in price and can be used to good advantage in swine rations. However, at the present, swine producers in Florida take very little advantage of these economical feeds.

Following are some of the problems which should be met in order to improve swine production in Florida:

1) Eliminate the "starvation period" which occurs in the spring until corn and peanuts are ready to hog-off in late June and early July. This is one of the most important problems to be overcome in Florida.

2) Properly supplement home-grown feeds with minerals, protein supplement and vitamins. It is very disappointing to observe the many abuses which occur in improper feeding practices throughout Florida.
TANKS & TROUGHS
For Molasses Feeding
We manufacture units of any size for all feeding problems...easily installed...Tanks, supports, troughs, valves and fittings...all reasonably priced. Write or call for full particulars and prices.

Plant City Welding & Tank Company
Phone 294
on U. S. 92, one mile east
PLANT CITY • FLORIDA

ATHENS
HEAVY DUTY PLOWING
HARROWS
for pasture land preparation
Caldwell CHOPPERS
These are the machines that have proved so valuable in pasture and land development in Florida. For further information write or call us.

SOUTH FLORIDA MOTOR COMPANY
Distributor
Dealer for International Harvester company
Motor Trucks, Crawler Tractors, Wheel-type Tractors, Power Units and complete line of ranch and grove equipment. Refrigeration.
SEBRING • FLORIDA

SHORTHORNS
For Information on Securing Florida Climated Shorthorns, contact any one of the following Breeders:

BEARDSLEY FARMS
Clewiston, Florida

MIRROR LAKE FARMS
R. G. Heine
Dade City, Florida

HILAND ACRE FARMS
John P. Duane
Ocala, Florida

PIE ACRE FARMS
Dr. D. W. Griffin
Chipley, Florida

ORANGEWOOD STOCK FARM
C. B. Rodenberg
Orlando, Florida
Route 3

Santa Gertrudis
Range Bulls

MONTGOMERY RANCH
Telephone 205-R
ARCADIA, FLORIDA

PRINTING
Done Right!
THE CATTLEMAN PRESS
KISSIMMEE, FLORIDA

Yearling SANTA GERTRUDIS bulls for sale.

C. C. PETERS
LAKE WALES, FLORIDA
Ranch: Highway 60 at Kissimmee River

SANTA GERTRUDIS
Good Red Florida raised BULLS

Come make your selection
WALKING HORSES

Stud Service and Sales
Registered Palomino Walking Horses too.

PANULETA FARMS
Arthur Panoast, Owner
6 types Pasture Grass cuttings
10 miles north of Miami, 2 miles west of U. S. No. 1 on 167th St. at NE 7th Ave.
Phone North Dade 8499

The Florida Cattleman
**FLORIDA LIVESTOCK LOANS**

We invite you to Bank with us by mail.

**THE FIRST NATIONAL BANK**

KISSIMMEE - FLORIDA

“A bank for cattlemen run by cattlemen”

Member F. D. I. C. Deposits insured up to $5000 to each Depositor

---

**LYKES BROS., INC.**

**PACKING PLANT**

**Meat Packers**

**DAILY CASH MARKET FOR YOUR LIVESTOCK**

**TAMPA**

**Advertise**

---

**Pasture Seed FALL DELIVERY**

Write us now for early quotations on your Pasture Grass Seeds. We offer only top quality seeds and early prices are usually low. Give us an estimate of your needs now and save money on early bookings.

Write for Pasture Information Bulletin and quotations.

**E. A. MARTIN SEED CO., INC.**

P. O. Box 2548 — JAX, FLA.

---

**State Fair Prize Money Announced**

FLORIDA BEEF CATTLEMAN can win as much as $13,740 in prize money at the 1951 Florida State Fair, R. D. Jackson, chairman of the Fair livestock committee, told advisory committee members representing each of the beef breeds in a meeting at Tampa August 11.

The prize money will be offered at the rate of $250 per breed for six breeds which have shown at the State Fair in past years—Aberdeen Angus, Brahman, Devon, Hereford, Santa Gertrudis and Shorthorns.

Show classifications of each of the breeds were adopted, with Devons and Santa Gertrudis, for which no classifications were available, using a slightly modified form of the standard classification used last year.

Meeting was attended by breed representatives from all breeds except Devon. Jackson presided and was assisted by Assistant Fair manager J. C. Huskisson.

Tie space will be assigned later to each breed, Huskisson told the group, with recommendations from the breed advisors weighing heavily in determining the space to be allotted. Breeds will be expected to fill the available space.

Prize money will be paid to six places in the individual classes and to four places in the group classes. All breeds have 14 classes for individuals except Brahmans which have 16. Prizes in these classes will be $30, $25, $20, $15, $10, and $10 for first through sixth places respectively, and the remainder of the $250 allocation for the breed will be divided equally among the group classes with 40 percent of the money going for first prizes, 30 percent for second prizes, 20 percent for third and 10 percent for fourth.

