# **Issues Facing the Illinois Fertilizer Industry**



Illinois Fertilizer & Chemical Association

**Supply • Service • Stewardship** 

IFCA's Mission Statement: To assist and represent the crop production supply and service industry while promoting the sound stewardship and utilization of agricultural inputs

#### 1,100+ Members Including:

**Ag Retailers** 

Fertilizer & Pesticide Manufacturers and Distributors

**Equipment Suppliers** 



**Input Consultants** 

## **Major Issues Facing Illinois Agribusiness**

- Controlling N & P Losses to Avoid Litigation
- Hours of Service Regulations

The Sad State of Our State



# Water Quality Challenges

- Hypoxia
- Nutrient Standards Numeric Criteria
- Fall Applied Nitrogen Gets Most Attention

Lawn care Industry seeing more regulations



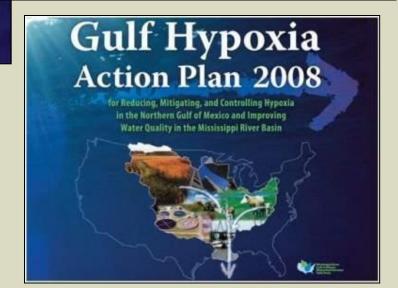






EPA Hypoxia SAB report suggested
45% less total N
AND

45% less total P
discharge to the Gulf to reduce
hypoxia





Nutrients and Hypoxia in the Gulf of Mexico — An Update on Progress, 2008

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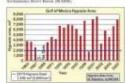


Figure 1. Annual service of Egyption in the numbers Gulf of Edition, to distributed by control counts associated at 18th July

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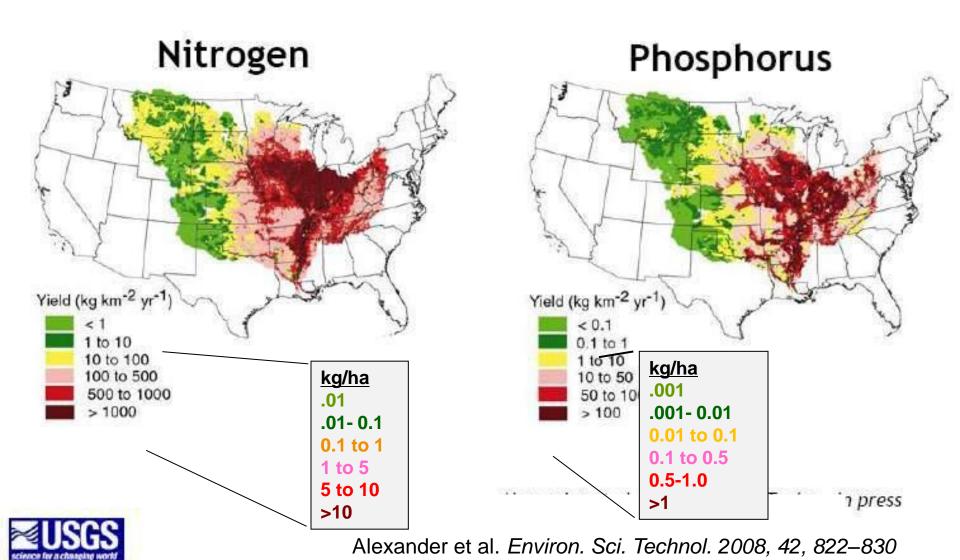
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#### Is Illinois the Next Florida?

- Illinois EPA has challenged Illinois agriculture to reduce nitrogen & phosphorus losses
- Illinois Chapter of Sierra Club threatening to sue to set standards if agriculture does not develop a strategy
- IEPA Bureau of Water Chief is asking for a plan from the ag industry in the next 6-8 weeks; after that opportunity may be lost to control this issue.

