# 2017 Georgia Ag Forecast



College of Agricultural & Environmental Sciences UNIVERSITY OF GEORGIA



## Welcome

Kent Wolfe

#### Director,

## UGA Center for Agribusiness & Economic Development



College of Agricultural & Environmental Sciences UNIVERSITY OF GEORGIA



## Local Welcome

Rolando Orellana Cobb County Agricultural & Natural Resources Agent, UGA Cooperative Extension



College of Agricultural & Environmental Sciences UNIVERSITY OF GEORGIA

## Summary of 2017 Georgia Agricultural & Agribusiness Outlook

### Ben Campbell, Assistant Professor, UGA CAES Department of Agricultural & Applied Economics



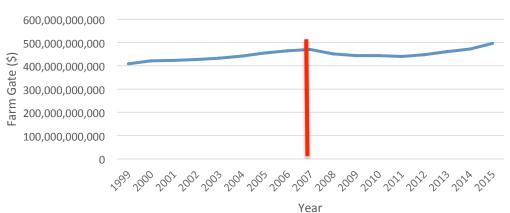
#### **The Green Industry**

Production, distribution, wholesale retail and services

Nursery and Greenhouse

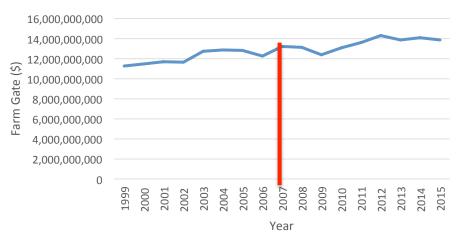
Floriculture

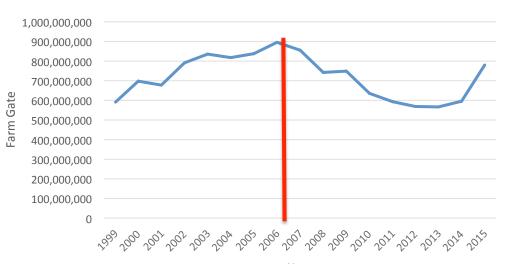
Turfgrass



#### Georgia State Product



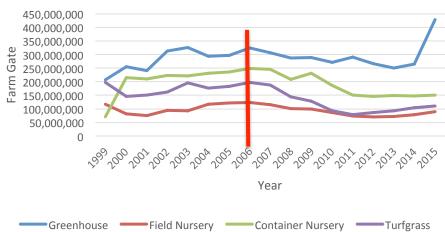


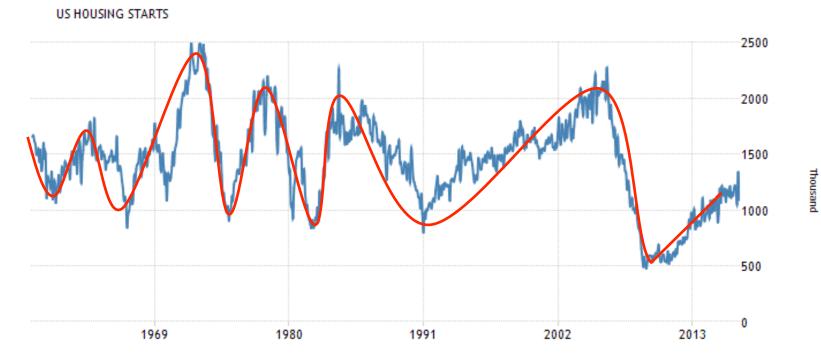


#### **Environmental Horticulture**

Year

**Environmental Horticulture Sectors** 

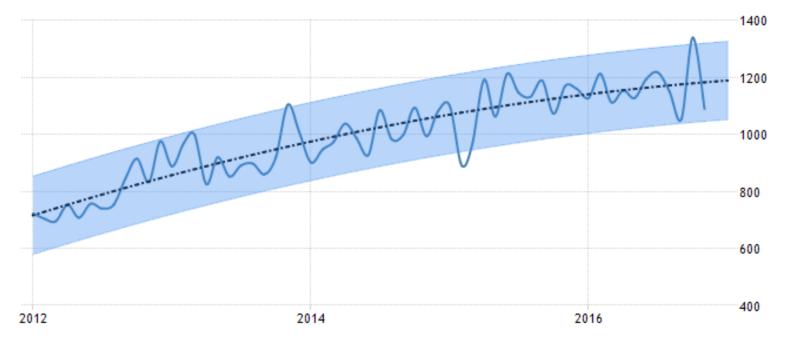




SOURCE: WWW.TRADINGECONOMICS.COM | U.S. CENSUS BUREAU

## **Housing Starts**

US HOUSING STARTS



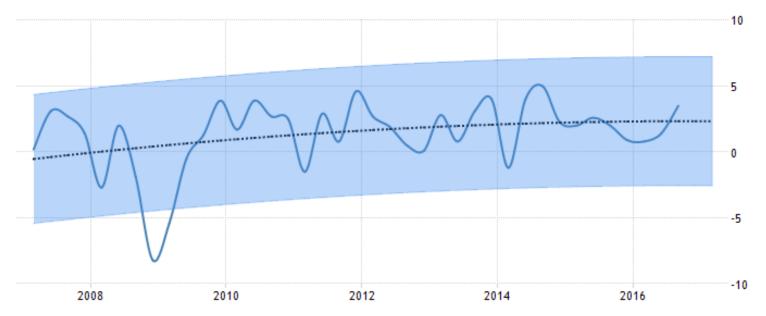
SOURCE: WWW.TRADINGECONOMICS.COM | U.S. CENSUS BUREAU

	Table 1. New Privately-Owned Housing Units Authorized in Permit-Issuing Places												
	US	Northeast	MidWest	South	West								
2014-2016	11%	4%	13%	9%	18%								
2015-2016	4%	-19%	31%	5%	-1%								

## U.S. Dept. of Housing and Urban Development

## **US GDP**

US GDP GROWTH RATE

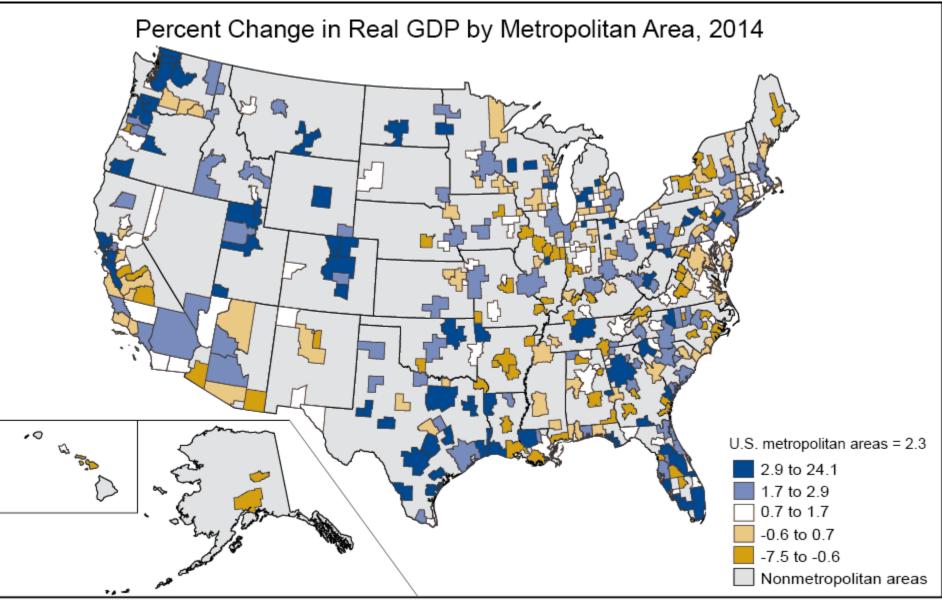


SOURCE: WWW.TRADINGECONOMICS.COM | U.S. BUREAU OF ECONOMIC ANALYSIS

#### Georgia Gross State Product

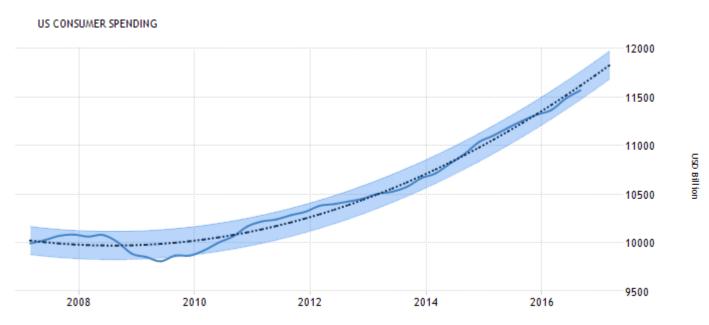
Year	Percent
2005	2.9
2006	1.9
2007	2.4
2008	-1.9
2009	-3.1
2010	13.1
2011	1.4
2012	0.9
2013	2
2014	2.3
2015	0.7
2016	2.1
2017	2.6

http://www.usgovernmentspending.com/ compare\_state\_spending\_2017bZ0a



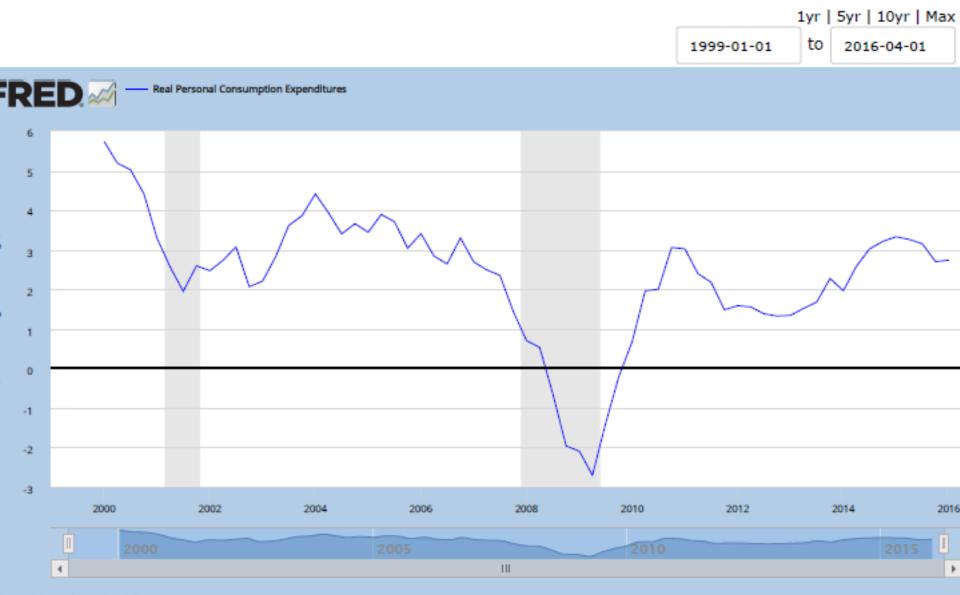
U.S. Bureau of Economic Analysis

## **Consumer spending**



SOURCE: WWW.TRADINGECONOMICS.COM | U.S. BUREAU OF ECONOMIC ANALYSIS

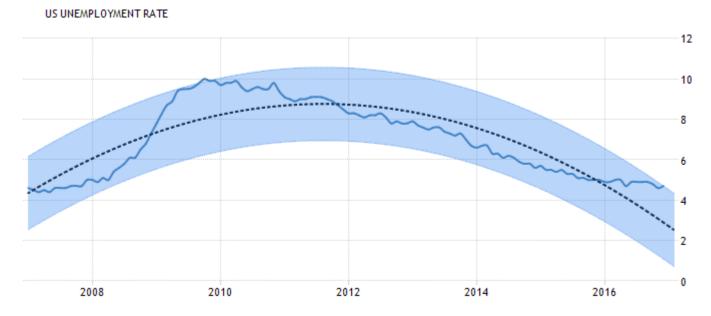
#### aph: Real Personal Consumption Expenditures