In addition to the adult shows, FFA members will again compete in the State FFA Beef and Dairy Cattle Show. No horses will be shown, however, and space for nurse cows will be provided behind the livestock pavilion, which will leave room for 75 or 100 more beef animals than were exhibited last year.

**Nassau Elects Owens**

L. L. Owens of Yulee was elected president of the Nassau County Cattlemen's Association during a recent meeting of that organization.

Other newly elected officers are: Curtiss Quarrier of Callahan, vice president; Gordon B. Ellis of Callahan, secretary-treasurer. New directors are: A. G. McArthur, J. L. Irvin, F. N. Stokes, Earl Cheney, and H. F. Smith.

---

**For Better Beef to add POUNDS+GRADE GROW BETTER GRASS Use time tested "FFF" BRANDS**

**FLORIDA FAVORITE**

**FERTILIZER, INC.**

LAKELAND, FLORIDA

**Daisy Cattle Markers**

Delivery one to three days Postpaid

NO. 21—FOR NECK, Adjustable chain. Numbered both sides. Plated, $11.50 per dozen

NO. 17—FOR HOOF, Adjustable chain, $5.00 per dozen

NO. 28—DOUBLE PLATE NECK CHAIN. Upper portion strap, Lower portion chain, $12.50 per dozen. Sample mailed for $1.00. Write for folder.

GOLDEN ARROW FARMS

Dept. CM, Box 7

Huntington, Indiana

**Pasture Fertilization and Spreader Service**

For more than five years our organization has been giving satisfactory fertilizer and spreader service to Florida cattlemen.

Modern equipment — including the latest four-wheel and ten-wheel drive equipment, and spreaders especially designed for light as well as heavy applications of fertilizer, lime and phosphates — makes it possible for us to deliver fertilizer in bulk to your pasture in carloads or semi-load lots and spread it at minimum expense to you. We guarantee even distribution.

Where soil analysis is necessary we will take samples and make recommendations. We guarantee immediate service. Write or phone—we will call at your convenience.

**EDENFIELD & SEAL CO.**

1205 Oak Hill Drive

Phones: 37-594 and 49-700

Lakeland, Florida
Crossbreds do all right, no matter which way the cross is handled. These healthy calves, shown with their registered Hereford mothers, were bought from the previous owner by John Bird of Hernando who will breed the cows to registered Hereford bulls next time.

Work and Planning Make Good Hereford Breeders

You don't become a Hereford breeder just by buying the best cattle, according to a recent article by Bruce Taylor of the American Hereford Association.

"Each herd progresses according to the skill of the breeder, plus a measure of trial and error," Taylor says. "There is no printed formula for success; if there were, registered Herefords could be ordered from a catalogue like rope, corn-shellers or nails. Mating animals so that the offspring will be superior to the sire or dam, or both, is the breeder's aim, but he does not always hit the target."

Every productive breeder of registered Herefords must have some immediate objective for the herd, Taylor believes, and a goal for himself as a breeder. Available capital to invest may limit the number of foundation animals purchased, but does not mean to buy the cheap kind.

"Herefords, like anything else, can be purchased in a range of prices," Taylor points out. But he adds that the low 25 sales in the United States (out of 360 held) returned less than two percent of the money returned in all sales, compared to 3.3 percent for the top 25 sales.

Taylor recommends purchase of cows with calves at side, or bred heifers, for the breeder who needs to get quick returns.

Depending on the bank account and inclination of the breeder, he can try to breed top Herefords almost immediately by purchasing the best, or he can do the improving himself by starting with average females and better-than-average bulls.

Basis of economical beef production is grass, Taylor reminds would-be breeders, and no beef breeding herd should be founded unless grass, hay and feed are readily available. Herefords are naturally outdoor cattle, and their ability to utilize either growing or mature grass and the farm-produced roughages which have but little market value make them economical to maintain.

"Herefords are rugged cattle, but they cannot produce beef without feed," Taylor says.

A vast majority of breeders have used the farm or ranch they already have as the basis for their registered herds, according to Taylor. Breeders abound in every state and whereas some areas have near year-long grazing, other regions have abundant hay or cheaper land. There is no "best" location. The demand for Herefords is nation-wide, and for this simple reason their adaptability is also nation-wide, he points out.

"In handling Herefords comparatively little expensive equipment is necessary," Taylor states. "Registered herds require more cross-fences, lots and such, and are ordinarily afforded more in the way of sheds and barns than are commercial cattle, but here again the buildings need not be elaborate or expensive.

The overwhelming preference for Herefords insures a ready market for surplus breeding stock of the correct type, quality and breediness. However every breeder has to develop his own market and he soon learns what his trade demands. He learns too that Herefords like any other product, must not only be fitted for sale but advertised... You must like to attend Hereford field days, tours and meetings, and enjoy meeting people whose interests are the same as yours."
Quincy Sale
Of Herefords
Tentative

Florida Hereford Association may hold an annual auction of registered cattle at Quincy this year directors decided at a meeting in Webster recently.

