

Agriculture in Louisiana



- Commissioner Mike Strain, D.V.M.
- Deputy Commissioner Brent Robbins, D.V.M.



Jack and Jack Strain



Early Days OF AVIATION



EARLY COMPARISONS





Economic Value of Louisiana Agriculture

- Valued at more than \$11.4 billion, agriculture and forestry combined make up one of Louisiana's largest and economically dependent industries

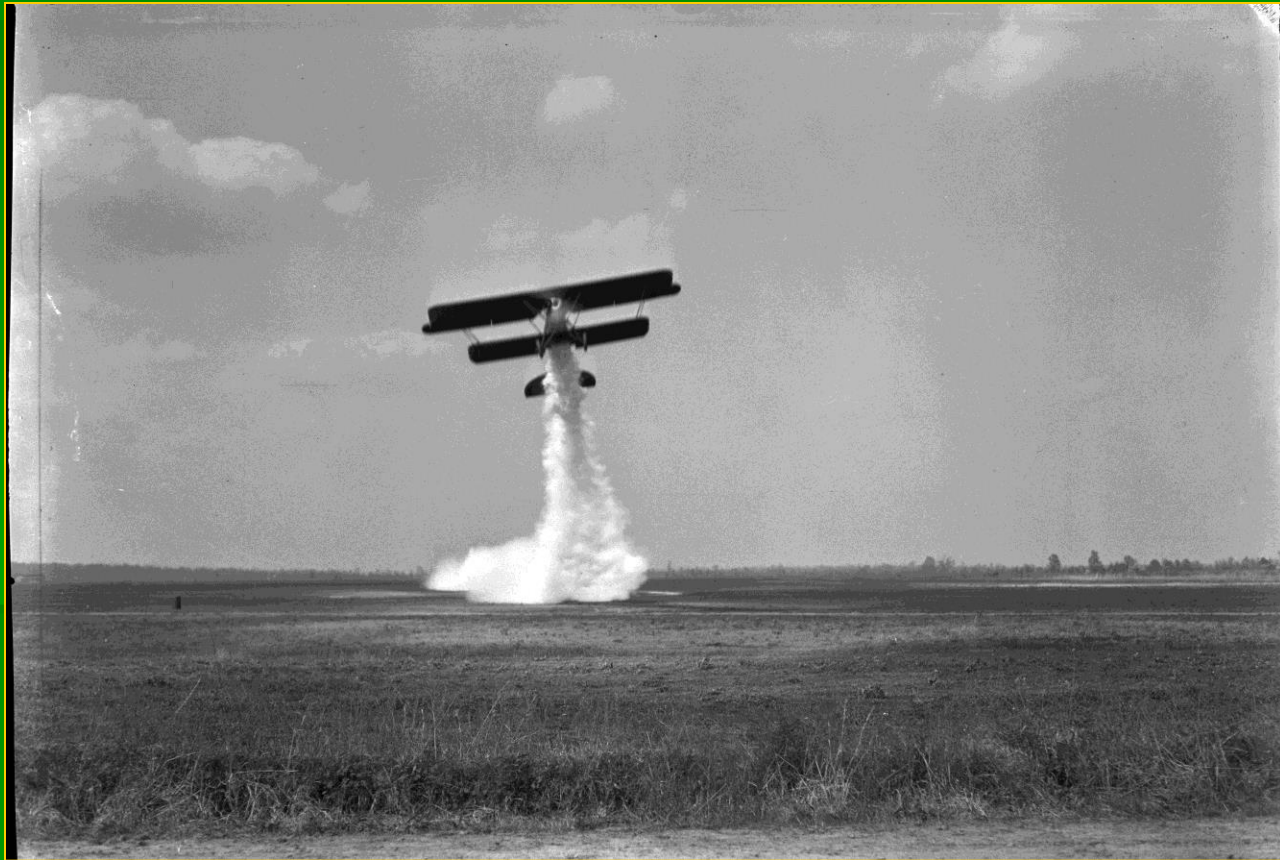


Commodity Prices

- DOW 15891.00
- Corn- \$ 4.42
- Wheat- \$ 5.90
- Beans- \$ 13.35
- Cotton- \$.87
- Sugar- \$.21 / .15
- Rice- \$ 15.59
- Ethanol- \$ 1.75-2.20
- Oil - \$ 99.94
- Gas- \$ 4.82



BRIGHT DAYS TO COME



Things are improving....

- Louisiana agriculture and forestry experienced an increase of over 7% from the year before, with a two yr gain of 27%.
- These gains were led by feed grains, sugar, cotton, wheat and soybeans.
- 2012 gains were primarily in poultry and forestry.
- 2013 US AG Record Exports \$ 140.9B

Things are improving.....

- 2013 Debt-to-asset ratio declined 0.5 points to 10.2%.
- 2013 Debt-to-equity ratio declined 0.6 points to 11.4%
- 1948-2011 Ag production grew an average of 1.49% predominately due to increased productivity.....
- Farm Services and food processing

Things are improving.....

- 2013 U.S. Net farm income up 6% \$ 120B second highest since 1973.
- 2013 Farm assets up 7.1%
- 2013 Farm equity up 7.6%

- Farmland values up:
 - Louisiana up 6.3% \$ 2,550
 - Midwest up 9.4% \$2,900 per acre
 - Iowa up 20% \$ 8,400 per acre
 - Hudson valley \$ 8-10,000 per acre

Louisiana's Top 10 Commodities

<u>Commodity</u>	<u>Total Value</u>
■ Forestry	\$2.8 billion
■ Poultry	\$1.9 billion
■ Sugarcane	\$993 million
■ Soybeans	\$805 million
■ Feed grains	\$794 million
■ Beef cattle and calves	\$561 million
■ Marine fisheries	\$523 million
■ Rice	\$483 million
■ Horses	\$472 million
■ Aquaculture	\$431 million