iource: US. Bureau of Economic Analysis

esearch.stlouisfed.org

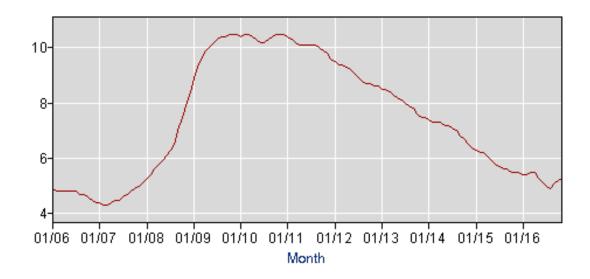
## **US Unemployment Rate**



SOURCE: WWW.TRADINGECONOMICS.COM | U.S. BUREAU OF LABOR STATISTICS

## Georgia

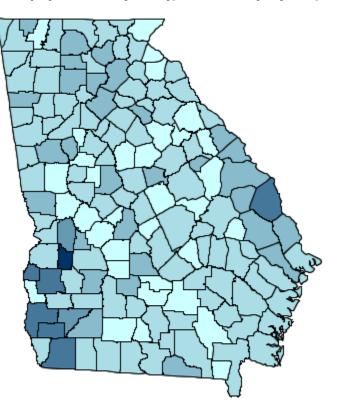
unemployment rate

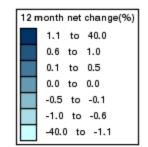


U.S. Bureau of Labor Statistics

#### Unemployment rate by county 2015 to 2016

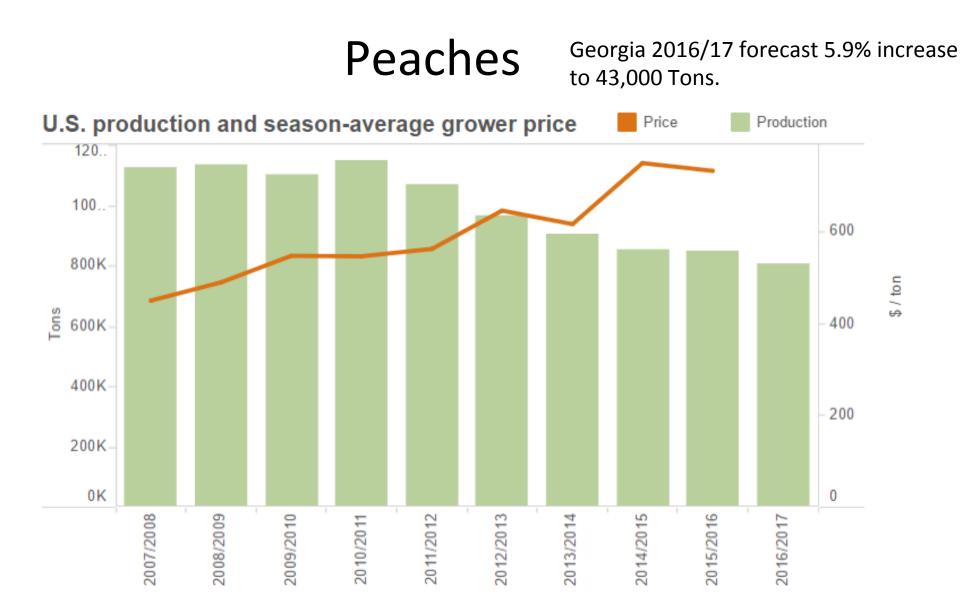
12-month change in unemployment rates by county, not seasonally adjusted, Georgia April 2016

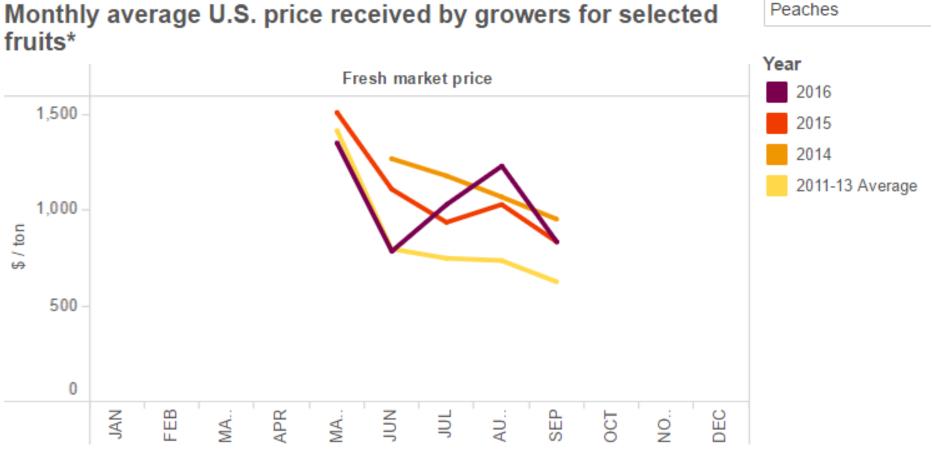




- Expect limited growth in 2017
  - Industry goes as economy and weather goes
  - Weak economic growth for Green Industry in 2017
  - 1—2% growth most likely
  - Price competition
  - Other factors:
  - Household incomes slow, but upward growth for GA incomes
  - Political
  - New administration and single party controlled government
  - Weather (hoping for dry weekends during the spring)
  - Forecast is for normal spring weather
  - Input costs: especially water and labor

## **Fruit and Vegetables**

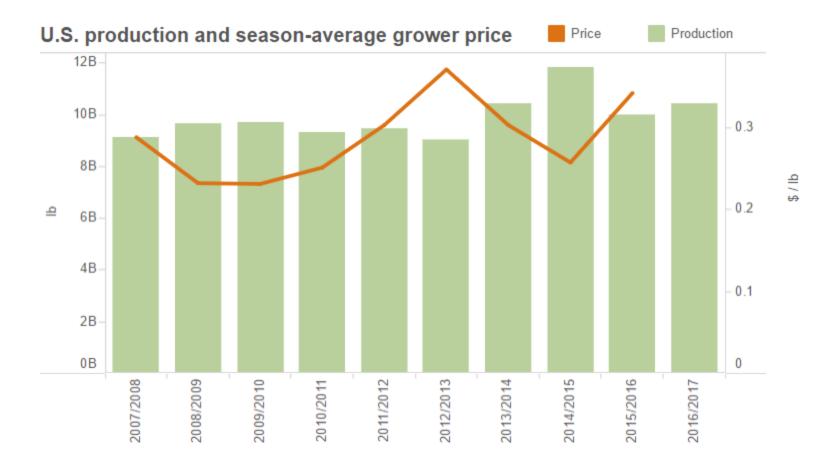




Monthly average U.S. price received by growers for selected

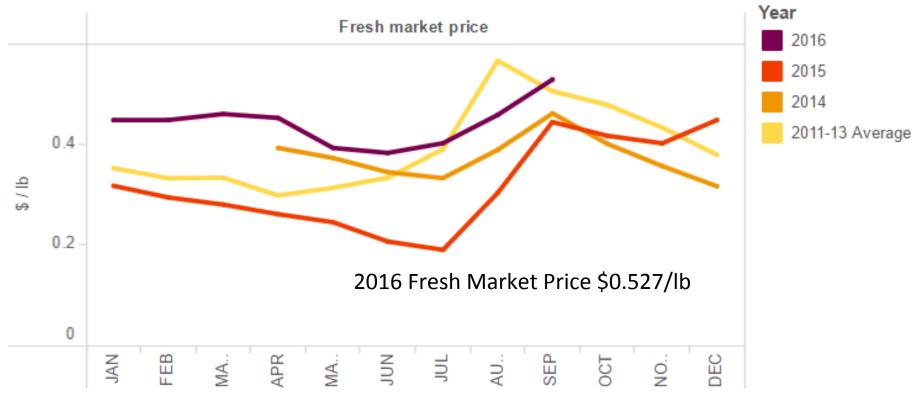
Source: USDA Fruit-tree-nuts Market-outlook