"We believe the Quincy location is a natural for selling purebred Herefords to cattlemen not only in northern Florida but in Alabama and Georgia as well," T. Noble Brown, president of the association, declared.

Directors also (1) tentatively approved plans for a folder which will be ready for distribution at the Sumter All-Florida Breeders' Show in Webster November 2-4, and (2) nominated Ed Watkins of Inverness to represent Herefords in Florida at the 1953 Florida State Fair beef cattle show.

Another reason for holding a sale in Quincy, Brown said, is due to the fact that all previous association sales have been held in peninsular Florida, at Ocala, Tampa and Kissimmee, and several members are located in the northwestern portion. April dates were discussed for the sale.

Illustrated folder will discuss advantages of Herefords for crossbreeding work and feeding, the fact that Hereford cows make exceptionally good mothers, and ways of getting into the Hereford business.

Three Buy Herefords
From Milligan Ranch

Registered Herefords have been sold to two Florida and one Georgia breeder by Milligan Ranch at Callahan, according to Jim Milligan, manager.

Latest sale was six cows and one bull which went to R. L. Mann of Macon, Georgia. Five cows were sold to W. W. Hodges, Jr., of Callahan, and one bull to J. J. Nolan of Whitehouse.

Farm Truck Figures
Given By Bransome

America's farmers own 2,500,000 trucks, and another 500,000 trucks haul only farm products, according to E. D. Bransome, president of Mack Trucks, Inc.

Eighty-nine percent of all farm products, he said, now reach their markets by highway.

Preparing for Show

County Agent W. L. Woods reports that a large number of 4-H club boys are preparing for DeSoto County's livestock show which is to held this Fall.

Improvemnt Needs Herefords

Steady improvement in quality of Florida cattle has been accomplished over the years not only through pasture development but through the use of registered bulls.

Herefords, with their prepotency, efficient use of grass and feed, their vigor and activity, can contribute greatly to your up-grading program. Buyers like uniformity—and you'll get uniformity in coloring and conformation by using Herefords.

Within the near future this association will publish a folder giving further information about Herefords in general and Herefords in Florida. If you would like a copy, please write

Florida
HEREFORD ASSOCIATION
T. Noble Brown, President
Webster, Fla.

Registered Hereford Cattle • Pensacola Bahia seed and hay

The J-BIRD'S RANCH
JOHN J. BIRD, owner
Four miles north of Inverness on U. S. 41

Registered Hereford Bulls and some bull calves for sale

RIGGS HEREFORD RANCH
RFD 3, Box 81, Ocala, Florida • I. W. Riggs, Jr., Owner and Manager
Ranch located seven miles west on Florida 500-U. S. 27

THANKS!

Mr. P. E. Williams
Davenport, Fla.

For your purchase in four figures, of a two year old HEREFORD BULL. To be used in your Outstanding Commercial Herd. And the additional purchase, of two Yearling Bulls, to be used on a select group of your heifers.

We are naturally proud that a breeder of your experience and accomplishments in the commercial cattle business in Florida, would select our Herefords, and consider it a tribute to the Breed and our Herd.

THE CREEK
FARM

MINOR S. JONES III
FORT MEADE, FLORIDA
SUGAR-SWEET
Pulp, rich in its own natural fruit sugars, is higher in total digestible nutrients*, higher in nitrogen-free extract**, lower in fiber***, less dusty and more palatable than plain citrus pulp.

*75.0% to 74.0% for Plain.
**65.0% to 59.0% for Plain.
***13.5% to 16.0% for Plain.

Crude Protein (6.0%), same as Plain, and Crude Fat (2.3%), same as Plain.

PASCO PACKING COMPANY
Dade City, Florida

One of the South’s best herds of Purebred Herefords
CIRCLE LP RANCH
(Loncala Phosphate Co.)
SAM KELLY, President
Clark, Florida
4 miles south of Nigh Springs on U. S. 41

Registered Hereford Cattle Polled and Horned
MIDYETTE HEREFORD FARM
5 Miles East of Tallahassee, Highway No. 90
Quality Cattle, Grass and Clover Seed

HEREFORDS
The bloodlines of champions
CONNELL STOCK FARM
INVERNESS FLORIDA

Editor’s Desk
(Continued from page 12)
France, Holland, Belgium and Germany with the Ninth Army.
He has done considerable radio pest control advisory work and has written many special articles for newspapers and magazines as well as bulletins, circulars, recommendation leaflets and other scientific papers on the subject of pest control.

Johnson, a graduate of the University of Florida, class of 1939, where he received his B. S. degree in entomology, will operate in the territory stretching from Homestead to Fort Pierce area on the east coast and from Collier City to Sarasota on the west coast.