National Institute of Food and Agriculture
www.nifa.usda.gov

United Nations

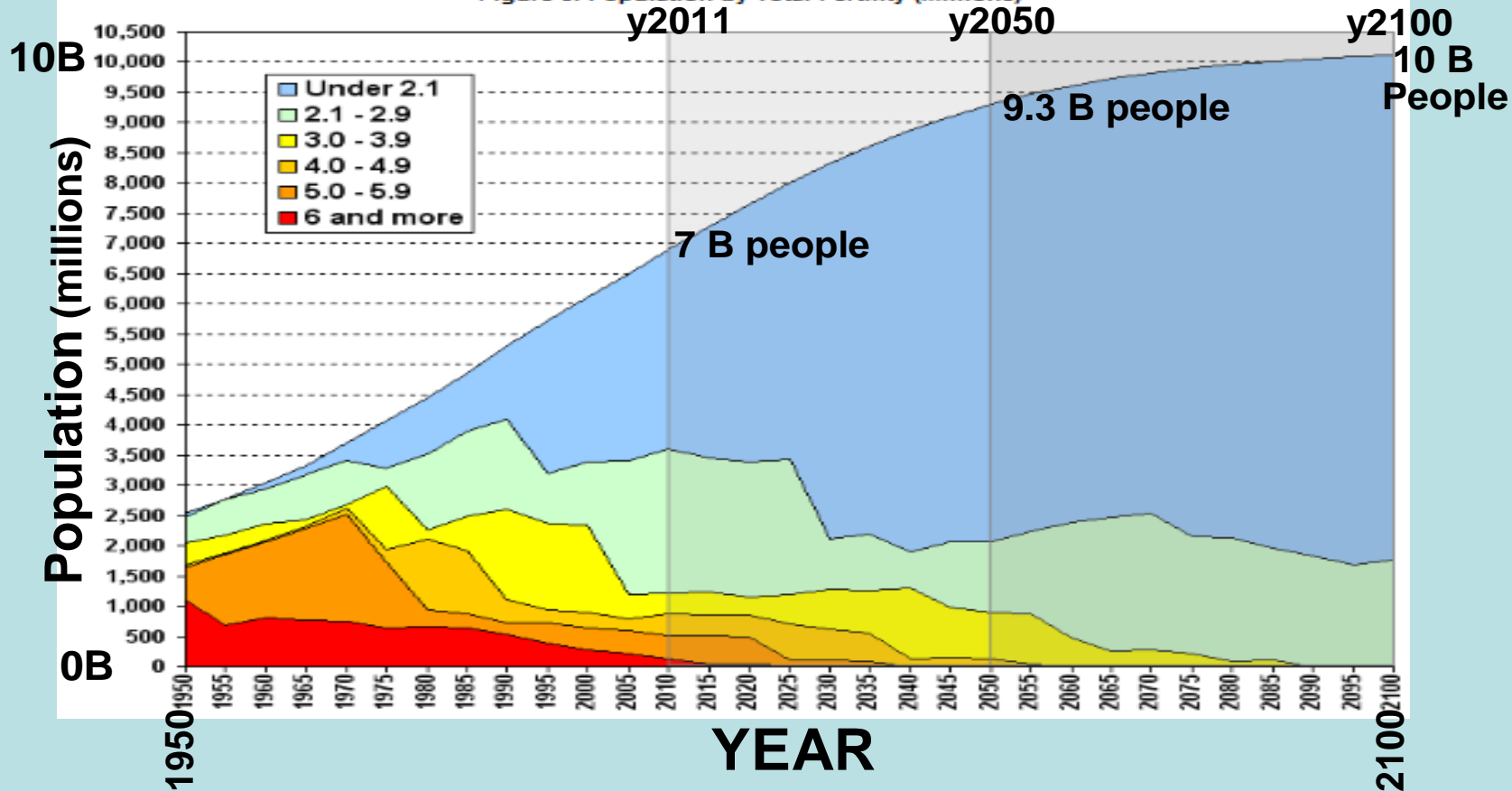
Dept of Economic & Social Affairs

INVESTING IN SCIENCE | SECURING OUR FUTURE

http://esa.un.org/wpp/Analytical-Figures/htm/fig_8.htm

World Population Prospects, the 2010 Revision

Figure 8: Population by Total Fertility (millions)



USDA FORECASTS

- 2014 NET FARM INCOME TO DECLINE
- 26.6% FROM 2013 FORECAST OF \$130.5 B TO \$95.8B
- FORECAST REMAINS \$8B ABOVE TEN YEAR AVERAGE
- CORN RECEIPTS DOWN \$ 11B
- SOYBEANS DOWN \$6B.
- COTTON TRENDING UP

WORLD AG SUPPLY AND DEMAND ESTIMATES

- **CORN: ENDING STOCKS 150M BUSHEL LOWER ON 150M BUSHEL INCREASE IN EXPORTS. PRICE TRENDING 10 CENTS HIGHER**
- **COTTON: WORLD PRODUCTION DECLINED BY 1.13M BALES, US PRODUCTION REMAINED AT 13.19M BALES. LA ACRES INCREASE TO 170k ACRES**

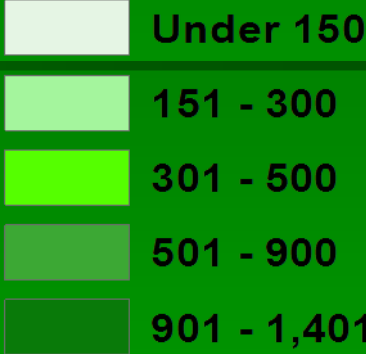
WASDA

- RICE: DOMESTIC USE OF LONG GRAIN RAISED 1M HUNDREDWEIGHT SHORT GRAIN USE LOWERED 1M HUNDREDWEIGHT, EXPORTS RAISED 1M HUNDREDWEIGHT.
- SOYBEANS: PRODUCTION UNCHANGED AT 3.3B BUSHELS, EXPORTS UP 15M BUSHELS TO 1.51B

