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# Prospects for Land Values and Leases

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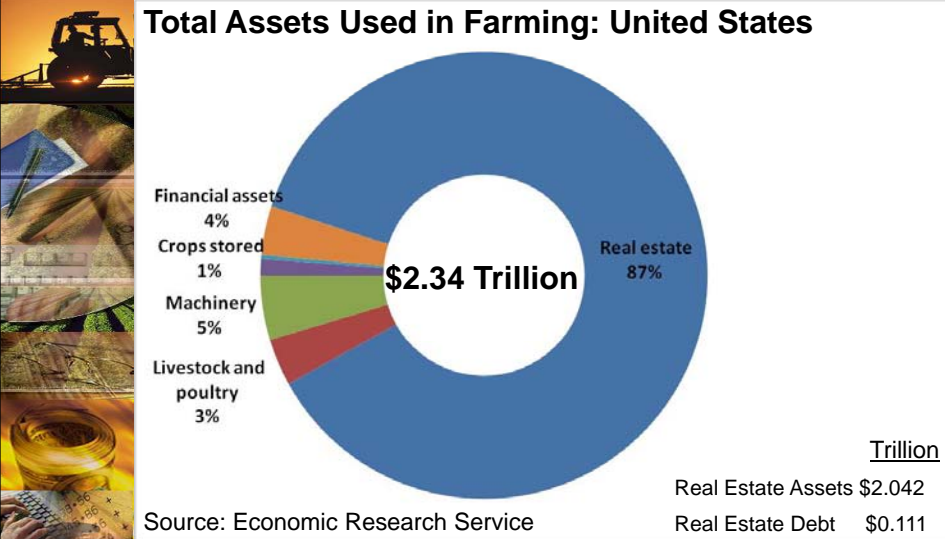


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## Total Assets Used in Farming: United States



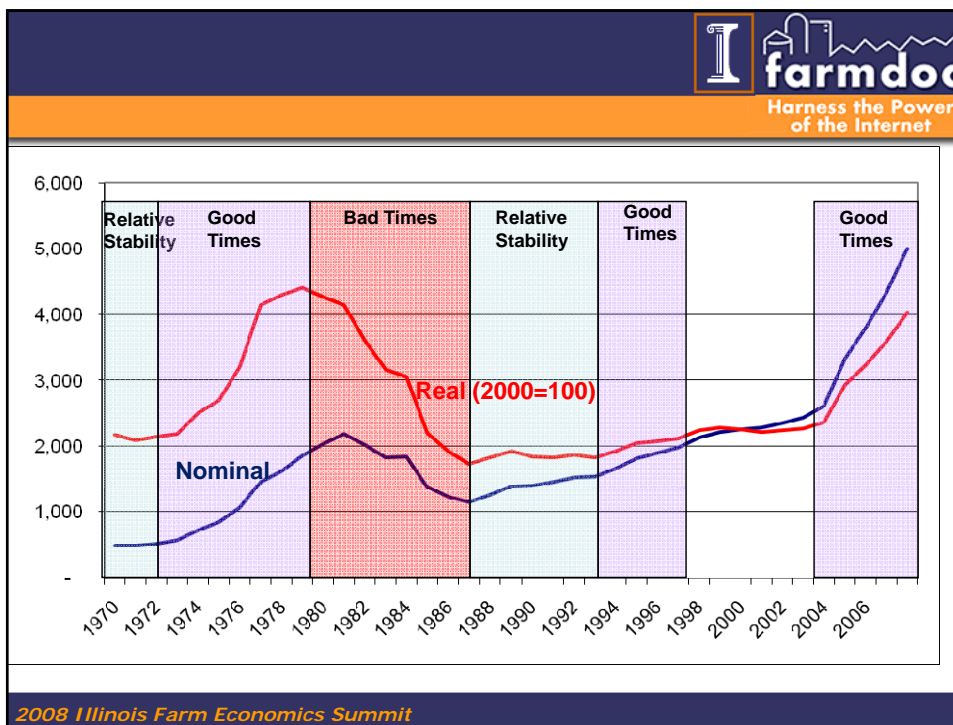
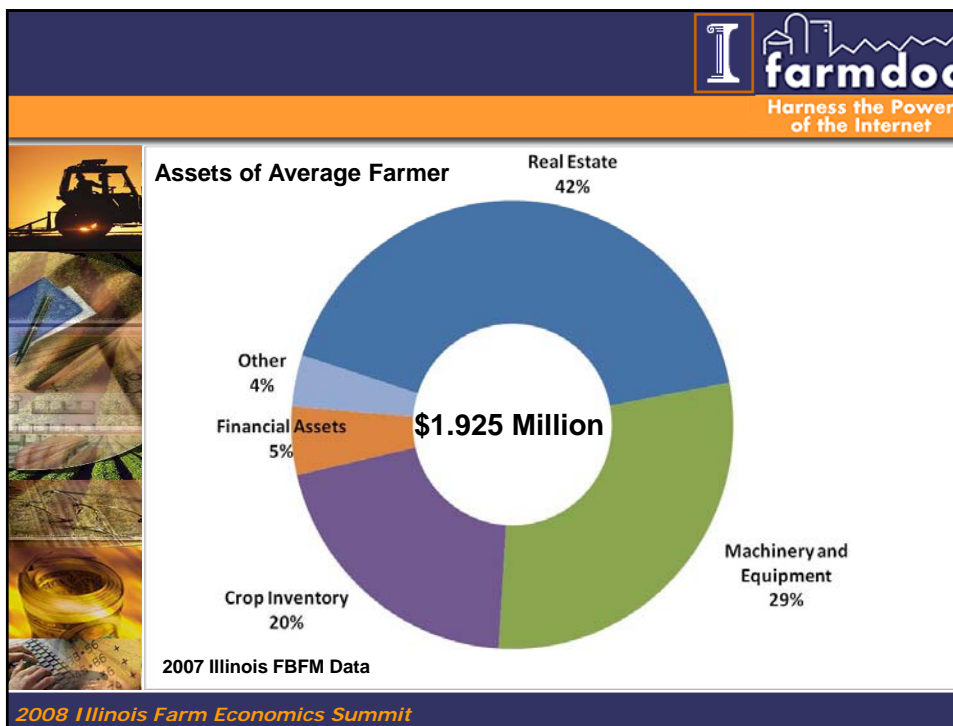
Asset Category	Percentage
Real estate	87%
Machinery	5%
Financial assets	4%
Livestock and poultry	3%
Crops stored	1%