## Apples

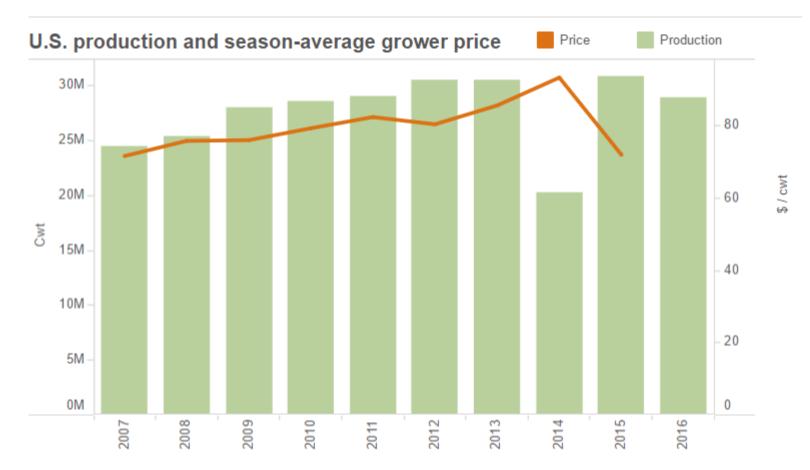


## Apples

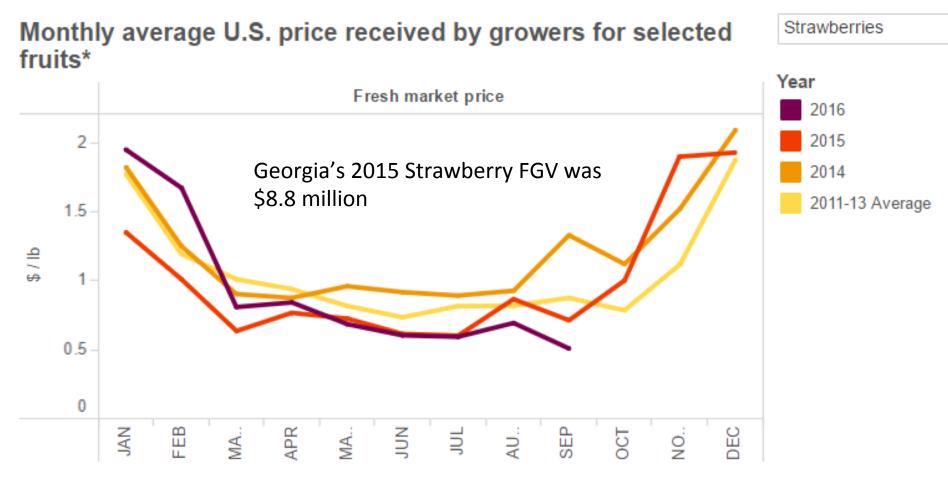
Monthly average U.S. price received by growers for selected Apples fruits\*



## Strawberries

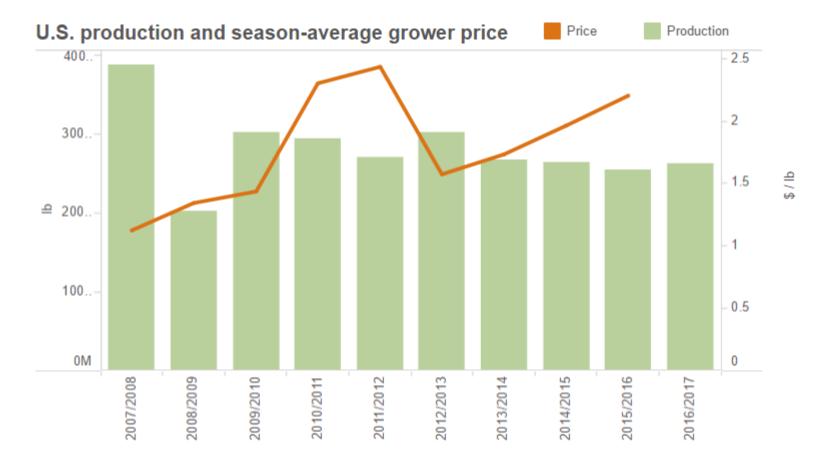


## Strawberries

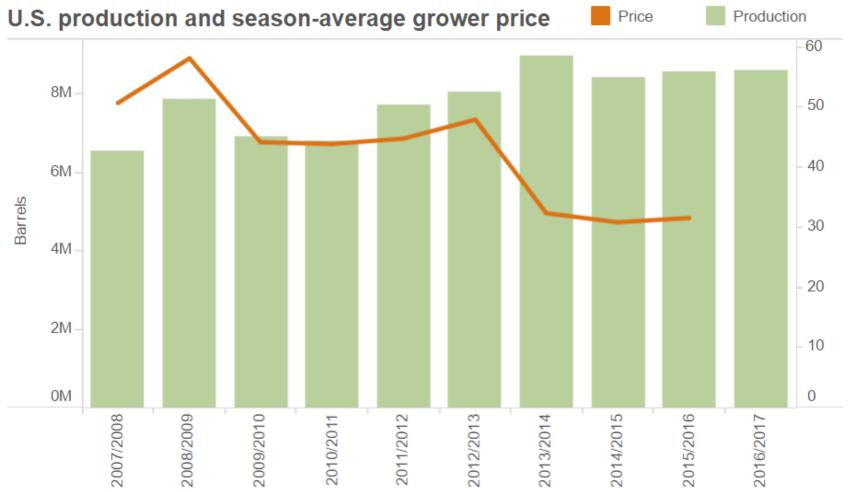


### Pecans

### Georgia 2016/17 forecast 5.4% increase to 98 million pounds.



## Grapes

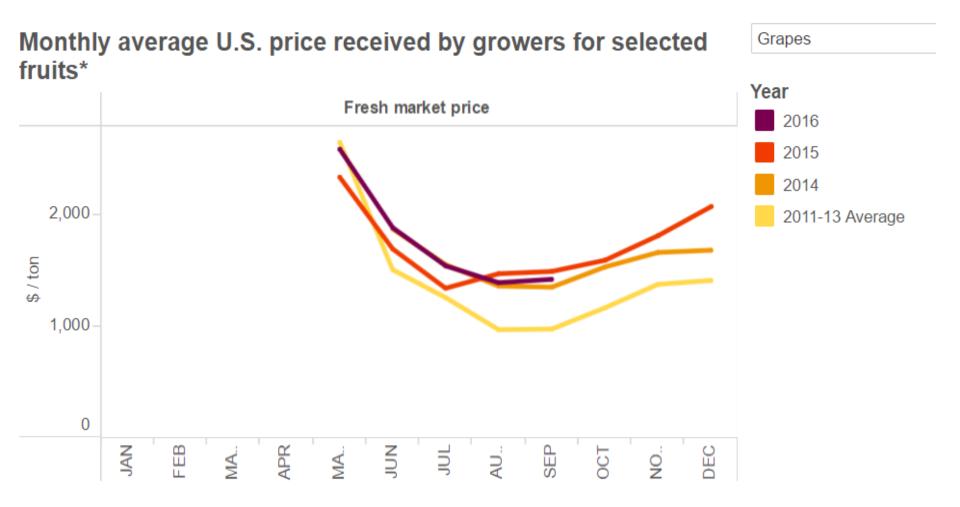


\* Unlike other commodities in this report, strawberries and sweet cherries are on a calendar year. Source: Economic Research Service, USDA, National Agricultural Statistics Service: *Noncitrus Fruits and Nuts Summary, Citrus Fruits Summary* and *Crop Production.* 

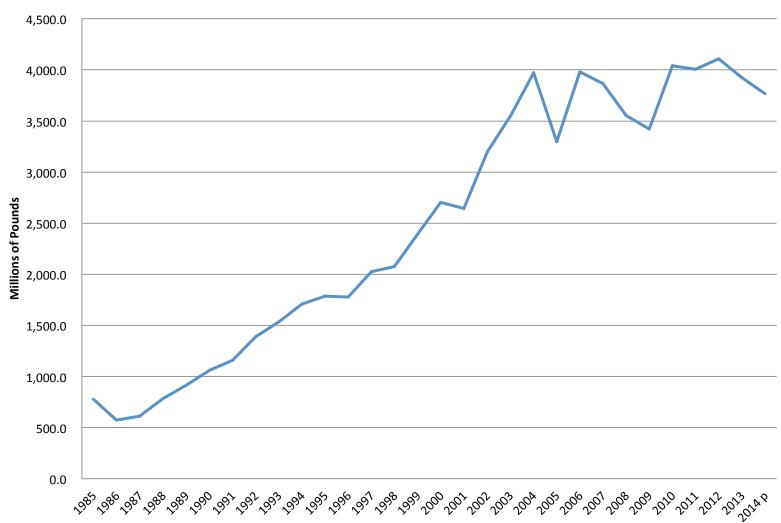
#### Source: USDA Fruit-tree-nuts Market-outlook

\$ / barrel

## Grapes



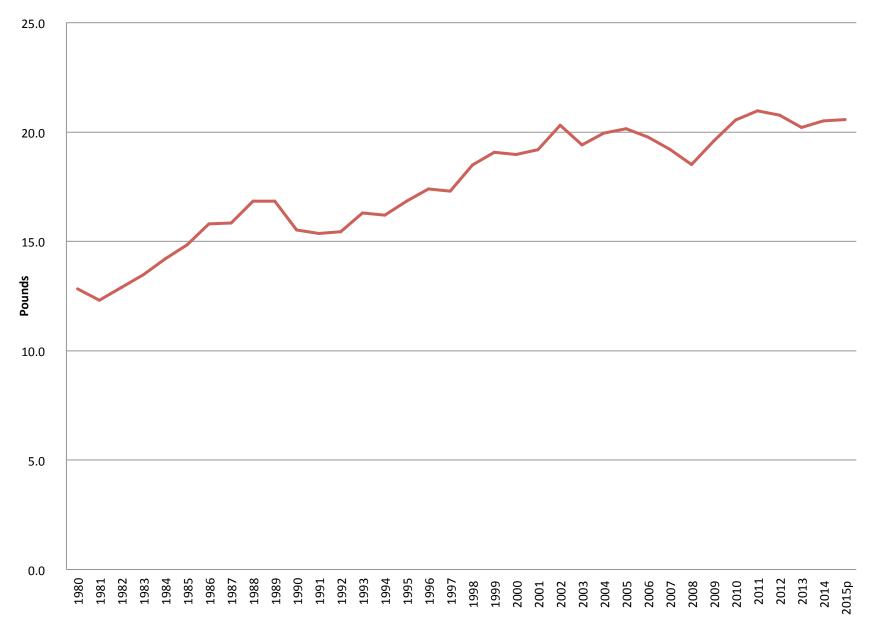
Source: USDA Fruit-tree-nuts Market-outlook