WASDA

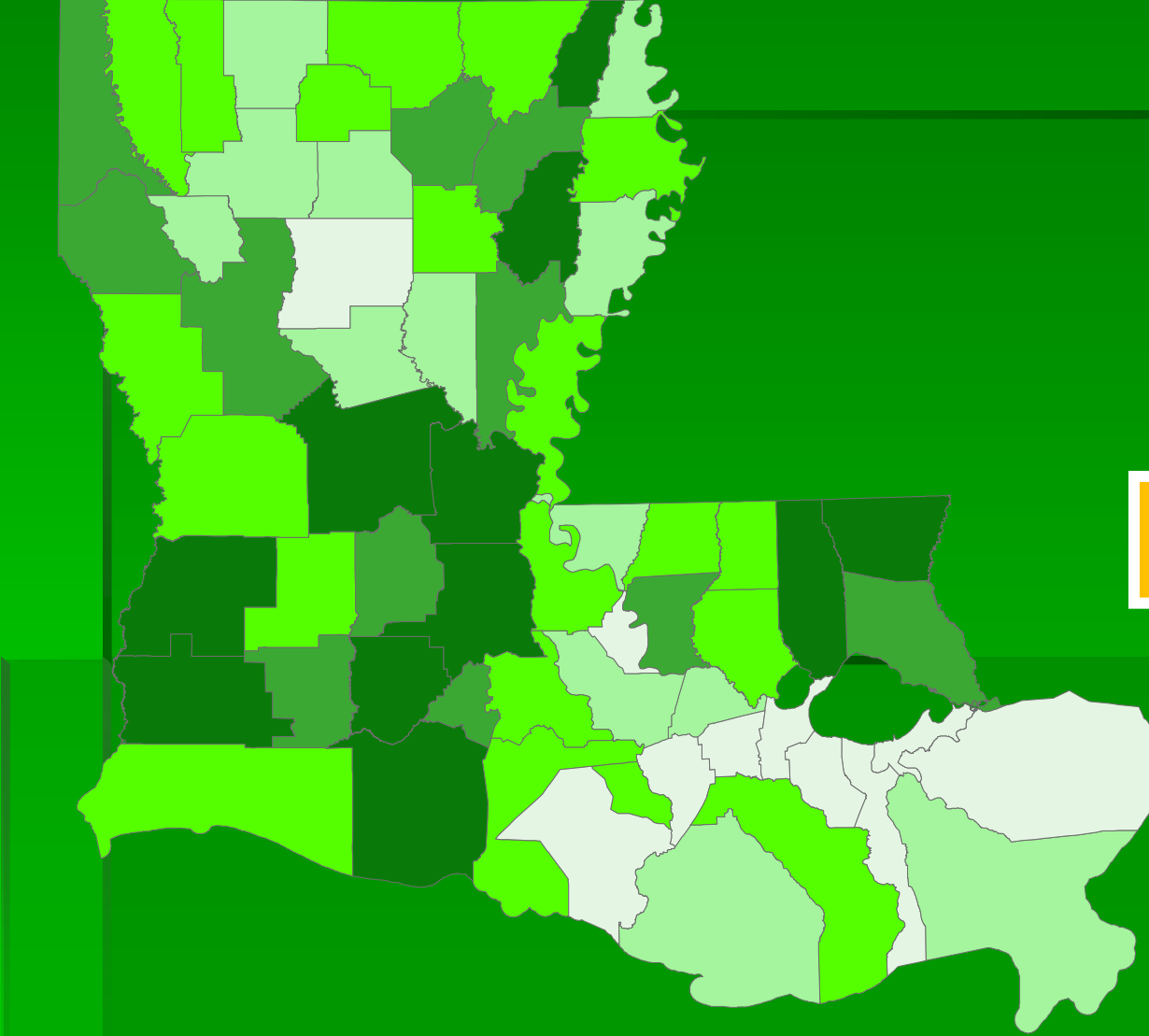
- US SOYBEAN STOCKS REMAIN AT 150M BUSHEL.
- GLOBAL SOYBEAN PRODUCTION RAISED 900,000 TONS UP 1M TONS.
- WHEAT: US STOCKS PROJECTED 50M BUSHEL LOWER ON HIGHTER DOMESTIC USE AND EXPORTS.