A native of Live Oak, Johnson was born and reared on a farm and prior to attending the university, was engaged in agriculture at Pompano Beach. During the war he served in the U. S. Navy and for some time after the war was attached to silver bullion salvage operations in Tokyo Bay.

Scroggs is Vice President Of Vit-a-Way, Inc.
A nutritional and consultant service to customers will be handled for Vit-a-Way, Inc., Texas feed company, by Virgil H. Scroggs—new vice president in charge of nutrition.

Over a period of more than 20 years as a field research man for the feed and livestock industry, Scroggs’ work has become widely recognized, according to Leo Potschman, president of the company.

Raised on a wheat farm in Oklahoma, Scroggs was a 4-H member from the age of 10 to the age of 21 and a member of many winning Oklahoma judging teams. His work has taken him to three-quarters of the nation as a consultant on nutrition, farm crops and parasite control. He is an active member of the United States Livestock Sanitary Association.

Screwworm Folder Issued By California Spray-Chemical
A folder now available from the California Spray-Chemical Corporation, Orlando, gives full details and directions for effective control or prevention of screwworm infestation in livestock with Ortho 1058 Screw Worm Control.

A clear nonstaining liquid formulated with Ortho Lindane and other organic insecticides, it has been extensively tested the past three years by ranchers in the Southwest.

According to the company, the remedy drives “worms” from the wound, then kills them, and wounds are believed to heal

Florida Telephone Corporation

PANGOLA GRASS ROOTS FOR SALE
$1 per bu. if you dig; $1.25 per bu. fob Orlando if we dig. Special price on large orders.

W. K. PRICE
246 S. Orange Ph. 6385 Orlando, Fla.

POLLED HEREFORDS
Santa Fe River Ranch
A. D. & Snead Davis, Owners
ALACHUA (Alachua Co.) FIA.

SEND FOR OUR FREE CATALOGUE

FLORIDA TELEPHONE CORPORATION

REGISTERED BRAHMANS and POLLED HEREFORDS
Crane Creek Ranch
Seven Miles West of STUART, FLORIDA

ROSEMERE FARM
Thoroughbred Horses Polled Hereford Cattle
ELMER HEUBECK, JR., Manager
Telephone 1194-Green, R. F. D. 1
OCALA, FLORIDA
Carl G. Rose, Owner, Ocala, Florida

PANZER PARTY
WEDNESDAY, NOVEMBER 26
THE HENDRY CATTLE RANCH
BEUTEL, FLORIDA
This aerial photograph of Barton's livestock pavilion was taken during the Imperial Eastern Brahman Show last March and was furnished to this magazine by the Bartow Chamber of Commerce. (Photo by Robertson)

 quicker without the hazard of infection effectiveness of the chemical lasts from five to seven days, protecting wounds.

The "M" series Brushland Harrow was specifically designed with Florida conditions in mind—the tough job of reclaiming cut-over land, brush and small tree trunks, working the mass of vegetation down to the surface of the soil and preparing a usable seedbed. It may be fitted with broad mold-board scrapers for sticky soils, or with weight boxes for tough soils. The Brushland Harrow is easy to maintain, and in time, improves permanent pasture and rangeland. It has the strength and cutting power to tear up root-bound soil for the seeding of improved grasses, and the cut-away, disk blade over obstructions without delay or breakage.

Stocked in Orlando, along with the tractors to pull them.

**METHOLO CRAWL TRACTOR COMPANY**

1130 West Central Ave. Phone 2-1460

ORLANDO

FLORIDA

**ROLLER CRIMP YOUR GRAINS**

**Make 4 Bushels Do Work of 5**

- Harvest even on abraded land, dusty, cloudy, ground foods for fresh, husk, silo, rolled-grain, can be used with infielder, roller-crimper, seeders, etc., for full propagation and digestion. Full absorption helps solve early growth, faster growth, less grain, crimping makes grains bulky, doubles their reference, size for every farm - 5 to 35 H.P. $295 to $10,000, per hr. Requires only 4 power of hammermills. Wagon box loader per hour. Write for free literature and prices today!

**AGENTS:** Honest, steady profits, write for territory.

H.C. Davis Sons, Box F-1, Bonner Springs, Kansas

**POWER UNITS**

**Brand New!**

**Government Surplus**

125 volt, 60 cycle, A.C., single phase, 5 K.W. Hobart water cooled, 14 b.p. 4 cylinder Hercules Engine. Remote Control, complete panel board with instruments, 150 ft. automatic remote control cable with reed, 150 ft. No. 6 heavy duty wire with reed. House in metal case, shipped complete tools. Cable with reel alone worth $400. Regular price of unit $1000. Shipping wt. 120 lbs.

Our price f.o.b. Chicago complete...

Also 2 H.P., K.W., power plant...