# USGS Estimates Loss of N and P and Delivery to the Gulf of Mexico



# Illinois' Crop Systems Make Controlling Nutrient Losses Particularly Challenging

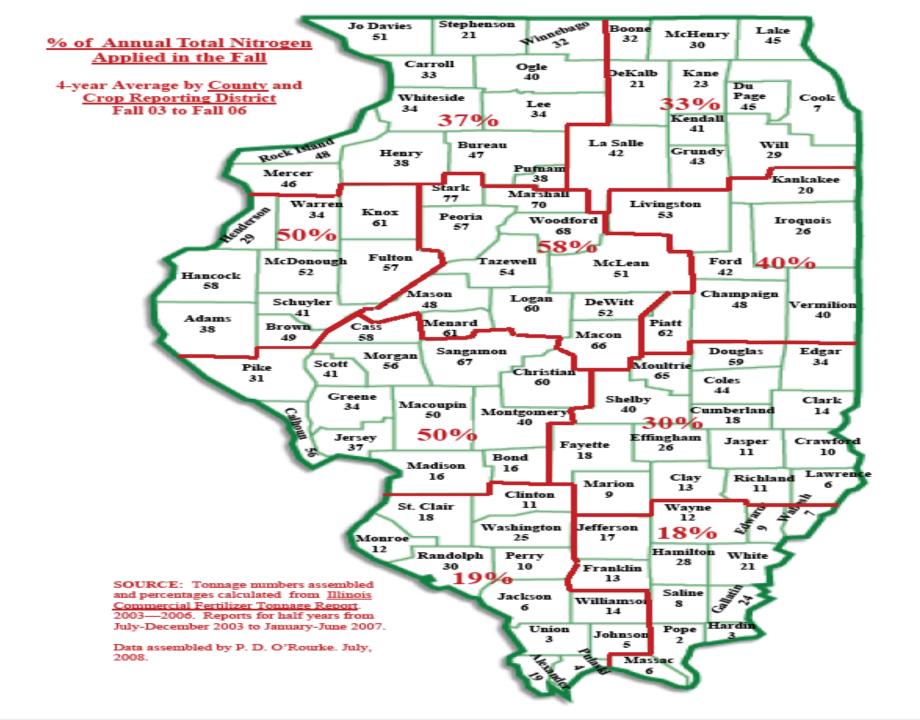
Biggest Corn Counties are the Most Heavily Tiled



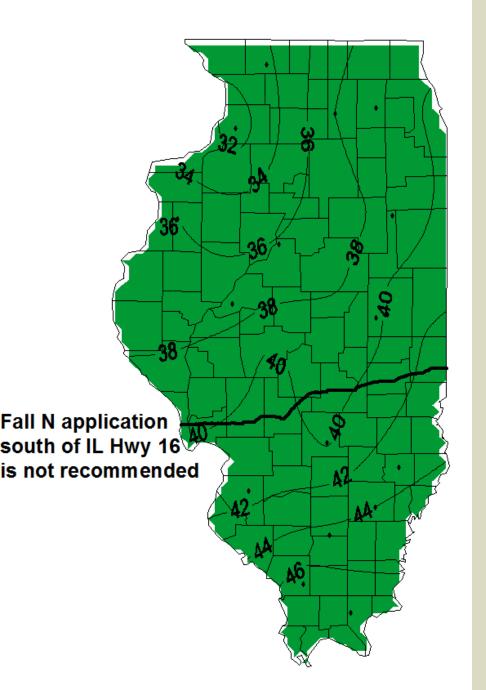


• ILLINOIS IS AN AMMONIA STATE (60% NH3, 35% UAN, 5% Dry)

• In a "normal" year nearly 50% of all nitrogen goes down in the fall (350,000 tons approximately) in the form of anhydrous ammonia