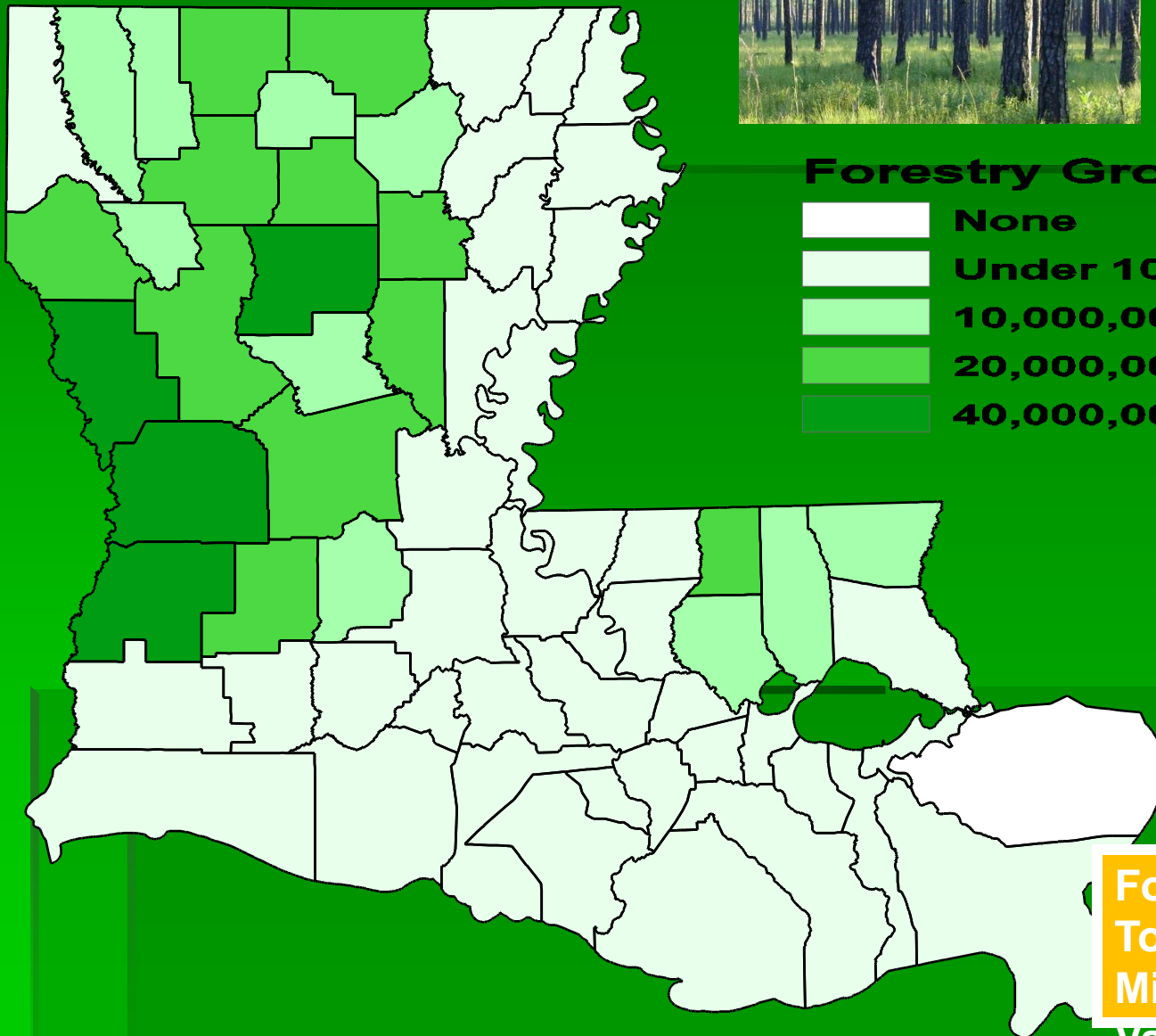
Number of Farms





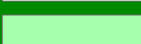

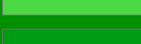
Producers/Farms: 29,000
LA AG 2012 Value: \$11.4 Bil.

Farm acreage: 8.1 Mil. A
Total LA land: 27.7 Mil. A
Mean farm size: 269A





Forestry Gross Farm Value (\$)

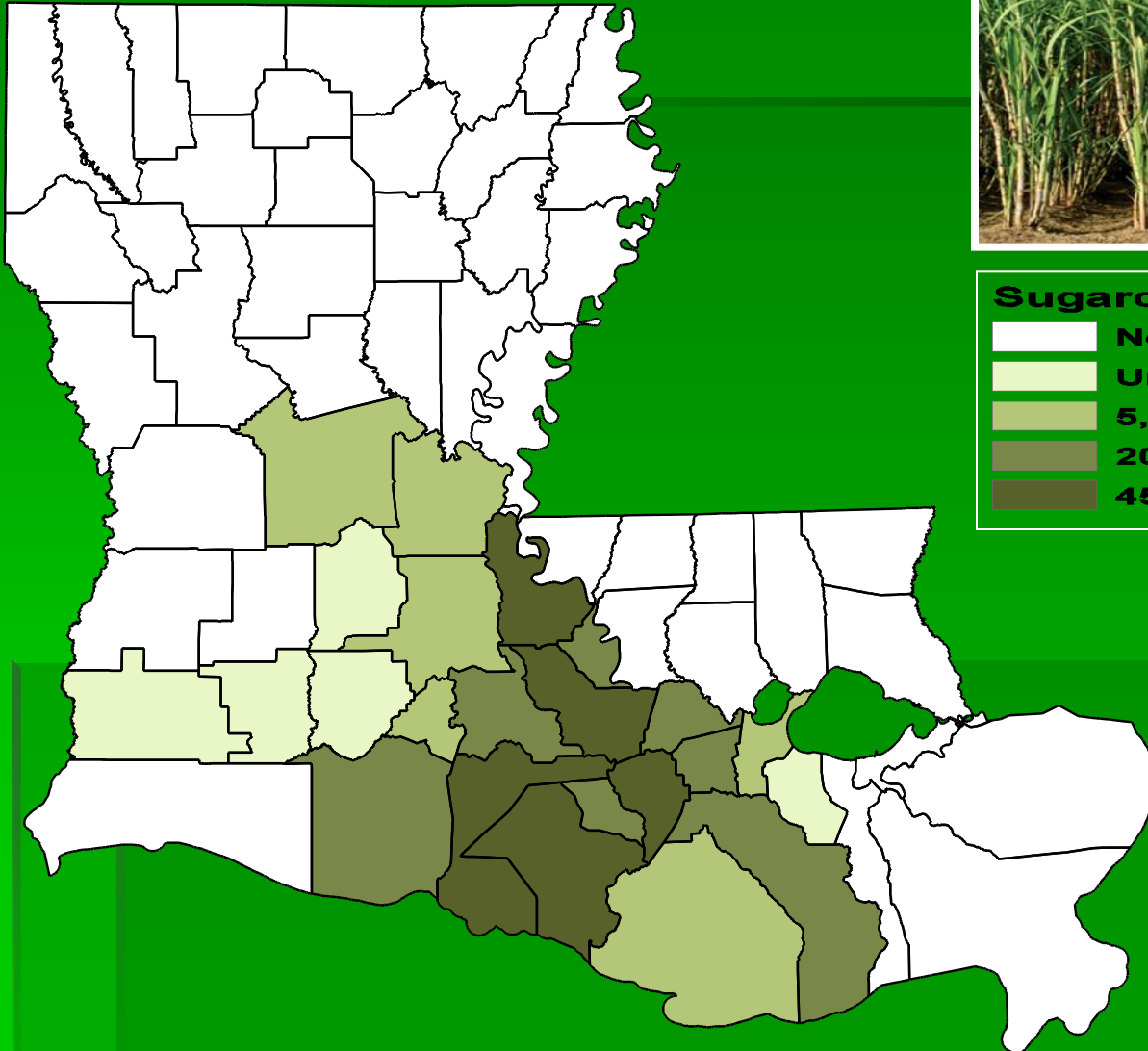
	None
	Under 10,000,000
	10,000,001 - 20,000,000
	20,000,001 - 40,000,000
	40,000,001 - 55,353,021

Forest acreage: 14 Mil. A
Total land in state: 27.7
Mil. A
Value: \$2.846 Bil.