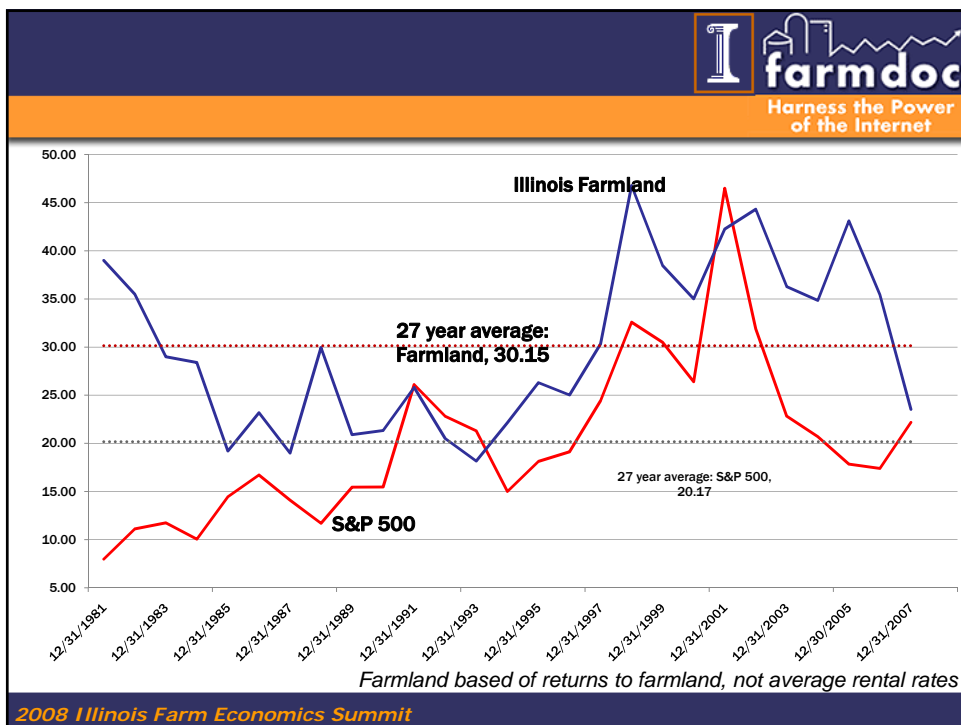
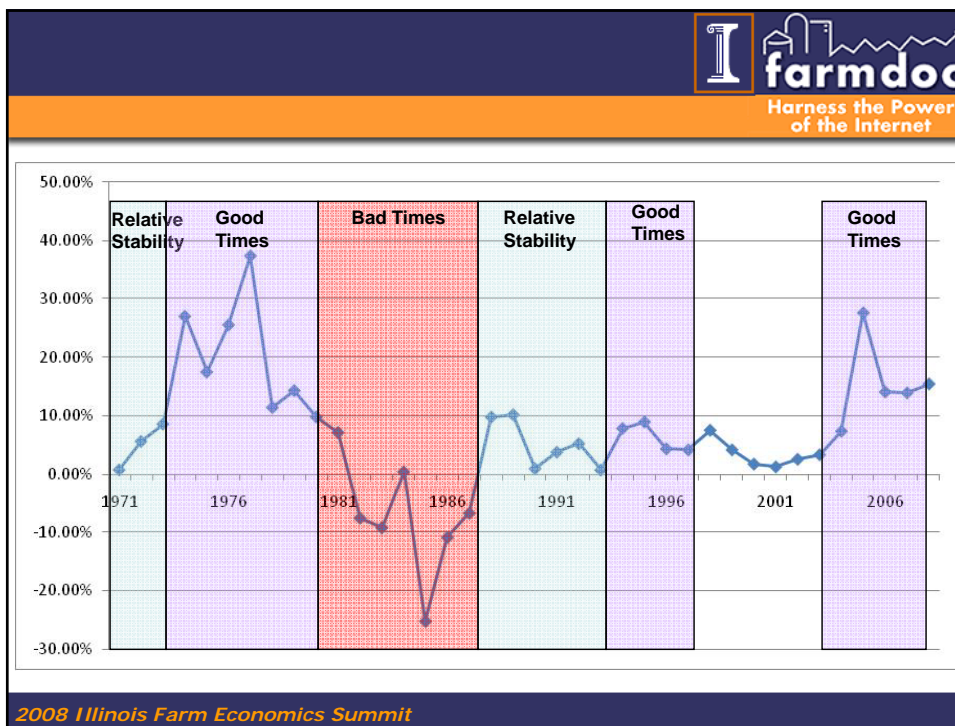
**\$2.34 Trillion**