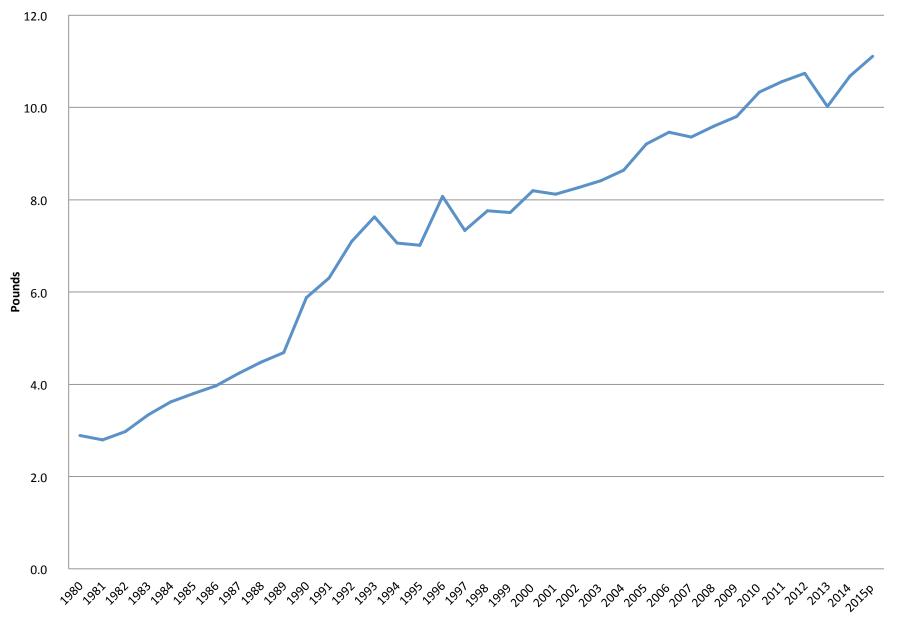
#### Leaf and Romaine Lettuce Production

Table Commercial Fresh Tomato Production in the US by State.																	
	Al	AR	CA	FL	GA	IN	MI	NJ	NY	NC	ОН	РА	SC	TN	тх	VA	Tot.
Year	Year (1,000 of Pounds)																
98	192	336	10,320	13,952	910	240	483	741	462	616	735	528	896	850	140	1,151	32,552
99	215	338	12,220	15,820	1,110	240	494	504	357	713	1,028	570	828	828	192	1,558	37,015
00	242	150	12,760	15,760	1,365	248	408	720	540	696	1,125	840	884	1,131	182	1,485	38,536
01	212	299	11,340	14,908	1,716	281	378	714	480	832	1,947	537	1,088	561	180	1,850	37,323
02	351	336	12,600	13,975	1,650	248	420	759	378	891	2,479	731	837	1,462	240	2,120	39,477
03	330	384	10,200	14,190	1,530	233	484	682	322	896	1,155	242	1,023	1,610	169	1,824	35,274
04	342	137	13,020	15,120	986	224	546	690	360	775	1,106	330	1,050	900	116	2,090	37,792
05	341	414	11,200	15,540	2,142	180	440	600	360	960	2,145	311	390	936	150	1,924	38,033
06	402	306	11,480	13,475	2,016	110	460	522	400	1,088	1,980	368	480	1,190	110	1,887	36,274
07	501	149	11,100	13,321	1,800	150	506	595	432	957	630	420	238	1,159	143	1,526	33,627
08	475	279	11,655	10,458	840	144	546	624	513	1,088	723	352	488	1,120	130	1,316	30,751
09	403	64	11,310	12,298	1,260	120	600	638	350	1,122	1,002	289	385	1,360	140	1,440	32,781
10	410	187	11,780	8,555	NA	108	440	624	392	704	783	198	425	1,426	NA	945	26,977
11	438	230	13,135	9,120	NA	84	528	609	432	1,408	635	173	566	1,045	NA	1,012	29,415
12	416	285	11,340	9,600	NA	112	520	567	546	1,073	425	192	825	950	NA	1,302	28,153
13	297	150	10,200	9,010	440	153	576	588	446	1,040	595	310	630	1,122	90	744	26,391
14	420	153	10,175	9,240	575	152	466	624	312	850	954	415	896	1,326	78	644	27,280
15	385	152	9,424	9,499	918	50	780	653	299	1,023	886	389	864	1,003	81	620	27,026

#### Tomato per Capita Use



#### **Bell Peppers Per Capita Use**



## Summary of 2017 **Georgia Agricultural & Agribusiness Outlook** Kent Wolfe, Director, UGA Center for Agribusiness & Economic Development





- Economic Outlook and Meat Complex Dairy Timber
- Honey



## Economic Outlook

- US and Georgia Economies
- World Economy
- Trade Environment
- Renegotiating existing and pending trade deals



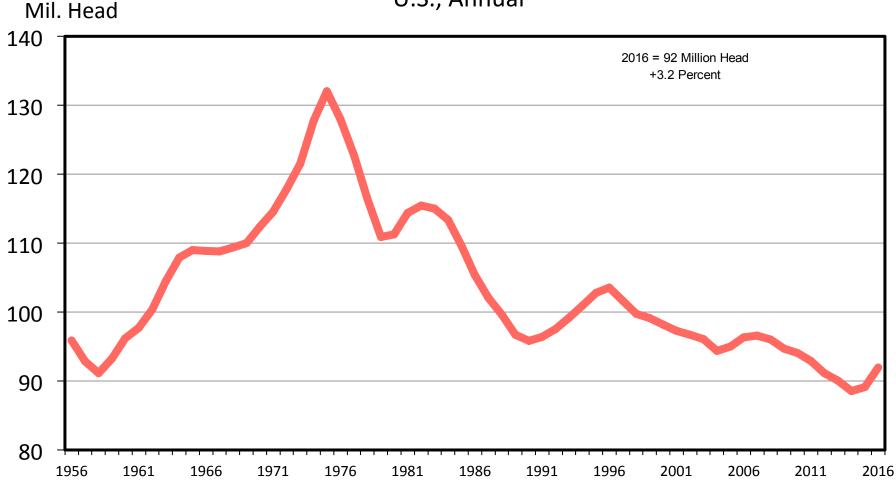
# **Beef Cattle**



#### **JANUARY 1 TOTAL CATTLE INVENTORY**

C-N-01 08/04/16

U.S., Annual



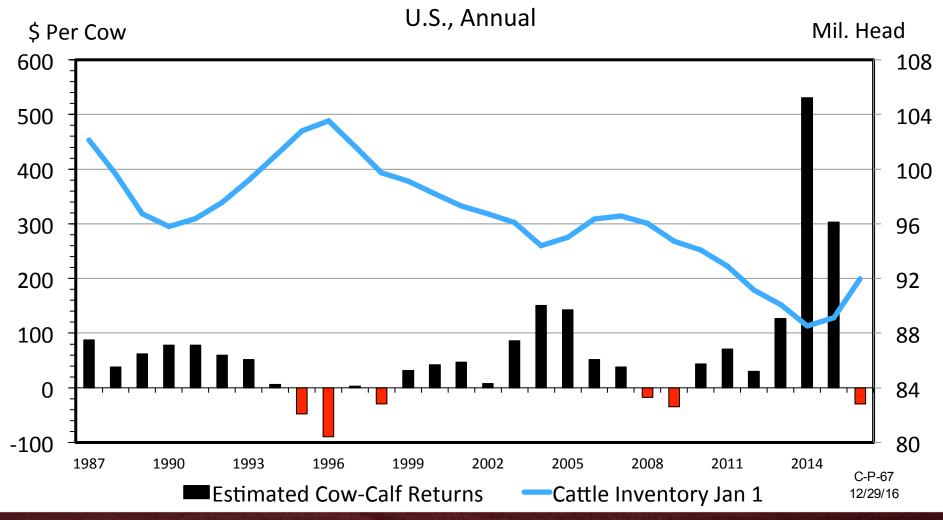
Data Source: USDA-NASS

2017 Georgia Ag Forecast

Livestock Marketing Information Center



#### **COW-CALF RETURNS AND CATTLE INVENTORY**



Data Source: USDA-AMS & USDA-NASS, Compiled and Analysis by LMIC

**Livestock Marketing Information Center** 

2017 Georgia Ag Forecast



#### **Beef Outlook Summary**

Continue to see a return to "normal" supply, demand, and trade fundamentals

Expect a seasonal price pattern consistent with current prices

Negative profits on average nationwide -> end of expansion

Expect to turn the corner on the cattle cycle which will help prices going into 2018

Recovery in pasture conditions will dictate profitability in much of Georgia

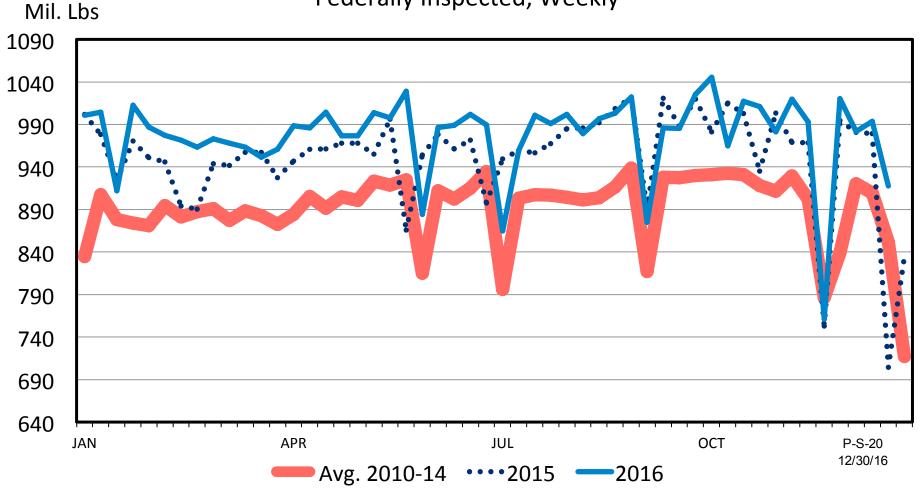


# Poultry



#### **BROILER PRODUCTION**





Data Source: USDA-AMS & USDA-NASS Livestock Marketing Information Center

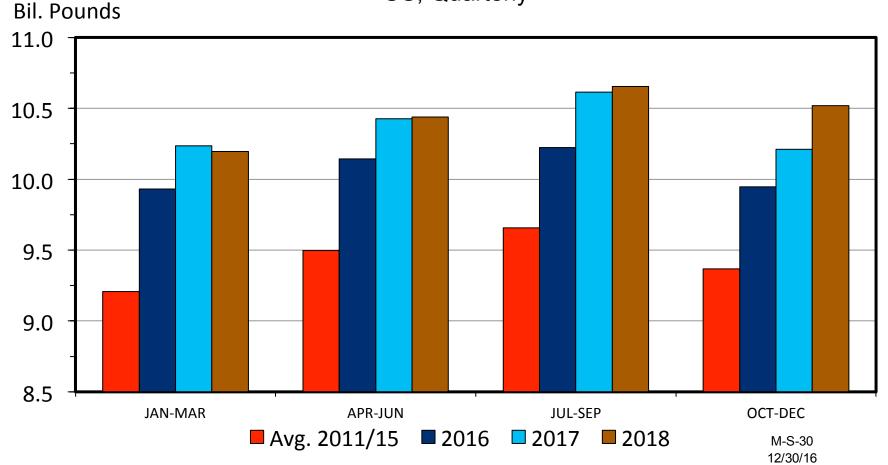
2017 Georgia Ag Forecast





#### **RTC BROILER PRODUCTION**

US, Quarterly



Data Source: USDA-NASS, Forecasts by LMIC

**Livestock Marketing Information Center** 



#### **Poultry Outlook Summary**

Expect continued increases in production, but slower growth than previous year

Exports will be even more important in 2017 due to higher production, but expect higher domestic supplies