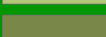
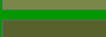
Sugarcane

- Was first brought to Louisiana by Jesuit priests in 1751
- Etienne de Bore produced the first successful crop
- New sugarcane varieties have improved production
- During early years of cultivation, the average yield of sugarcane ranged between 16 and 20 tons per acre
- Today, yields range from 30 to 50 tons per acre
- The sugarcane industry contributes \$2 billion to the Louisiana economy
- Louisiana ranks 2nd in total US production as of 2008





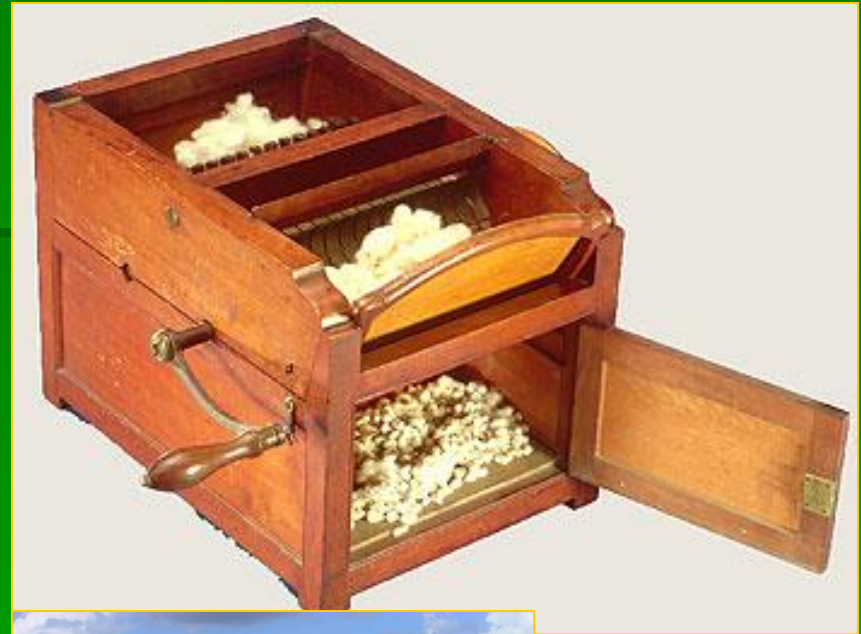
Sugarcane Gross Farm Value (\$)

-  None
-  Under 5,000,000
-  5,000,001 - 20,000,000
-  20,000,001 - 45,000,000
-  45,000,001 - 72,268,067

**Producers: 483/ 22
Parishes
Acreage: 427,000
Yield : 37 T/A
Value: \$992.8 Mil.**

Cotton

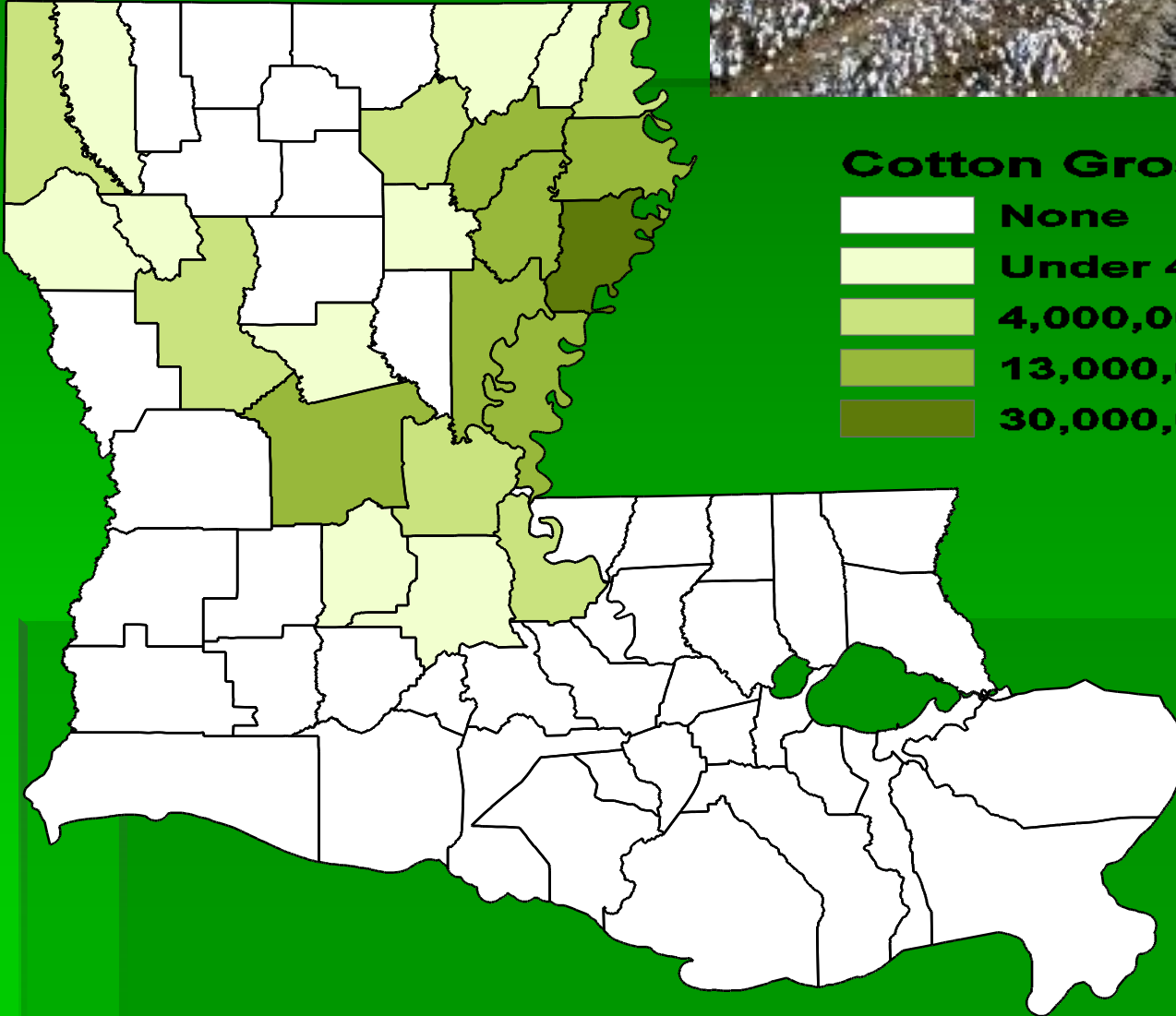
- Cotton has been grown since 4,000 B.C. in India
- The first cotton cultivation in Louisiana is reported in 1729
- In 1793 Eli Whitney invented the cotton gin allowing cotton to become a cash crop for Louisiana
- By 1860, the United States was producing 75 percent of the world's cotton with a majority of it being exported to Europe