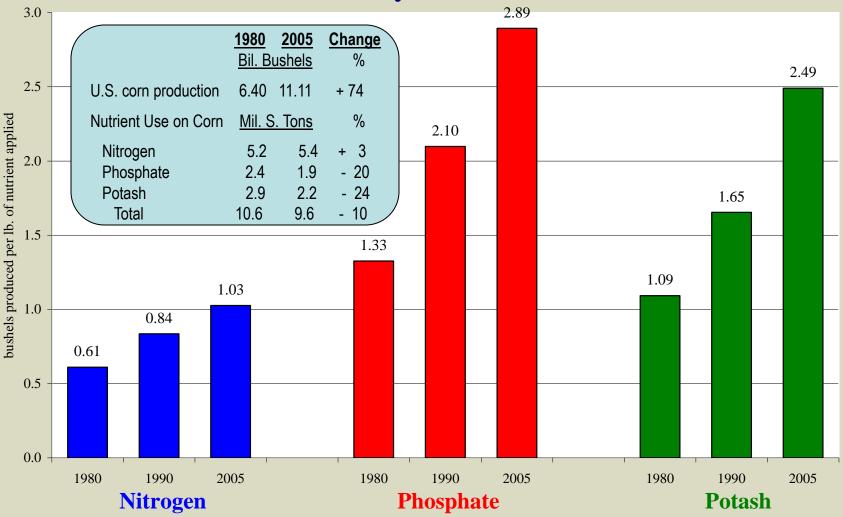


#### November 30, 2010



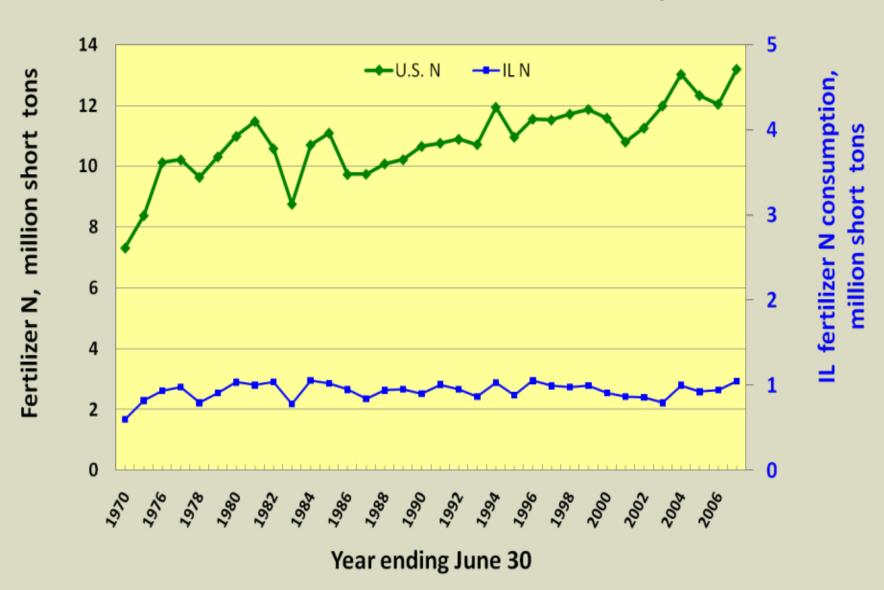
- IFCA Posts State 4 inch bare soil temps on our website
- Site is Red when soil temps are above 50 degrees
- Stabilize at 60 or wait until 50 is history; new recommendations call for waiting till 50 degree soil temps to start

#### **Nutrient Use Efficiency in U.S. Corn Production**



Source: Computed by The Fertilizer Institute from data reported by USDA.

#### **U.S. and Illinois Fertilizer N Consumption**



# Impact of Nitrogen Management on Corn Grain Yield and Nitrogen Loss on a Tile Drained Field

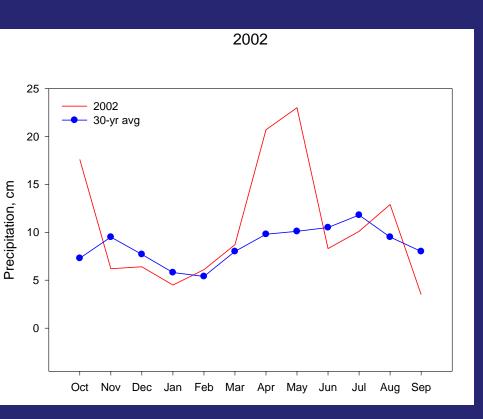


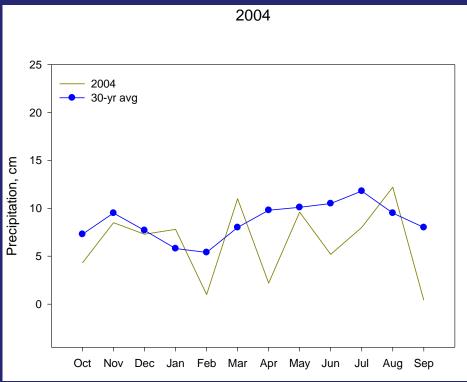
## Objectives

• Determine the effect of time and rate of nitrogen application and use of nitrification inhibitors on nitrate concentration and content losses from subsurface tile lines and on corn grain yield