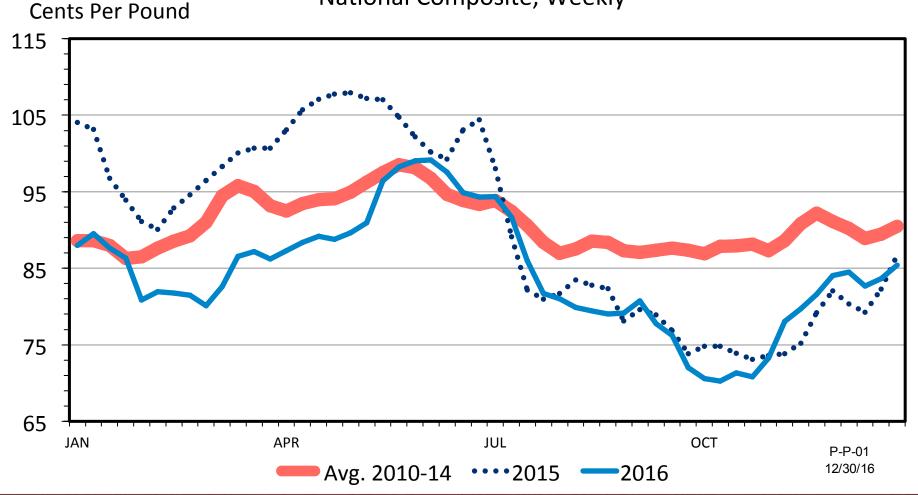
Competing meats will add downward pressure to prices

Continued low feed costs will ultimately determine profitability in 2017



#### **BROILER PRICES**

#### National Composite, Weekly



Data Source: USDA-AMS

**2017** Georgia **Ag Forecast** 

**Livestock Marketing Information Center** 

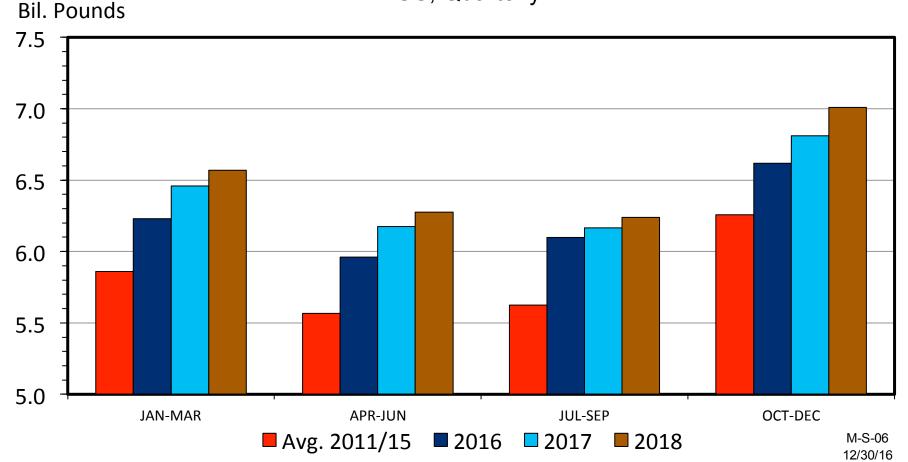


# Hogs



#### **COMMERCIAL PORK PRODUCTION**

US, Quarterly



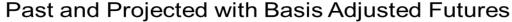
Data Source: USDA-NASS, Forecasts by LMIC

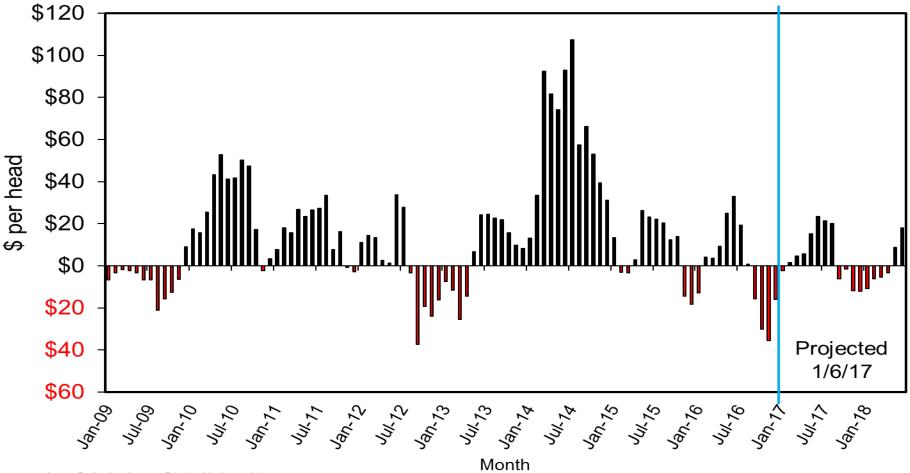
**Livestock Marketing Information Center** 

**2017** Georgia **Ag Forecast** 



Estimated Returns to Farrow to Finish, Iowa





Source: Lee Schulz, Iowa State University



#### **Hog Outlook Summary**

Slower growth in production assisted in part by increases in packing capacity

As with other meats, increasing production of competing product will put negative pressure on prices

Exports will be a key factor in buoying prices, in addition to a willingness of domestic consumers to absorb increasing supplies

Likely to see a recovery in profits early in the year with feed costs expected to catch up later in the year



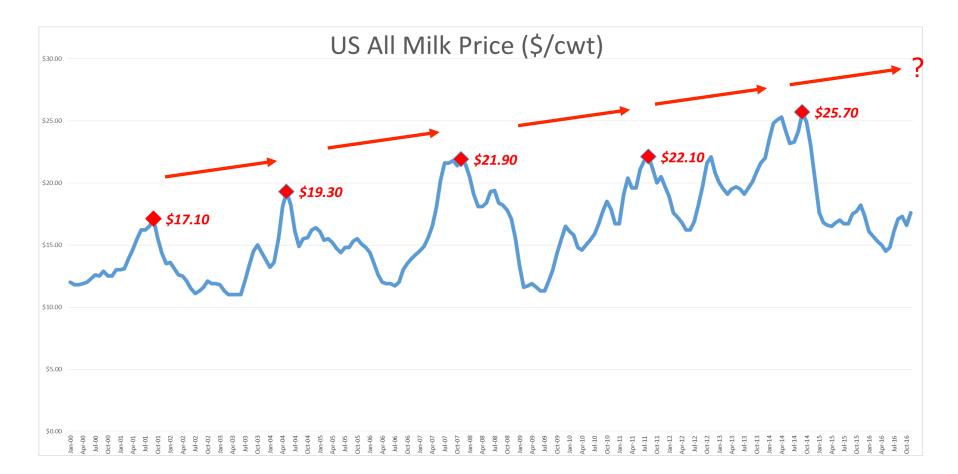
## DAIRY



The university of georgia College of AGRICULTURAL  $\mathcal{E}$  ENVIRONMENTAL SCIENCES



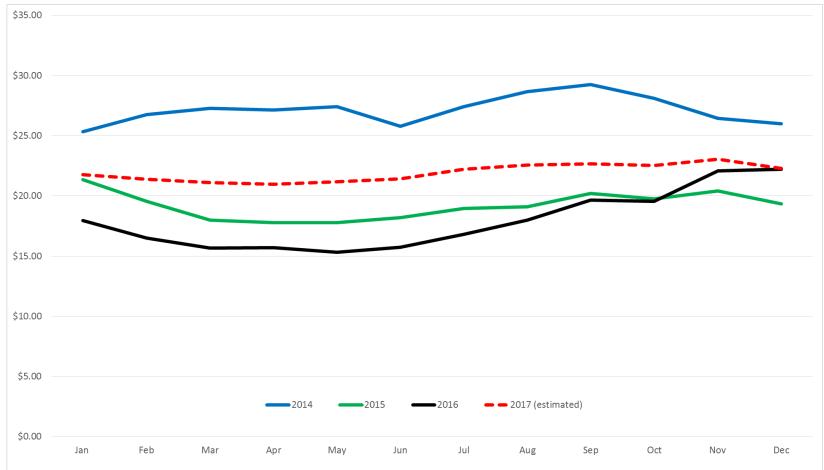
### All Milk Price: 2000 - 2016





### **Georgia Mailbox Prices**

**2017** Georgia **Ag Forecast** 





## Dairy Summary

- Feed Prices Remain Favorable
- Commodity Stocks (Cheese and butter) are still high but not alarmingly so.
- Export demand shows signs of improvement
- Global dairy prices show signs of strengthening









## Row Crop Outlook

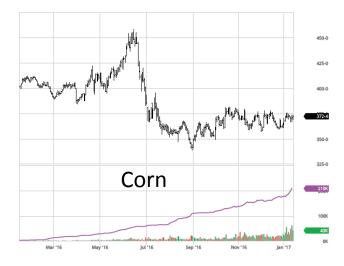
- Corn
- Soybeans
- Wheat
- Cotton

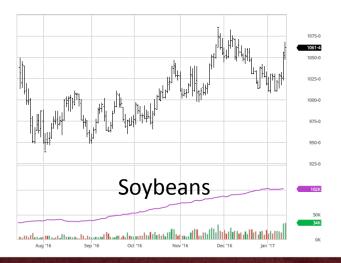


## 2017 Inputs Outlook

- Seed prices: minor changes, estimate 1% increase
- All fertilizers down from year ago, likely hit bottom in 2016 (budgets: N = \$0.42, P = \$0.39, K = \$0.28)
- Diesel fuel down from year ago, hit bottom in 2016 and expected to increase through 2017
- Chemicals mixed (some up, some down)
- Machinery, up 1.5% from last year
  - Labor rates are about same as last year