Cotton

- In 1890, the boll weevil arrived from Mexico
- Many farmers were forced out of the cotton business which led to the development of the chemical insecticide industry
- In 1927, the cotton picker was invented and could replace more than 100 hand laborers
- There are 415 producers in the state; 2013 value production was \$279 million





Cotton Gross Farm Value (\$)

- None
- Under 4,000,000
- 4,000,001 - 13,000,000
- 13,000,001 - 30,000,000
- 30,000,001 - 62,123,107

Producers: 415
Acreage: 125,095
Yield (I/NI): 1248 lb/A
Value: \$278.2 Mil.

Sweet Potatoes

- Sweet potatoes have been grown in Louisiana since at least 1910
- In Louisiana, they are also referred to as “yams” shortened from the African slaves term “nyami”
- George Washington Carver made 100 new products from sweet potatoes including flour, ink, starch, synthetic rubber, tapioca, vinegar
- Sweet potatoes became a cash crop in Louisiana in the 1930s



Sweet Potatoes

- Louisiana produces 20.3 percent of the annual US production of sweet potatoes
- In 2013, the sweet potato industry contributed \$79 million to Louisiana's economy
- The sweet potato industry is the largest vegetable enterprise in the state



Crawfish

- The commercial sale of crawfish in Louisiana began in the late 1800s from the Atchafalaya Basin
- In the years following the Great Depression, crawfish sold for 4 cents per pound
- With the development of cold storage and improved transportation, crawfish consumption moved to higher-volume markets
- The creation of wire crawfish traps also resulted in more efficient methods of harvest



Crawfish

- Louisiana is the largest producer of crawfish in the United States and harvests approximately 182,000 acres
- Louisiana usually accounts for 85-95% of total US production from year to year
- Two species dominate crawfish aquaculture: *Procambarus clarkii* (red swamp crawfish) and *Procambarus zonangulus* (white river crawfish)
- Other aquaculture include alligators, turtles, oysters, crabs
- 2013 Value \$ 153M



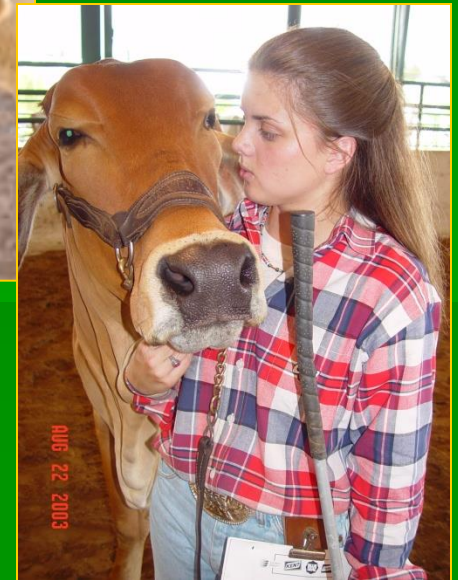
Soybeans

- Believed to be introduced to the American colonies in 1765 as “Chinese vetches”
- Most of the early soybeans were used for forage rather than harvested for seed
- Soybean acreage increased slowly until World War II when trade routes were disrupted and the US looked for alternatives to imported edible fats and oils
- There became an immediate need for soybean oil and meal
- Louisiana is one of major southern soybean producing states
- 1.1M Acres/ \$ 805M