**$475**

**WRITE FOR ILLUSTRATED FOLDER**

**WELLWORTH TRADING CO.**

1831 S. State St., Dept. F.G.
Chicago 16, Ill.
External Parasite
(Continued from page 14)
capture blood sucking insects such as mosquitoes or stable flies and attach
eggs to their bodies. When insects feed,
warth of animal’s blood causes eggs to
hatch and larvae begin to burrow into
the skin where they develop into adult grubs.
These grubs work their way out of the
hide, fall to the ground where they pupate.
Horse bots include three species in the
United States. Eggs are laid on hair about
nose or lips, under the throat or jaw, and
on the lower legs.
Screwworms were not found in Florida
before 1934. They attack only fresh
wounds and are not controlled by DDT
or other synthetic sprays and dips.
Mosquitoes must have water in which
to breed: tin cans and other discarded
items that may catch and hold rain water
make ideal breeding grounds.
Mange Mites include different varieties
which attack horses, hogs, dogs, cats, sheep,
cattle and man. The mites burrow in the
skin and cause severe irritation.

Control of Insects . . .
Ox warbles or cattle grubs can be con-
trolled by a mixture of: 10 pounds of
derris or cube powder (4.7 to 5.0 percent
erotenone), or 63 pounds of BHC—six per-
cent gamma isomer—to 100 gallons of wa-
ter.
(Note: Other products recommended
for spraying beef animals may be sub-
stituted for the six percent gamma isomer
BHC above. Where dairy animals are in-
volved use products recommended for
those animals.)
Horse bots are eliminated by administer-
ing through the mouth six drams of
carbon disulfide for each 1,000 pounds
body weight. Treat in November and De-
cember, to remove the larval form from
the stomach. (Consult your veterinarian
as this treatment may be drastic).
Screwworms are treated by applying ap-
proved screwworm smears or liquids to in-
juries as a preventive. Treat infested
wounds with the above, watch closely for
effectiveness of the treatment and avoid
reinfestation.
Mosquito control involves draining all
breeding areas; smashing or breaking all
unused or discarded receptacles. Crude
oils applied to breeding areas will destroy
mosquito larvae. Space spraying with five
percent DDT in kerosene is an effective
control measure for adults.
Mange Mites are controlled by using
one of the following:
Half pound 40 percent wettable chlo-
dane to 10 gallons of water, of 1.68 pounds
12 percent gamma isomer BHC to 10 gal-
lons of water.
For spraying beef cattle use one of the
following: 25 pounds 50 percent wettable
DDT to 100 gallons of water; 6\frac{1}{2} pounds wettable six percent gamma isomer ben-mee hexachloride to 100 gallons of water; 6\frac{1}{2} pounds wettable eight percent gamma isomer BHC to 100 gallons of water; 5\frac{1}{2} pounds wettable 10 percent gamma iso-mer BHC to 100 gallons of water; three pounds wettable 12 percent gamma isomer BHC to 100 gallons of water; 1.5 pounds 12 percent Lindane to 100 gallons of water, a combination of 12 pounds fifty percent wettable DDT and four pounds of six per-cent gamma isomer BHC to 100 gallons of water.

For spraying dairy cattle use 83\frac{1}{2} pounds fifty percent wettable Methoxychlor to 100 gallons of water (where only horn flies are a problem), or 25 pounds fifty percent wettable Methoxychlor to 100 gallons of water (where lice are a problem).

For dipping use one of the following: 12 pounds 50 percent wettable DDT to 100 gallons of water; 4.0 pounds six percent gamma isomer BHC to 100 gallons of water; 9.0 pounds of eight percent gamma isomer BHC to 100 gallons of water; 8.5 pounds 10 percent gamma isomer BHC to 100 gallons of water; 2.0 pounds 12 percent gamma isomer BHC to 100 gallons of water.

A combination dip composed of 8.5 pounds of 50 percent wettable DDT and 3.0 pounds 10 percent gamma isomer to 100 gallons of water. 

(Caution: If dipping vats are being charged with DDT, BHC, or Methoxychlor be sure that all residue of arsenical dips or oils that may have accumulated in the vat are washed out. Do not mix these insecticides with arsenicals or any oil solutions.

For space spraying, these chemicals are recommended: 10 pounds 25 percent gamma isomer Lindane to 100 gallons of water, applying two gallons per 1,000 square feet, obtaining a runoff to walls, ceilings, dairy barns, sheds, outside breeding areas, interior and exterior of milk houses; cover feed boxes, water troughs and milk handling utensils, barn must be free of animals; or 25 pounds Methoxychlor to 100 gallons of water. 

(Caution: Substitute 50 percent wettable Methoxychlor for DDT or BHC when dipping dairy cattle or spraying barns, etc. Do not use benzene hexachloride because of the musty odor which is absorbed by milk.