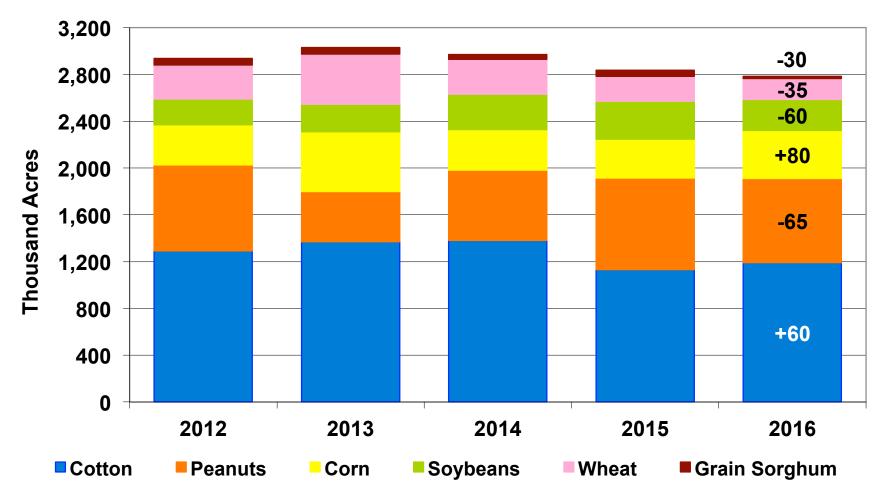








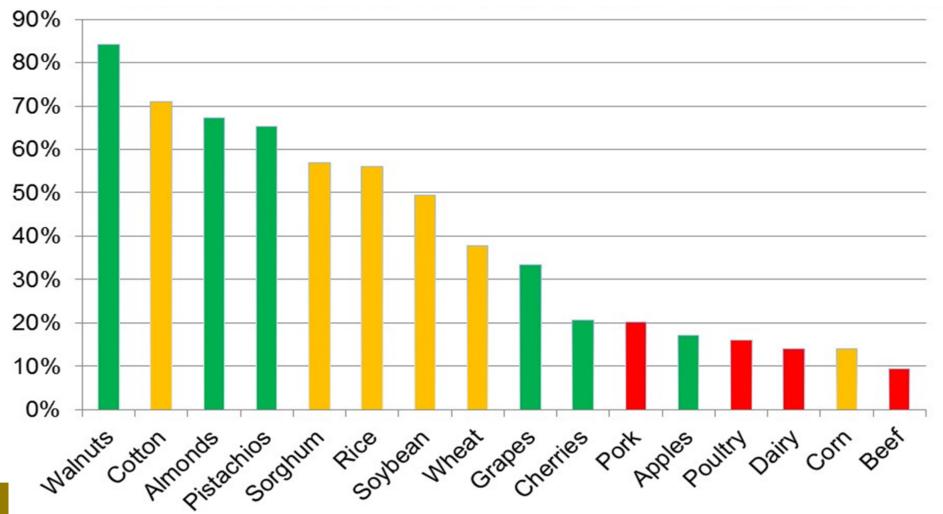
Planted Acres of Select Row Crops in Georgia and Change from 2015





### % of U.S. Ag Production Going to Exports

**2016** Georgia Ag Forecast

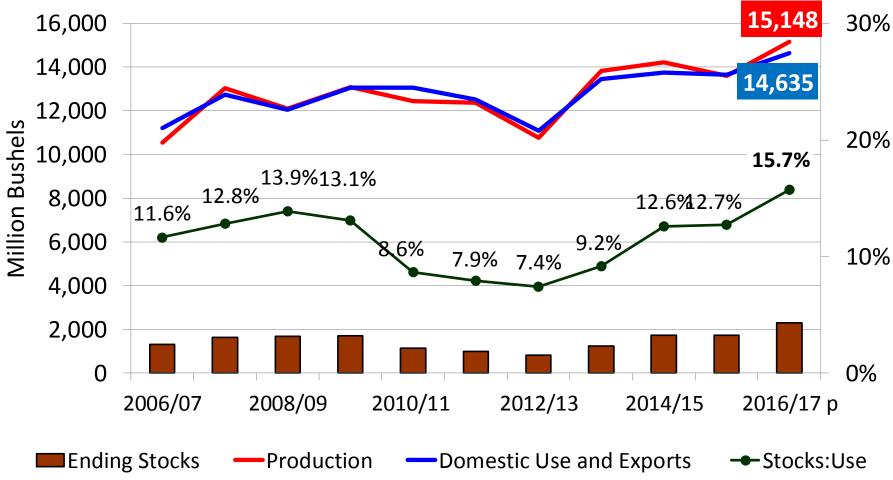


Source: USDA/FAS/PSD database, marketing year dat

# Corn



### U.S. Corn Supply and Demand





#### **Corn Outlook Summary**

US corn acres to decrease in 2017 due to lower corn prices relative to soybeans

Ethanol levels increasing due to Renewable Fuel Standard increases

Whether strong exports continue is going to be a big question

GA price likely to be in the range of \$4.07 and \$4.22

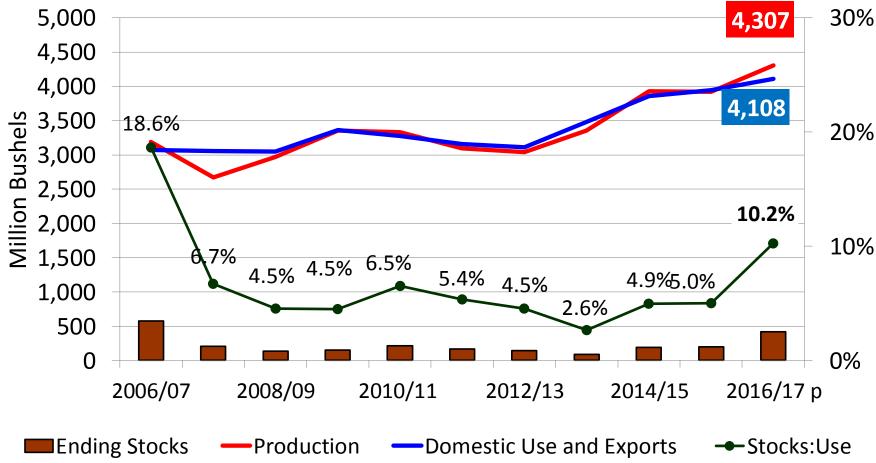


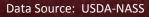


# Soybeans



### **U.S. Sovbean Supply and Demand**





2017 Georgia

**Ag Forecast** 



#### Soybean Outlook Summary

US soybean acres are projected to increase in 2017 due to the higher soybean prices relative to corn.

Whether strong exports continue is going to be a big question and will depend on the South American crop and the new presidential administration.

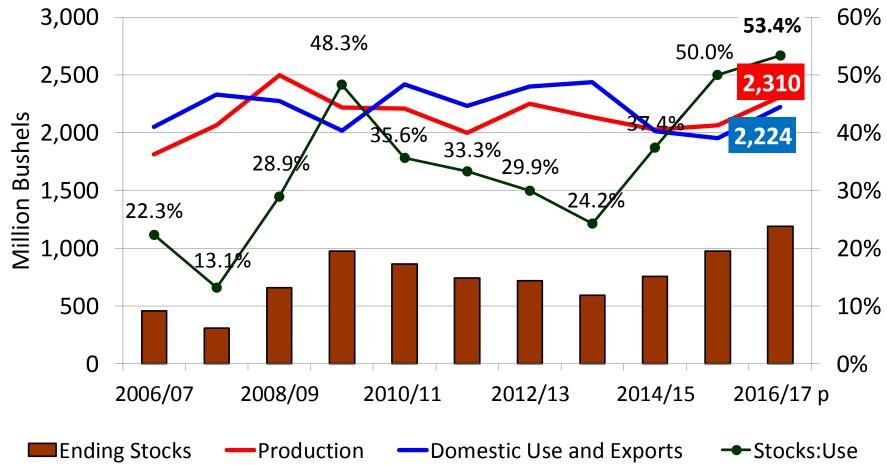
GA price likely to be in the range of \$9.40 and \$9.62



# Wheat



### **U.S. Wheat Supply and Demand**



2017 Georgia

**Ag Forecast** 



#### Wheat Outlook Summary

The price of wheat is going to continue to stay low with high ending stocks due to record yields in 2016, but we might have already seen the bottom.

A large over supply in the world will continue to keep prices down.

Projections are for wheat plantings to drop in 2017 helping the over supply situation but it is still very large.

GA price likely to be in the range of \$4.00 and \$4.27







Comparison of 2017 Estimated Net Returns, Georgia, Irrigated								
	Corn	Cotton	Grn Sorgh	Peanuts	Soybeans			
Expected Yield	200	1,200	100	4,700	60			
Expected Average Price <sup>1</sup>	\$4.15	\$0.70	\$3.75	\$430	\$9.50			
Crop Income	\$830	\$840	\$375	\$1,011	\$570			
Variable Costs <sup>2</sup>	\$640	\$505	\$310	\$640	\$250			
Net Return Per Acre Above VC	\$190	\$335	\$65	\$371	\$320			
Net Return per Acre Above VC & \$189 Land Rent	\$1	\$146	(\$124)	\$182	\$131			
1/ Expected average price. Cotton includes LDP and quality premium.								

2/ Assumes Jan 2017 costs, Crop Comparison Tool, Department of Agricultural and Applied Economics, UGA



Comparison of 2017 Estimated Net Returns, Georgia, Non-Irrigated								
	Corn	Cotton	Grn Sorgh	Peanuts	Soybeans			
Expected Yield	85	750	65	3,400	30			
Expected Average Price <sup>1</sup>	\$4.15	\$0.70	\$3.75	\$430	\$9.50			
Crop Income	\$353	\$525	\$244	\$731	\$285			
Variable Costs <sup>2</sup>	\$288	\$405	\$209	\$538	\$191			
Net Return Per Acre Above VC	\$65	\$120	\$35	\$193	\$94			
Net Return Per Acre Above VC + \$63 Land Rent	\$2	\$57	(\$28)	\$130	\$31			

1/ Expected average price. Cotton includes LDP and quality premium.