Cattle

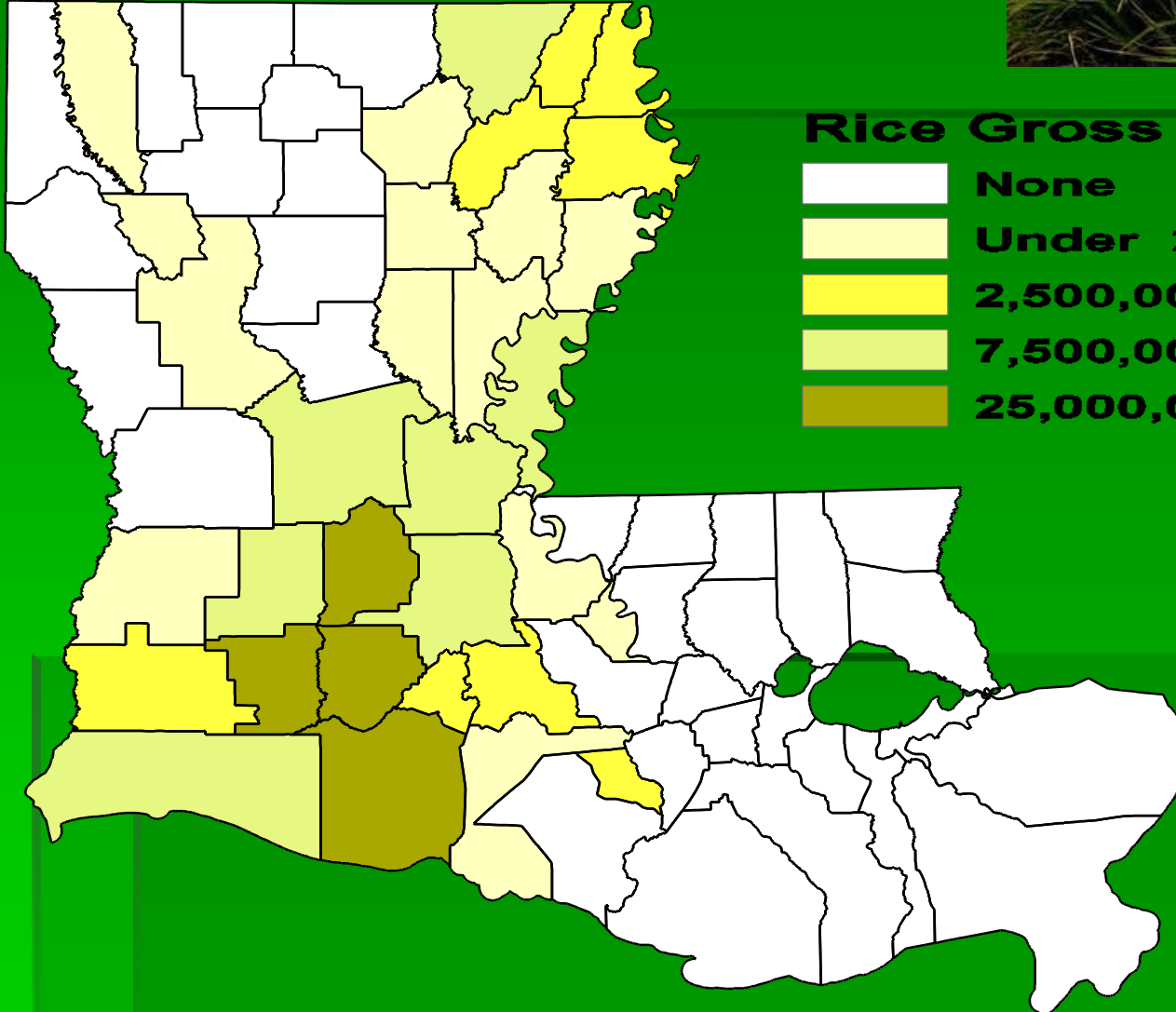
- Welsh, Louisiana was the birthplace of the Louisiana cattle industry
- The Avoyelles Indians were the first to use the long-horned Spanish cattle prior to the 1640s
- There are 11,000 farms/ ranches
- Total value of beef production in 2013 was over \$ 562 million There are 16,000 dairy cattle in Louisiana and 135 Grade A dairy herds
- Dairy cattle in Louisiana production 219 million pounds of milk



Rice

- Rice came to the US in 1685
- By the late 1800s, Louisiana became a major rice-producing state
- There are 1030 producers in Louisiana that produce 2.6 billion pounds of rice
- Louisiana is the 3rd largest producer in the US
- The 2013 value of rice production in Louisiana was \$483 million





Rice Gross Farm Value (\$)

- None
- Under 2,500,000
- 2,500,001 - 7,500,000
- 7,500,001 - 25,000,000
- 25,000,001 - 76,544,298

Producers: 1030
Acreage: 391,036
Yield : 6,604 lb/A
Value: \$482.8 Mil.