All mixtures should be water suspensions. They will control horn flies, mosquitoes, lice and ticks found on cattle and will give some control of house and stable flies. House and stable flies cannot be controlled by spraying or dipping alone. Spray barns, buildings and other roosting places of these flies.

Toxaphene and other new insecticides have not been recommended in this writing as further research work is needed to determine their effects on livestock.
Index to Advertisers

Adams, Dr. C. L. 55
Adamsom, Tom 42
Avery, W. C. 56
Avery, W. C. 43
Avery, W. C. 43
American Angus Assn 59
American Brahman Assn 12
American Lambs 12
Arcadia House 16
Avant, W. E. 62
Babcock, Vose 59
Barthleธ’s U Ranch 48
Beardwater Farms 45, 56
Beauchamp, Lamar 37
Bevall, Herman 14
Bird, J., J. 59
Blue Bell, Inc. 25
Bronze Saddle Club 50
Brown & Mako 50
Cannon Duroc Farm 55
Case, J. I. Co. 7
Cash Fed Co. 8
Caterpillar 68
Cattlemen’s Market 42
Circle 1D Ranch 60
Circle M Ranch 48
Clyder Bar Ranch 39
Coach Publications 54
Commercial Bank 55
Consell Stock Farm 50
Cooke Lawn Mower 60
Cooper, R. D. 60
Cow Capital Labs 16
Crabtree, O. 37
Crane Creek 60
Creek Farm 98, 99
Davis, W. C. 41
Dawson Mill 60
Diamond R Ranch 34
Diamond W Ranch 39
Dolomite Products 6
Duda, A. and Sons 10
DuPont, E. L. de Nemours 26
Dunnellon Farms 34
Eastern Brahman 49
Edenfield & Seal 57
Fenton’s Feeders 30
Ferguson Ranch 50
First National, Kinniside 57
First National, Leesburg 56
Fletcher, G. W. 27
Florida Angora Assn 54, 55
Florida Chemical 25
Fila, Citrus Canners 65
Fila, Favorite Fertilizer 57
Fila, Fence Post Co. 96
Fila, Co. Trade 21
Florida Hereford Assn. 59
Fitz, Land Clearing 51

Florida Power, Light Co. 64
Florida Telephone Corp. 68
Food Machinery 55
Ford Hamer Ranch 45
Fortune, Gilbert S. 12
Franklin Serum 48
Fuggle, L. T. 48
Gainesville Market 36
Gardiner, P. 22
Garrett, Mr. and Mrs. Louis 55
Gibbons Corporation 56
Glades Market 36
Golden Arrow Farms 37
Gould Ranch 40
Graham School 41
Green Rush Coop. 45
Griffin, Dr. D. W. 45
H - Bar - C. 40
Halle-Dean Seed Co. 22
Halsey & Christensfeld 40
Hardee County Market 6
Harradine Sprays 30
Harris, J. S. 44
Hatton, H. N. 41
Heart Bar Ranch 47
Henry, Col. R. W. 45
Herzberg’s 35
Hiland Acres Farm 58
Hillburno Livelocx, Inc. 22
Hodges Cutter 51
Hodges, T. D. 48
Hyer Boots 37
Isherwood, W. S. 48
Jackson Grain Co. 27
Jaco, W. 44
Johnson, Mrs. Pat 42
Justus Boots 43
Kencarlo Farms 58
Kendall, T. J. 42
Kilby Ranch 47
Kinsman Market 16
Lakeland Cash Feed Co. 36
Lakeland Market 17
Lang, T. C. 49
Leader’s Vaccines 19
Lee County Bank. 50
Leonard, W. J. 52
Lilliston Implement 16
Lisman Fertilizer 48
Listbro, G. 43
Lykes Brothers, Inc. 57
Magazine Marr. 62
Makinson, W. B., Co. 26
M-Bar-M Ranch 44
Mann, G. W., Ranch 44
Martin, E. A., Seed Co. 52
Mayo Fertilizers 15
Mellock Tractor Co. 61
Meinke Spreaders 53

Melton Hereford Ranch 58
Mendive Hereford Farm 36
Mill Pond Plantation 58
Milligan Ranch 56
Mirror Lake Farms 56
Montgomery Ranch 56
Morgan Co. 23
Murphy, Oakley 59
Naco Fertilizer Co. 17
Nocqua Root 51
Norriss Cattle Co. 66, 67
Okeechobee Market 25
Orange Groves and Stock Farm 36
O'Reilly, Eugene 44
Pan-American Zebu 49
Panama Fruit 36
Paso Packing Co. 96
People’s Bank, Lakeland 52
Perdido Ranch 36
Peters, C. C. 56
Paul’s Acres Farm 50
Pennsylvania Racing & Tack 58
Polk Brahman Farms 48
Portable Cattle Chute 35
Pride, H. H. 55
Purcell’s 38
Railton Purina 9
Richardson, A. A. 8
Riggs Hereford Ranch 57
Rosene Farm 69
Santa Fe River Ranch 48
Sampson Bros. 98
Security Mills 4
Sed & Pasture 51
Sheffield, R. M. 34
SE Fat Stock 29
Sears, Roebuck & Co. 42
Stuart, J. B. 50
Stuart, W. H. 58
Summit Ranch 46
Suwanee Drug Co. 92
Swansea Market 40
Swift & Co. 10, 11, 66
Tabb, John 5
Tackett & Branan 26
Turner, John 12
U. S. Sugar Corporation 45
V & W Farms 63
VC Fertilizer Co. 3
VanLandingham Bros. 39
V_Error Ranch 15
Walker Fertilizer Co. 29
Ward Ranch 63
Whaley Co. The 50
Williams, E. W. 59
Winn and Lovett 20
WJ Ranch 45