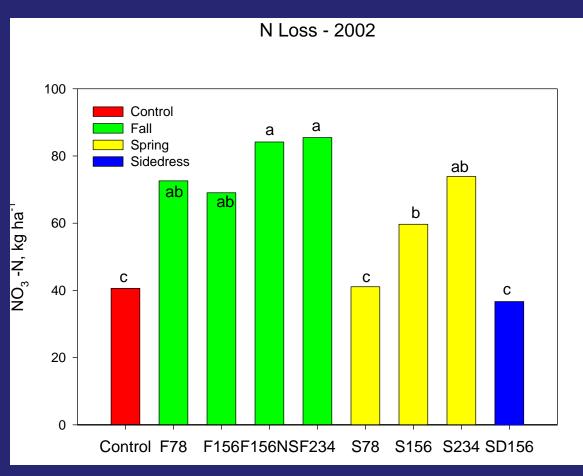
#### **Climatic Conditions**

# Precipitation





# Nitrogen Loss – 2002 Corn

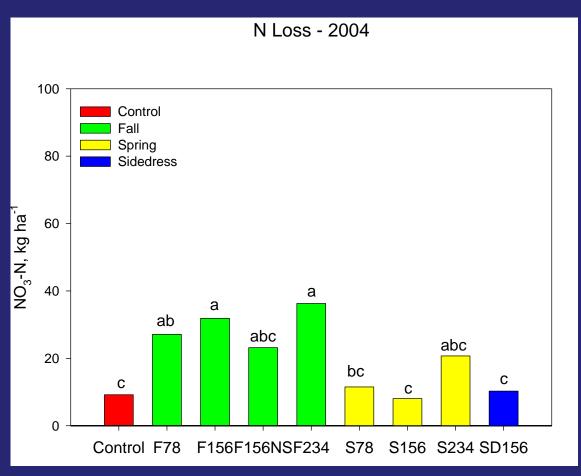


Contrast Pr > F

Fall vs. Spring 0.0030

 $LSD_{.10} = 18.30$ 

# Nitrogen Loss – 2004 Corn



Contrast Pr > F

Fall vs. Spring 0.0007

 $LSD_{.10} = 15.84$ 

#### Results

- On the average, losses from the fall applications were significantly higher than those in the spring in both years
- The Sidedress treatment significantly decreased losses as compared to the Fall 156 kg ha<sup>-1</sup> treatment in both years, and the Spring 156 kg ha<sup>-1</sup> treatment in only 2002

#### Results

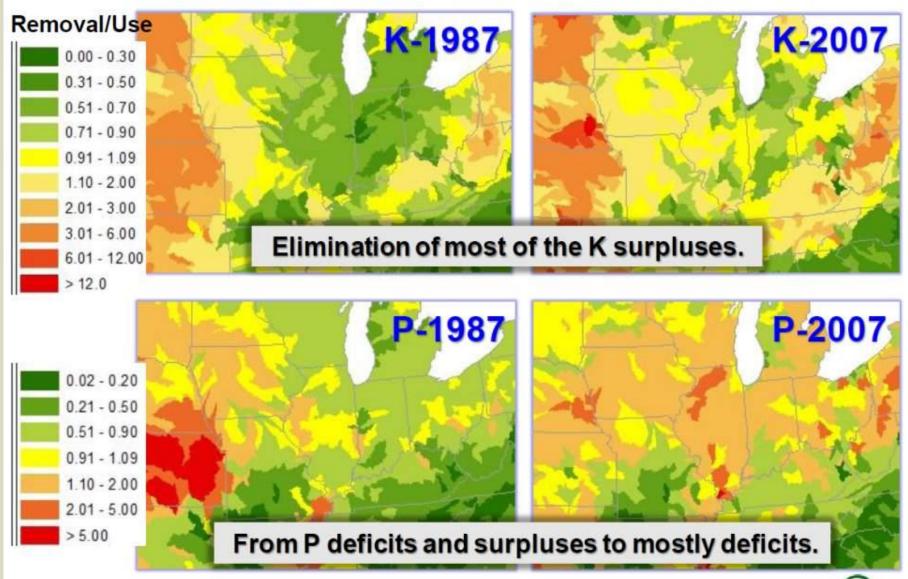
- A significant yield increase due to applied nitrogen over the control was seen in all three years regardless of season of application or use of nitrification inhibitors
- On the average, spring applications yielded significantly higher than fall applications in 2 of 3 years
- The use of N-Serve significantly increased yields over the Fall 156 kg ha<sup>-1</sup> treatment in 2004
- A significant yield increase from the Spring 234 kg ha<sup>-1</sup> treatment over the Spring 156 kg ha<sup>-1</sup> was seen in both 2002 and 2004

## Challenges on Nitrogen

• IFCA Study: Moving all N to Spring in Illinois would require a \$1 billion investment in infrastructure at the retail level.