2/ Assumes Jan 2017 costs, Crop Comparison Tool, Department of Agricultural and Applied Economics, University of Georgia



# Keynote Address Brent Credille,

## Assistant Professor, UGA College of Veterinary Medicine Food Animal Health and Management Program



## ANTIMICROBIAL USE IN LIVESTOCK

## IMPLICATIONS OF NEW FDA REGULATIONS

BRENT CREDILLE, DVM, PHD, DACVIM ASSISTANT PROFESSOR FOOD ANIMAL HEALTH AND MANAGEMENT PROGRAM COLLEGE OF VETERINARY MEDICINE UNIVERSITY OF GEORGIA

### **OVERVIEW**

#### Background

- Antimicrobial Resistance
  - Human medicine
  - Animal agriculture

#### FDA Guidances 209 and 213

- What They Say
- What They Mean

Implications for Livestock Production





## **OVERVIEW**

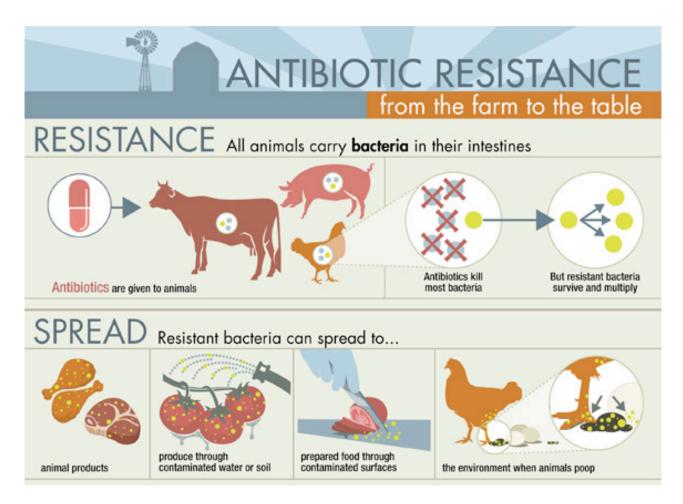
#### U.S. Beef Industry

- 915,000 cattle and calf operations (including dairy)
  - 89.8 million cattle
  - 9.3 million milk cows
- 619,000 farms specializing in beef cattle
  - 29.7 million beef cows
  - 5.8 million beef replacement heifers
  - 33.3 million head calf crop
  - Average herd size = 40 head



#### **Georgia Beef Indusry**

- 15,000 beef cattle operations in Georgia
  - 489,000 beef cows
    - < 30 head/farm</p>
  - ~500,000 calves born
  - ~ \$1 billion farm gate value
    - \$750 million for cow-calf
    - \$200 million for stockers



**Antimicrobial resistance (Humans)** 

- Significant public health threat
  - 2 million infections yearly
  - 23,000 deaths
- Tremendous economic burden on healthcare industry
  - \$20 billion in direct costs
  - \$35 billion in indirect costs
- Driven by overuse of antimicrobials
  - 50% of all anitmicrobial presciptions unnecessary (humans)

Antimicrobial Resistance (Livestock)

• Antimicrobials used for promotion of growth, improvement in feed efficiency, and treatment and control of various diseases

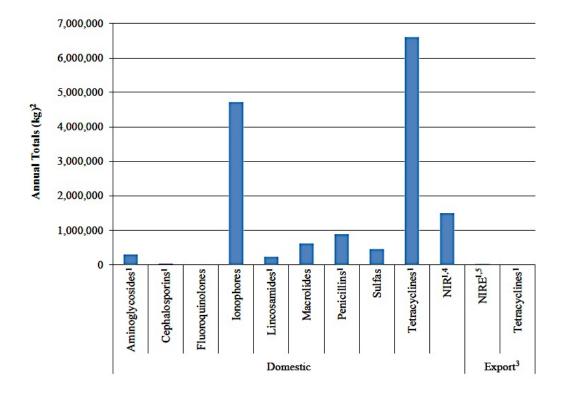
#### • Current estimates:

- Livestock responsible for 80% of all antimicrobial sales
  - 95% of all medically important antimicrobials sold on a per kg basis for administration in food or water
    - 74% in feed
    - 21% in water
  - 98% of medically important antimicrobials available over the counter



#### Antimicrobials Sold in U.S.

ANTIMICROBIAL DRUGS APPROVED FOR USE IN FOOD-PRODUCING ANIMALS<sup>\*</sup> ACTIVELY MARKETED IN 2014 SALES AND DISTRIBUTION DATA REPORTED BY DRUG CLASS



#### Why Are We Using Antimicrobials (Cow-Calf)

Percentage of cow/calf operations that used antibiotics, by cattle class and primary purpose of use, 2007-2008

Primary purpose	Percentage of operations
Any purpose	15.8
Preweaned calves	
Prevent respiratory disease	8.0
Other	1.1
Any	8.5
Replacement heifers weaned but not yet calved	
Prevent respiratory disease	9.6
Promote growth	2.6
Other	0.3
Any	9.9
Other calves weaped but not yet shipped for feeding or sold as breeding stock-	
Prevent respiratory disease	11.6
Promote growth	3.4
Other	0.3
Any	11.8

#### Why Are We Using Antimicrobials (Feedlot)

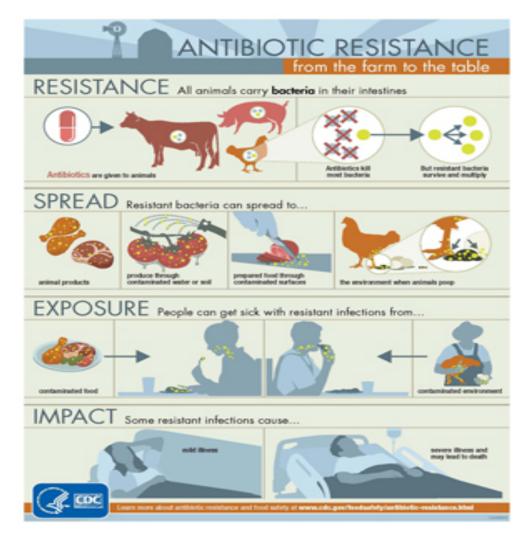
	Disease prevention		Dise treat		Growth promotion			
Antibiotic	Pct.	Std. error	Pct.	Std. error	Pct.	Std. error	Total	
Ionophores (e.g., Rumensin, Cattlyst)	16.2	(3.4)	0.6	(0.5)	83.3	(3.4)	100.0	
Coccidiostats (e.g., Corid, Deccox)	61.4	(8.1)	35.6	(8.0)	3.0	(2.8)	100.0	
Bacitracin (BMD, Fortracin, Albac)	NA							
Chlortetracycline (Aureomycin100, CTC)	74.1	(4.9)	23.7	(4.8)	2.2	(1.5)	100.0	
Chlortetracycline/ sulfamethazine (Aureo S 700, MoorMan's, Beef Cattle Boost)	82.0	(9.3)	18.0	(9.3)	0.0	(—)	100.0	
Neomycin (Biosol, Neomix325)*								
Oxytetracycline (OTC, Terramycin, TM50)*								
Sulfamethazine/ sulfadimethoxine (Albon, Sulmet)*								
Tetracycline (Tetrasure, T-Vet)	NA							
Tylosin (Tylan)	68.0	(6.8)	3.7	(2.4)	28.3	(6.8)	100.0	

#### **Antimicrobial Resistance**

- Public perception
  - Use of antimicrobials for growth promotion is not justified
  - Antimicrobial use (or overuse) in livestock is driving the increase in prevalence of resistant bacteria

#### Current concern

- Resistant bacteria are being transmitted from animals to people through the food supply
- Infections untreatable because of misuse of medically important drugs in livestock



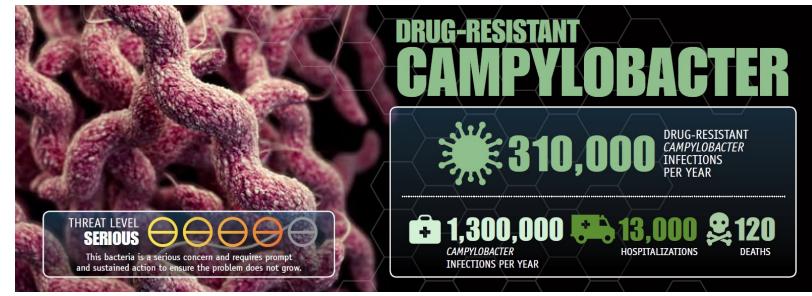
Why The Concern?

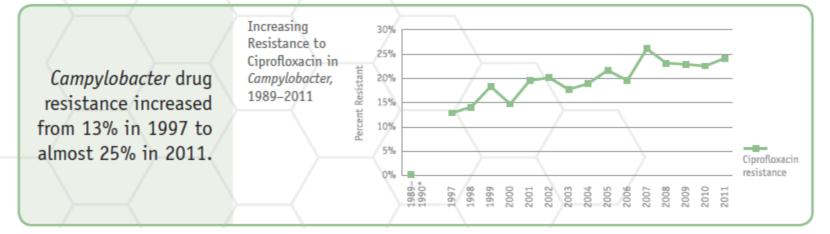
- Resistance to important antimicrobials develops due to their use in animal agriculture
  - Sub-therapeutic uses (growth promotion)
- Rise in prevalence of untreatable infections in people
  - Increased risk of death in people with these diseases
  - Greater costs transferred to healthcare system



#### Antimicrobial resistance

- CDC (Antibiotic resistance threats in the Unites States, 2013)
  - Ranked resistant bacteria by threat level
    - Urgent
    - Serious
    - Concerning
  - 4 organisms ranked as serious threat level seem to originate from food supply, 2 have origin in animals
    - Campylobacter
    - Salmonella



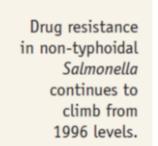


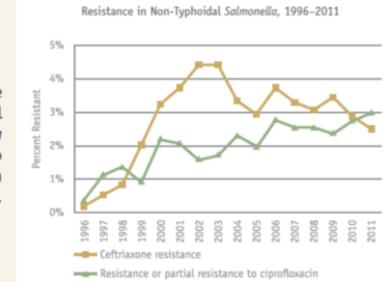
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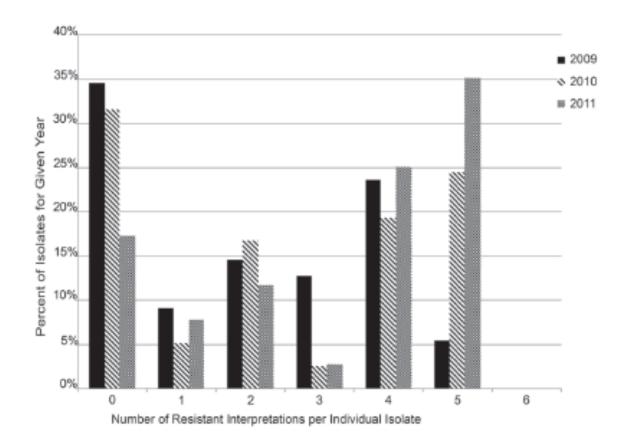