For the Kowbelles:

Schooldays? Here Are Some Hints

by Ethel Hales Stangl

September 1. Schooldays are here. We had Georgeanne’s heating check again the other day. We discovered last year that she didn’t hear low tones well and the doctor advised us to have her hearing checked each year to determine if it was growing worse. So far it hasn’t. We have also had Renn’s teeth, eyes, etc. checked to make sure she is physically fit to enter the first grade.

September 5. A good way to send money to school (or lunches, supplies, etc.) by young children is to seal it in an envelope. On the envelope I write the child’s name, teacher’s name, grade, amount of money enclosed and what it is for. Georgeanne’s teacher in the first grade liked this method so well that she requested the other children to follow the pattern.

September 10. I like to try out new flavorings. I’m experimenting with peppermint. We like it in ice cream. Also it gives a nice flavor to fudge cake, especially if topped with almond frosting. Associating the peppermint taste with stick candy it reminds me of Christmas holidays. They aren’t too far away.

September 16. The baby is enjoying his swing. We hung one hook for it on the back porch and another in the living room. The two afford him a change of scenery.

September 23. A neighbor is the proud recipient of a quilt top from her eighty-year old mother. The top is made from new scraps which the mother saved down through the years from dresses made for her mother, herself, her daughters and her granddaughters. When my neighbor looks at the top, studies the squares, she remembers dresses she has seen her dear ones wear and of course many pleasant memories are associated with them.

Soybeans Successful In Dade County

Since soybeans can withstand large quantities of rain and standing water and still produce a high tonnage of green matter, they are proving excellent as a summer crop on the muck soils of Dade County according to Assistant County Agent A. E. McIntyre.

This information is the result of tests run by three farmers on 17 ½ acres, using five varieties of the beans—Oototoan, Bilona, Ogden, Hayseed, and Tekie.
GRADED LIVESTOCK

RALPH HOBBIN and Guernsey cattle, springing calves, from $20 each. Write for prices, J. B. Beach & Sons, Trenton, Fla. 7859P

LAGOON BAHIA grass seed, new crop, from $20 per ton. Available for immediate shipment. J. R. Thomas, League City, Texas. 8950P

MILLIGAN RANCH, Callahan, Fla. 249T

WJ RANCH

Registered Herefords

W. J. Newman, Owner

HOLOPAW, FLORIDA

FOR SALE

Any quantity railroad rail for building cattle gaps, bulk headings, fences, gate posts, and other uses. These are the former street car rails used in Tampa. Will sell at a low price. Contact B. J. JACOBSON, 911 NEBRASKA AVE., TAMPA, FLORIDA. Phone 21139.
SPECIAL SALE
of
REGISTERED
BRAHMAN BULL
and
HEIFER CALVES

To make it unnecessary for us to carry these calves throughout the winter, we are offering them to you at greatly reduced prices. We sincerely believe it will be to your advantage to avail yourself of this opportunity. Investigate now! We have several hundred from which to select. Write, wire or telephone today!

NORRIS CATTLE CO.
R. G "Bob" Herrmann, Manager
P. O. Box 1051-"B", Telephone 1551,
OCALA, FLORIDA

SWIFT
AND COMPANY
OCALA, FLA.

Buyers of
CATTLE
AND CALVES

Buyers
Art Timerman, Phone 84 or 797, Ocala
John Carlton, Phone 33095, Lakeland
Don Stiens, Phone 84 or 388 Green, Ocala
James McNeal, Phone 84, Ocala

EDITORIALS

Scared or Not, Cattlemen Should Join

Do Florida cattlemen have to be scared to become active in the Florida State Cattlemen's Association and in their local county groups?

There is lots of evidence that they do—but there's some other evidence that FSCA keeps a goodly portion of the membership gains made in times when flood, famine and pestilence strike and membership jumps.

We believe that the affiliation of two new county associations in the past six months and the formation of another which has not yet affiliated is concrete evidence that cattlemen have learned the advantages of pulling together—and are becoming better acquainted with the work done at all times by FSCA in the interest of cattle producers. It didn't take a tick scare to form these associations. They were formed by men wanting to improve their cattle and their pastures.