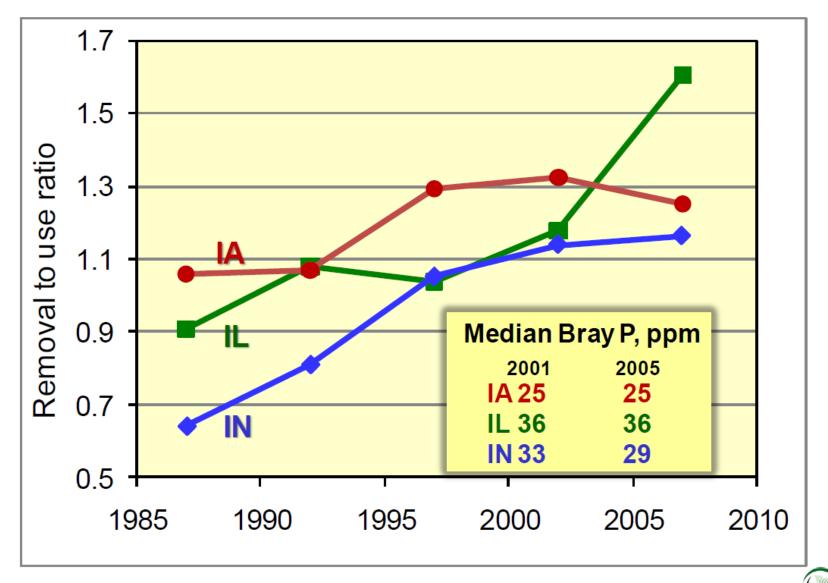
 This does not take into consideration possible higher N prices due to supply and demand situations in the spring

# Changes in Corn Belt P and K Budgets





#### P removal to use ratios for the "I" states



## Overall Nutrient Strategy

- Invest in research and education (IFCA has a plan)
- Encourage (eventually require?) farmers to develop a nutrient management plan based on 4R program
- Prioritize vulnerable watersheds where fall N in heavily tiled fields is an issue; encourage move to split and/or spring application to save fall N use in less vulnerable areas of the state
- Document our success; we've failed to do this in the past thus we get no credit for accomplishments

#### **MORE FEDERAL ISSUES**



Illinois Fertilizer & Chemical Association

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# **Ag Hours of Service Exception**

- FMCSA rescinded the exemption in late 2009 over interpretation
- This is CRITICAL to meets the seasonal demands.
- Illinois moved 33,460 cargo tanks loads from terminal to retail site in 2008 under this exception
- Focused so much on the problems associated with ammonia we didn't dream that FMCSA would not give exemption for liquid or dry fertilizer!



# **Ag Hours of Service Exception**

- IFCA submitted extensive comments to FMCSA
- IFCA Board and Members Personally Visited FMCSA Director Anne Ferro
- FMCSA granted 90 day waiver for ammonia in spring 2010; gave 2 year waiver for ammonia in fall 2010 (just in time)
- With Congressman Oberstar defeated, hope to fix this problem for good, we have lots of support.



#### The Sad State of Our State

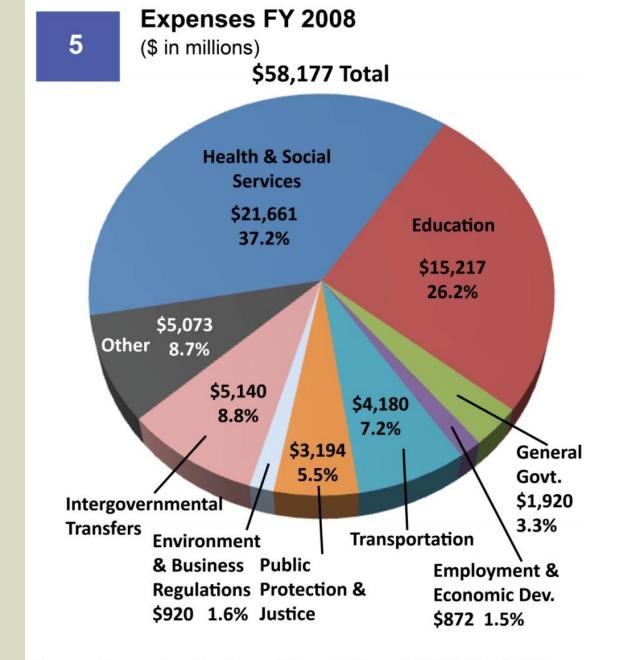


# The Starting Point:

# Illinois State Government is in the worst fiscal crisis since the Great Depression

• The backlog of unpaid bills is over \$8 billion and continues to rise.