Corn, poultry, pork, equine

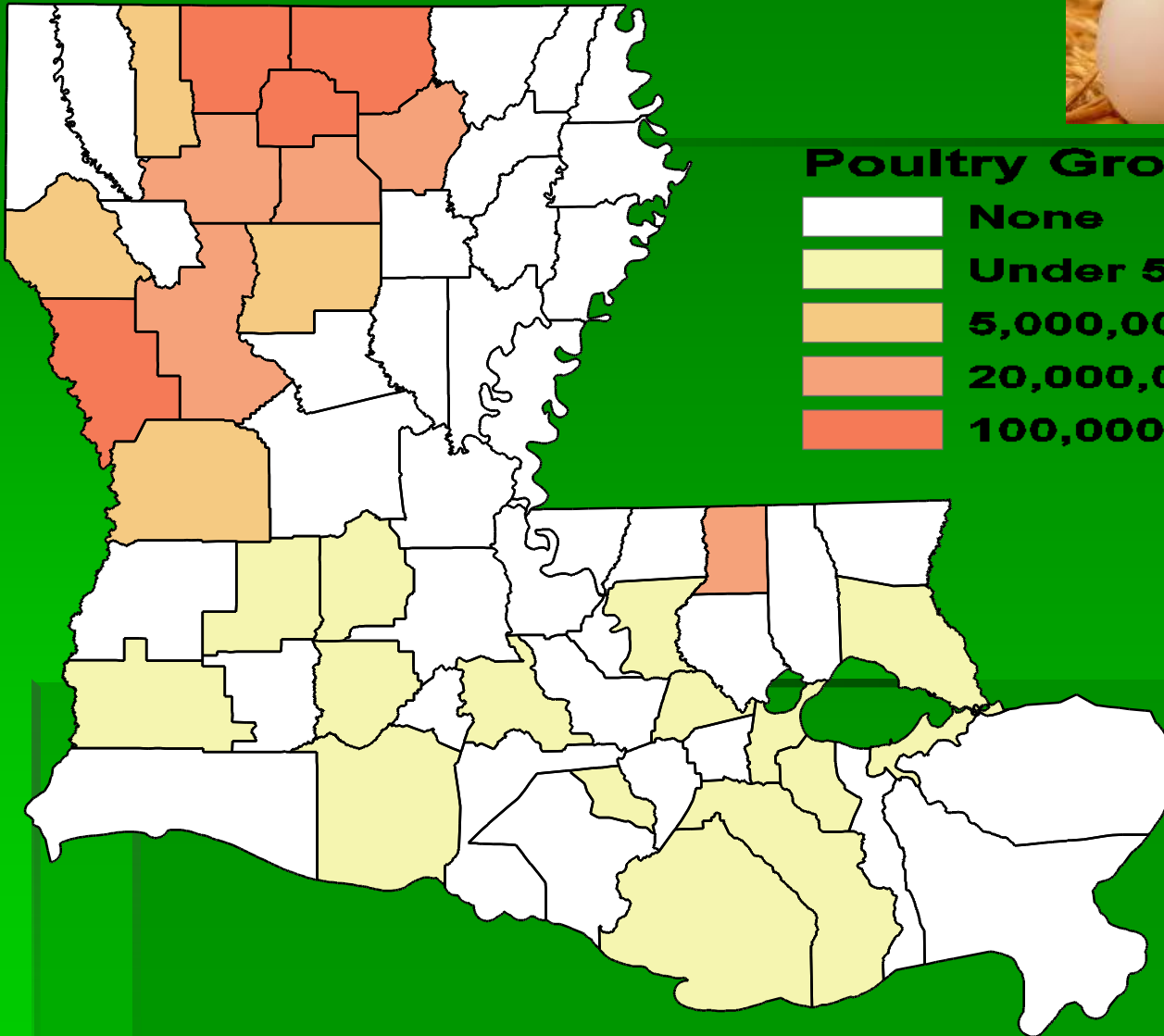


- Corn, poultry, pork, and horses all played a vital role in Louisiana's agricultural history and still play a major role today...

CORN

- Developed by Native Americans
- 670,000 Acres
- Average yield 173 bushels/acre
- Total production 116 million bushels up 26 percent from 2012





Poultry Gross Farm Value (\$)

- None
- Under 5,000,000
- 5,000,001 - 20,000,000
- 20,000,001 - 100,000,000
- 100,000,001 - 226,939,517

Egg Producers: 519
Broiler Producers: 373
Breeder Producers: 234
Pullet Producers: 31
Value: \$1.9 Bil.

URBAN AGRICULTURE



LOUISIANA NUTRIENT MANAGEMENT STRATEGY

it takes a watershed community to manage nutrients



If nutrient criteria is mandatory, this could cost Louisiana agriculture almost **\$400 million annually**

- According to the LSU AgCenter:
 - Restricting N levels at 10-30% could result in losses of \$153.7-256.0 mil. for total state acreage.
 - Restricting P levels at 10-30% could result in losses of \$57.6-206.1 mil. for total state acreage.
 - Restricting combine N + P levels at 10-30% could result in losses of **\$170.5-340.8 million** for total state acreage.

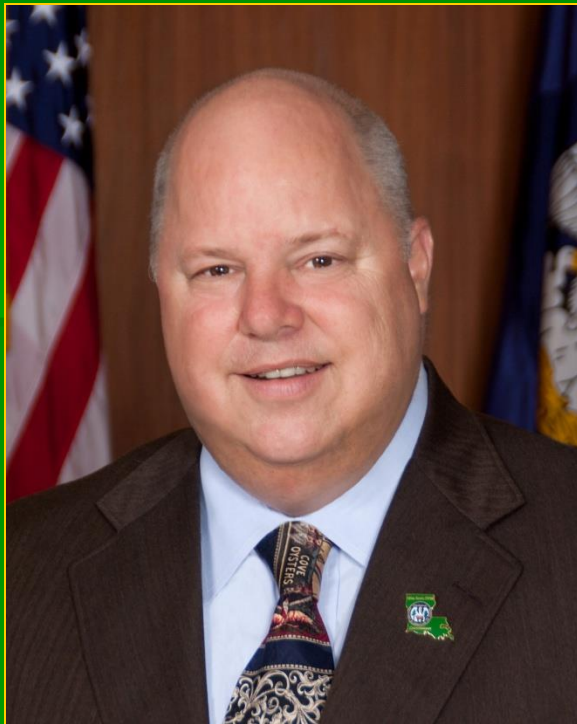
FEDERAL ISSUES

- FARM BILL
- FSMA
- FDA/USDA-FOOD ANIMALS/ANTIBIOTICS
- IMMIGRATION
- EPA
- OBAMACARE



Louisiana Department of Agriculture and Forestry

- Year founded 1884
- Commissioner of Agriculture and Forestry, Mike Strain, DVM



- Commissioners of Agriculture and Forestry
- Mike Strain 2008-Present
- Bob Odom 1980-2008
- Gilbert Dozier 1976-1980
- Dave L. Pearce 1960-1976
- S.J. McCrory 1956-1960
- Dave L. Pearce 1952-1956
- W.E. Anderson 1948-1952
- Millard Perkins F-May 1948
- Harry Wilson 1916-1948
- E. O Bruner 1911-1916
- Charles Schuler 1906-1911
- J.G. Lee 1900-1906
- Leon Jastremski 1899-1900
- J.G. Lee 1896-1899
- A.V. Carter 1894-1896
- H.C. Newsom 1892-1894
- T.S. Adams 1890-1892
- T.J. Byrd 1884-1890

Value added products

- Kleinpeter Farms
- McIlhenny Farms
- International Paper
- And many more



THANK YOU...