Source: Economic Research Service

Trillion  
Real Estate Assets \$2.042  
Real Estate Debt \$0.111

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- Net returns to land
  - Level
  - Volatility
- Housing crisis
- Scope & economic situation of buyers
- Demand for recreational land
- Interest rates
- Capital gains tax rates



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	\$4.50 corn price \$10.00 soybean price	
	Low	High
Northern	\$178	\$253
Central-High	\$232	\$307
Central-Low	\$155	\$232
Southern	\$117	\$188

Assume a \$50/acre return for operator  
 Interpreted as maximum available for cash rent  
 Low: Pre-meltdown costs, High: Post-meltdown costs

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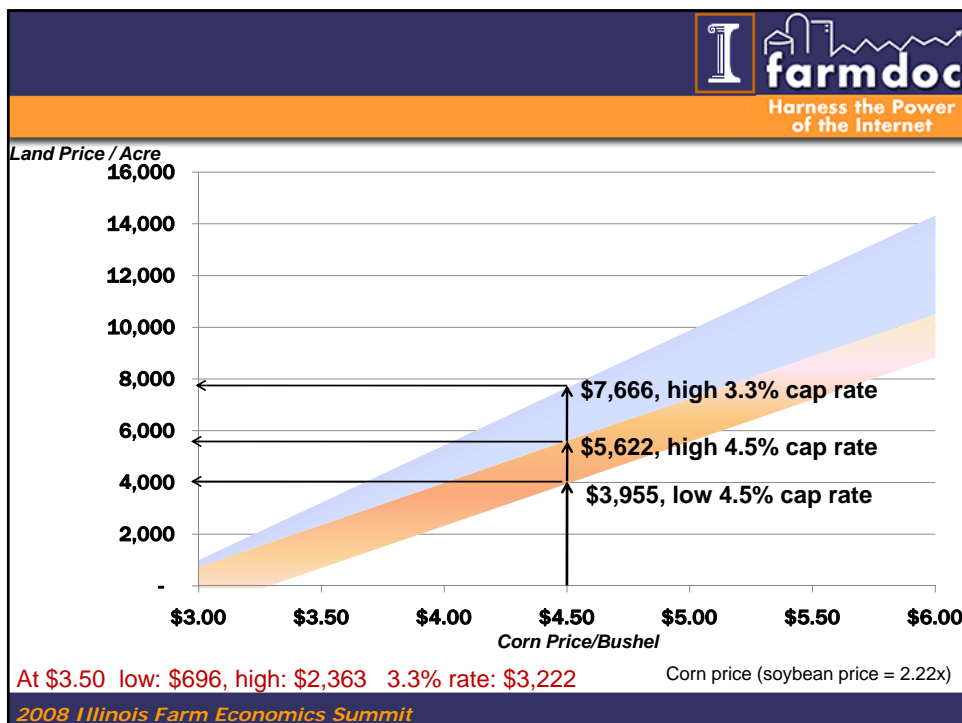