Speaking before the Putnam County Cattlemen's Association recently President Irlo Bronson told its members that (1) FSCA is sponsoring a parasite project in connection with the Florida Experiment Station and (2) outlined some of the continuing work of the association.

No, there was nothing sensational about the report. But it indicated that FSCA, when more pressing problems appear to be solved, can be an effective instrument for long-range improvement in the cattle industry.

We're glad that FSCA is an aggressive organization and that its leaders believe in progress. We believe every cattlemen should be a member of FSCA, and through this affiliation take an active part in guiding association policy and instituting association projects.

Incidentally, it's not too early to be planning to attend the FSCA convention at Daytona Beach November 7-9 at the Princess Isenna Hotel. Your wife (and the kids too) can enjoy the beach. You can help build the industry.

Public Satisfied With New Stock Law

The first collision of cow with car on Florida highways since the stock law went into effect July 1 has been reported—but by and large the newspapers and the public seem to be satisfied with the way the new law is working.

And the cow men, too, are generally satisfied. For some of them it opens the way for pasture improvement which they would not have attempted before. For others it was a means of transforming poor range cattle into cash on an exceptionally good market.

Marion County cattle owners recently received an editorial bouquet from the Ocala Star-Banner which praised them for their cooperation with local authorities in enforcing the stock law.

Two weeks after the law took effect, the Star-Banner said:

"On Wednesday Sheriff Porter reported that he had received only two complaints regarding cattle since the new law went into effect July 1. He said the owners of the animals which were complained of had rounded up their cattle and removed them from the roads.

"The sheriff feels confident that the law will be very generally observed in this county. He expressed this confidence when the new legislation went into effect, and he still feels the same way. "After all, nearly everyone uses the highways these days. Cattle owners drive their own cars and trucks on the roads just as other people do, and can appreciate the need of keeping the traffic lines clear of livestock."

Yes, Some Changes Have Been Made

Sine light on the present price of beef is provided by an editorial in the Arcadian.

It seems that Hugh Martin, Arcadia grocer, unearthed an old contract dated November 1922 providing for Shell and Martin to purchase fat beef from Parker Brothers at the contract price of seven cents per pound dressed and delivered.

Just estimating roughly it would appear that good beef is bringing the Florida producer five to six times what he was now.

The Cover

Yep, they're twins. And the young fellow keeping these two-week-old calves in check is Woody Tilton, Jr., of East Palatka. The registered Brahmins are out of Miss Virginia purchased in August, 1948, by the elder Tilton at the Clover Bar Ranch sale for $550.
FROM YOUR PRESENT HERD

Brahman cattle, the world's largest popular beef breed, can produce miracles in any herd through crossbreeding. Crossbred Brahman beef is not only bigger beef, but better beef, with high dressing percentage, fine marbling, excellent quality and top market price.

You need wait no longer for purebred Brahman introduction. Due to mass production methods, we are able to offer Brahman cattle for $200 and up.

Service age bulls available. For illustrated literature and prices, write for Packet "B".

Arkansas Representative
Southern Rice Farms
Carlisle, Arkansas

NORRIS CATTLE COMPANY
R. G. "BOB" HERRMANN, Gen'l Mgr.
Box 1051, Phone 1551 Cable Address "Norca" OCALA, FLORIDA

120,000 ACRES DEVOTED TO BRAHMAN CATTLE
Adding low-cost acres for pasture...

With D6-Dozer

At an effective, profitable pace, this “Caterpillar” Diesel D6 Tractor with No. 6A Bulldozer, piles old dead-falls for burning; roots out stumps; “pulls” or pushes-out unwanted trees; grubs underbrush.

The outfit can fill stump holes and low spots, prepare the cleared land in minimum time to produce grass.

Owner Cossie Lyons, Pompano Beach, Florida, commands the land-clearing capacity and operating economy to add bargain acres — with his matched “Caterpillar” Performance Package.

His Diesel D6 has all-soil, all-weather traction to “harness” its heavy-duty power where wanted. The responsive “Caterpillar” No. 6A Bulldozer, built expressly to team with the D6, has the strength and adjustment range to use this power to full advantage.

And the Diesel D6 does a full 10 hours of heavy land-clearing work on only 30 gallons of non-premium fuel.

We have land-clearing and reclamation experience that Florida stockmen can count on. We have a full line of specialized and Florida-proved equipment, to fit the job. See us for complete information, without obligation.

Your "Caterpillar" Headquarters

GIBBS CORPORATION

JACKSONVILLE  MAITLAND  Ocala  TALLAHASSEE

CLEWISTON MOTOR COMPANY

CLEWISTON

SHELLEY TRACTOR & EQUIPMENT COMPANY

MIAMI  TAMPA