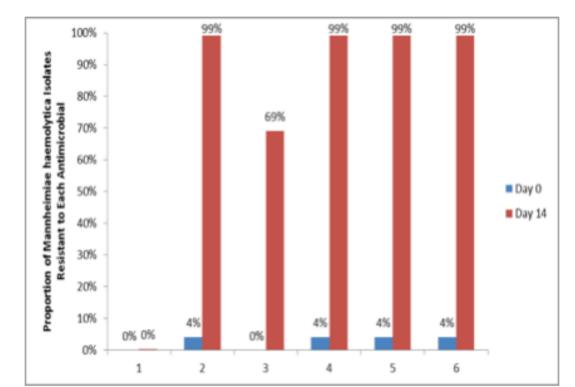
**Antimicrobial Resistance (Livestock)** 

• Resistance in Mannheimia haemolytica an emerging threat



**Antimicrobial Resistance (Livestock)** 

 Proportion of *M. haemolytica* isolates resistant to selected antimicrobials (AM) before (Day 0) and 10 to 14 days after metaphylaxis with tulathromycin (Day 14)



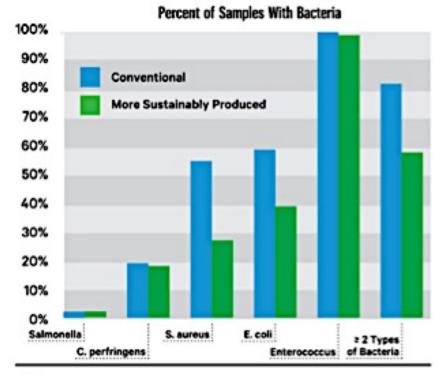
#### Antibiotic susceptibility Pattern

	Mannheimia haemolytica		Mannheimia haemolytica			Mannheimia haemolytica			
	Interpretation	MIC	Test Range	Interpretation	MIC	Test Range	Interpretation	MIC	Test Range
Ampicillin	S			S			S		
Ceftiofur(3rd gen.)	S			S			S		
Enrofloxacin	S			S			S		
Florfenicol	S			S			s		
Gamithromycin	S			S			S		
Penicillin	s			S			s		
Tetracycline	S			S			S		
Tulathromycin	S			S			S		

#### Antibiotic susceptibility Pattern

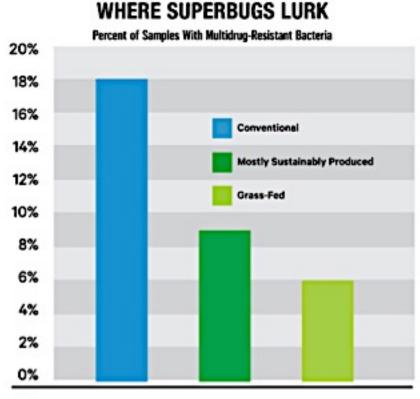
	Mannheimia haemolytica		Mannheimia haemolytica			Mannheimia haemolytica			
	Interpretation	MIC	Test Range	Interpretation	MIC	Test Range	Interpretation	MIC	Test Range
Ampicillin	s			s			S		
Ceftiofur(3rd gen.)	8			8			s		
Enrofloxacin	R			R			R		
Florfenicol	R			R			R		
Gamithromycin	R			R			R		
Penicillin	S			S			s		
Tetracycline	R			R			R		
Tulathromycin	R			R			R		

#### HOW MUCH BACTERIA IS IN BEEF?





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**Consumer Demands** 

- Organic food sales increased significantly since 2004
  - \$11 billion in 2004 vs \$32 billion in 2013
- 11 of 13 largest grocery retailers offer organic or "antibiotic free" meet
- Multiple food chains (McDonald's) sourcing antibiotic free meat



What Is A Medically Important Antimicrobial?

- An antimicrobial drug (or drug class) used to treat pathogens that cause food borne disease
- An antimicrobial drug that is a sole therapy or one of few alternatives to treat serious human disease
- An antimicrobial drug (or drug class) used to treat enteric pathogens in non-food borne illness
- No cross resistance within or between drug classes and difficulty transmitting resistance elements between bacterial species

What Is A Medically Important Antimicrobial?

- Ranking
  - Critically important Meet criteria 1 and 2
  - Highly important Meet either 1 or 2
  - Important Meet either 3, 4, or 5

What Is A Medically Important Antimicrobial?

- Penicillins Penicillin, Naxcel, Excenel, Excede
- Tetracyclines Aureomycin, LA 200
- Macrolides Draxxin, Micotil, Zactran, Zuprevo
- Fluoroquinolones Baytril, Advocin
- Sulfas Albon, AS700, Sustain Calf Boluses
- Aminoglyocosides Neomycin, Spectinomycin

Three recent changes in antimicrobial use regulations

- April 2012
  - Ban on extra-label use of cephalosporins (Naxcel, Excenel, Excede) in major food producing species (Cattle, Swine, Poultry)
  - Guidance for Industry 209
    - Framework for judicious use of antimicrobials in livestock
- December 2013
  - Guidance for Industry 213
    - Framework for implementation of measures proposed on GFI 209

**Guidance for Industry 209** 

- FDAs current thinking on topic of judicious antimicrobial use
  - Two ways to ensure judicious drug use
    - Limiting the use of medically important antimicrobials to uses that are considered necessary for assuring animal health
      - Growth promotion and feed efficiency not considered necessary for assuring animal health
    - Limiting the use of antimicrobials to uses that require veterinary oversight or consultation.
      - ALL antimicrobial use should require a valid veterinary client patient relationship (VCPR)

**Guidance for Industry 213** 

- Gradual and voluntary phasing out of antimicrobial use for promotion of feed efficiency and weight gain
  - All in feed or water use of medically important antimicrobials must involve input of a veterinarian
  - All in feed or water use of medically important antimicrobials VFD (feed) or prescription (water) only
    - No more over-the-counter use
- Established 3 year period for pharmaceutical companies to comply
  - Quickly adopted by most companies
  - December 2016

Implications

- No further use of ANY medically important antimicrobials to promote feed efficiency and weight gain
  - Regardless of a valid prescription
  - Use in this manner ILLEGAL
- ALL in feed and water antimicrobial use requires input of a veterinarian
  - Valid veterinary-client-patient relationship
  - Veterinarian must be licensed in state in which animals are housed

### GFI 209 AND 213

#### Antimicrobials Affected by VFD Regulations

Trade Names			
Aureomycin, CLTC, Pennchlor			
Aureo S 700			
Neo-Terramycin, Neo-Oxy			
Terramycin, Pennox			
Tylan			
Pulmotil			
V-Max			

### GFI 209 AND 213

#### Pharmaceuticals Not Affected by VFD Regulations

Generic Name	Trade Names		
Amprolium	Corid		
Bacitracin	Albac, BMD		
Bambermycin	GainPro		
Decoquinate	Deccox		
Laidlomycin	Cattlyst		
Monensin	Rumensin		
Lasalocid	Bovatec		

#### Implications

- Use of ionophores (Rumensin, Bovatec) not affected
  - Unless combined with a medically important antimicrobial
- Use of antimicrobials for treatment and prevention of disease still allowed
  - Stocker operator purchasing high risk cattle and using Draxxin for arrival metaphylaxis
  - For NOW!!

**Economic Impact** 

- Producers currently using antimicrobials for growth promotion
  - 1 to 3 % increase in cost of production
  - 1% increase in wholesale price
  - 1 to 2 % decrease in total production
- Producers not using antimicrobials for production purposes
  - Increased production and higher revenues as a response to higher prices

#### **Recent Developments**

- California Bill SB 27 (in effect in 2018)
  - Most restrictive antimicrobial use guidelines in nation
  - Removal of ALL medically important antimicrobials from OTC status
    - Penicillin
    - LA200
    - Tylan
    - Albon

#### Implications

- What the future holds is hard to predict
  - Will more restrictive regulations be placed on animal agriculture?
    - Lose ability to use certain drugs for disease prevention?
- Management strategies to maximize animal health must become a priority
  - Biosecurity
  - Vaccination
  - Deworming
  - Preconditioning

What's the Take Away for Cattle Producers

- Develop a relationship with a veterinarian that knows their operation
- Focus on antimicrobial stewardship
  - Decide if a non-antibiotic alternative exists for treating, controlling, and preventing disease
  - Select antibiotics that have been proven safe and effective for a certain purpose

What's the Take Away for Cattle Producers

- Focus on Antimicrobial Stewardship
  - Focus on disease prevention
  - Diagnose sick animals quickly and accurately
  - Select antimicrobials appropriate for the condition being treated
  - Keep records

Implementation of Prudent Use Guidelines

- Have a veterinary client patient relationship (VCPR)
- Establish written treatment protocols
- Understand extra-label drug use (ELDU)
- Train personnel working on the operation

Avent, OSU	Preconditioned	Non-Precond
% Sick	9.2	36.4
% Death Loss	1.5	4.3
ADG (lbs/day)	2.9	2.6
Feed conversion	6.3	6.9
% Choice	50.4	35.8
% Outs	2.5	6.9

	Auction Market	Preconditioned
ADG, lb	1.9	2.67
Morbidity,%	67.2	7.7
3 Treats,%	8.0	3.2
Chronics,%	1.1	0.4
Med Costs,\$	18.49	2.31

Item	Non-preconditioned	Preconditioned
Performance		
Feedlot in wt, lb	550	640
Feedlot wt gain, lb	616	540
Days on feed	220	180
Daily gain, lb	2.80	3.00
Feed:Gain, DM basis	6.60	6.02
Medicine, S/head	34.00	4.33
Death loss, %	4.44	1.30
Feedlot COG, \$/cwt	62.80	54.75
Economics		
Preconditioning costs, \$/head	-	40
Feedlot COG, \$/head	386.85	295.65
Fed heifer value, 8/head	795.33	804.88
👞 Value minus total costs, S/head	408.48	469.23
Difference in net value, 8/head	-	60.72

- More efficient gains
- Higher value carcasses
- Reduced medication costs
- Less death loss
- Increased profit potential





Some evidence suggests use of antimicrobials in cattle drives antimicrobial resistance

• Scapegoats?

Our patterns of drug use MUST change

• Not because we want to, because we HAVE to

Management must become a priority

- Maintain or open doors for the future
  - Marketing opportunities

#### QUESTIONS?





### Questions & Answers Kent Wolfe



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### **Invocation Stan Kirk** *Georgia Farm Bureau, Cobb County President*





# **Industry Remarks Roby Murray** 1<sup>st</sup> District Field Representative,

Georgia Farm Bureau





### **Industry Remarks Robert Cobb** State Veterinarian, Georgia Department of Agriculture





### Closing Remarks Kent Wolfe



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# Thank you for attending!



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