 Illinois businesses have not received 2008 or 2009 tax refunds owed to them.



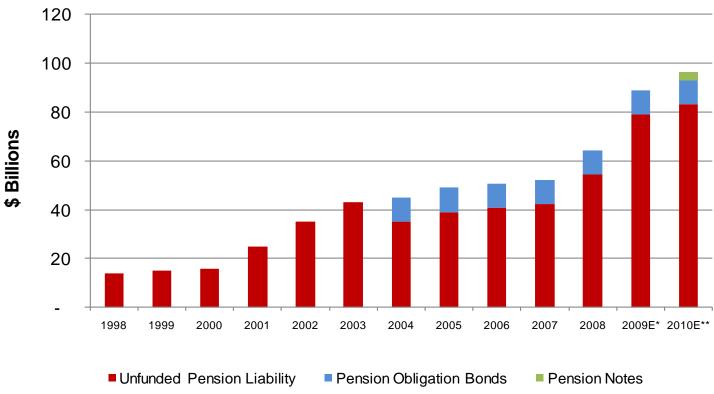
Source: Comprehensive Annual Financial Report, 2008, Illinois Office of the Comptroller, Springfield.

Between 1990 and January 1, 2008, Illinois lost 249,000 manufacturing jobs (a decline of 27%)

• This loss was worse than both the Midwest (-23.2%) and the Nation (-23.9%).



#### State Unfunded Pension Liability and Other Pension Debt



\*Estimate is based on COGFA April 2009 Pension Briefing projection of \$78.9 B unfunded liability at the end of FY2009.

\*\*Estimate is based on COGFA April 2009 Pension Briefing projection of \$83 B unfunded liability at the end of FY2010 and \$3.5 B in pension notes issued in FY2010. The Governor's proposed \$16 B in new pension bonds would not change the total amount of pension debt, but would convert approximately \$16 B (minus transaction costs) of unfunded liability into pension obligation bonds.

Source: "2008 Bonded Indebtedness Report of the State of Illinois," January 2009, Commission on Government Forecasting and Accountability; Commission on Government Forecasting and Accountability Monthly Briefing, April 2009; "Report on the Financial Condition of the State Retirement Systems," February 2009, Commission on Government Forecasting and Accountability Monthly Briefing, February 2009; "Report on the Financial Condition of the State Retirement Systems," February 2008, Commission on Government Forecasting and Accountability; "Report on the Financial Condition of the State Retirement Systems," July 2007, Commission on Government Forecasting and Accountability; Historical unfunded liability data from Senate GOP staff.

#### **The Context:**

#### **BIG 'N RICH**



- In 2008, Illinois ranked fifth nationally with a Gross State Product in excess of \$633 billion (BEA).
- That would be the 27<sup>th</sup> largest economy of any nation in the world-greater than Egypt, Saudi Arabia, Colombia, Belgium, Sweden, Greece, Ireland, Portugal, Norway and Nigeria, to name a few.

#### **Illinois State Sales Tax**

#### \$8.5 billion in revenues

Average Annual Growth Rate	1991 - 2000	6.3%
	2001	-1.1%
	2002	1.6%
	2003	0.1%
	2004	4.5%
	2005	4.2%
	2006	7.5%
	2007	0.6%
	2008	1.1%
	2009	-6.1%
	<b>YTD 2010</b>	-13.6%

State of Colorado removed sales tax exemption for ag inputs this week

#### IL Dept of Ag Fee Increases

- From \$20 to \$30 for private applicators
- New fees for some other pesticide licenses
- \$100 agrichemical facility containment permit fee
- Slight increase in scale inspection fees
- Increase in pesticide product registration fees

IDA faces another 15% budget cut; industry working to keep IDA viable.

#### What is Yet to Come in Illinois?

- Personal and corporate income tax increase; but will only raise \$5 billion against a \$15 billion deficit.
- Service tax could be proposed
- Elimination of exemption (ag inputs) could be proposed
- Big sucking sound as neighboring states have new Governors and legislatures with more business friendly attitude.

# Pray for Illinois!