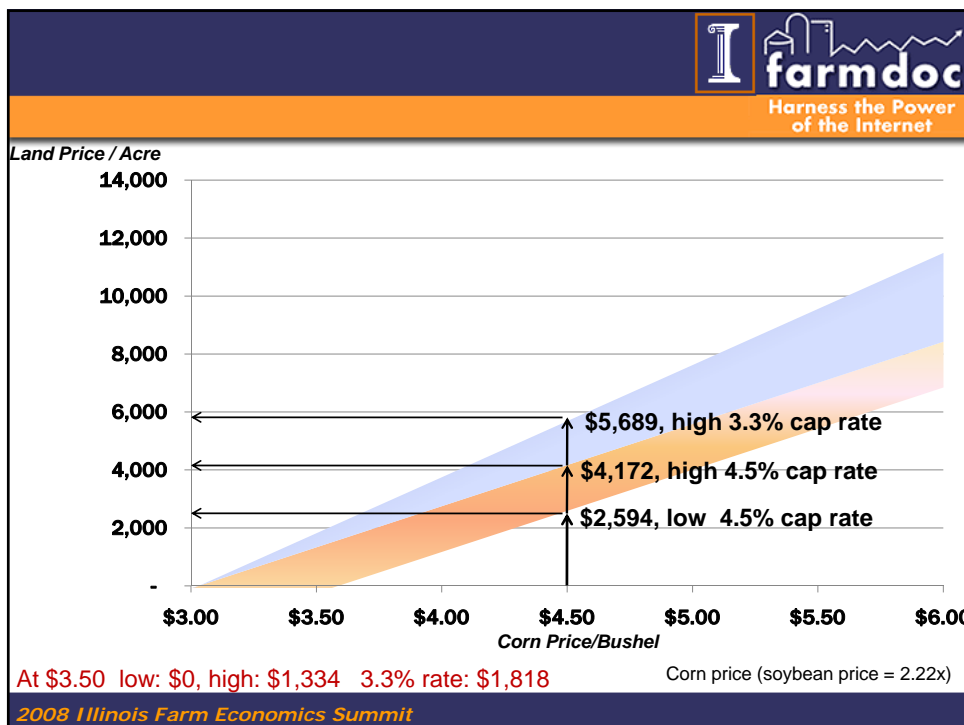
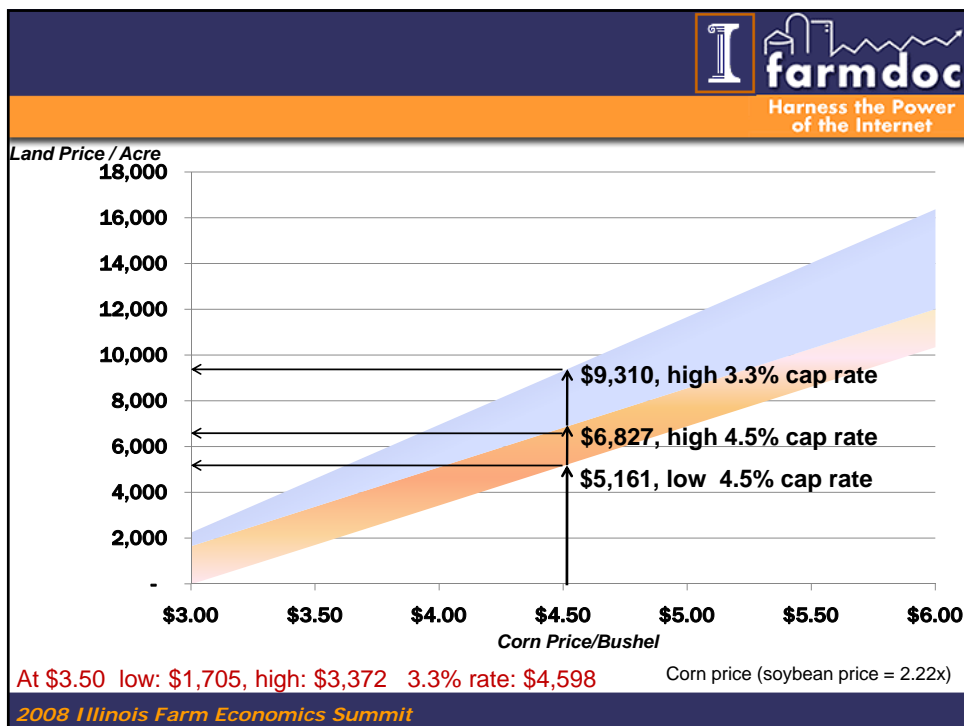
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	\$3.50 corn price \$10.00 soybean price	
	Low	High
Northern	\$63	\$138
Central-High	\$110	\$185
Central-Low	\$45	\$122
Southern	\$18	\$89


Assume a \$50/acre return for operator  
 Interpreted as maximum available for cash rent  
 Low: Pre-meltdown costs, High: Post-meltdown costs

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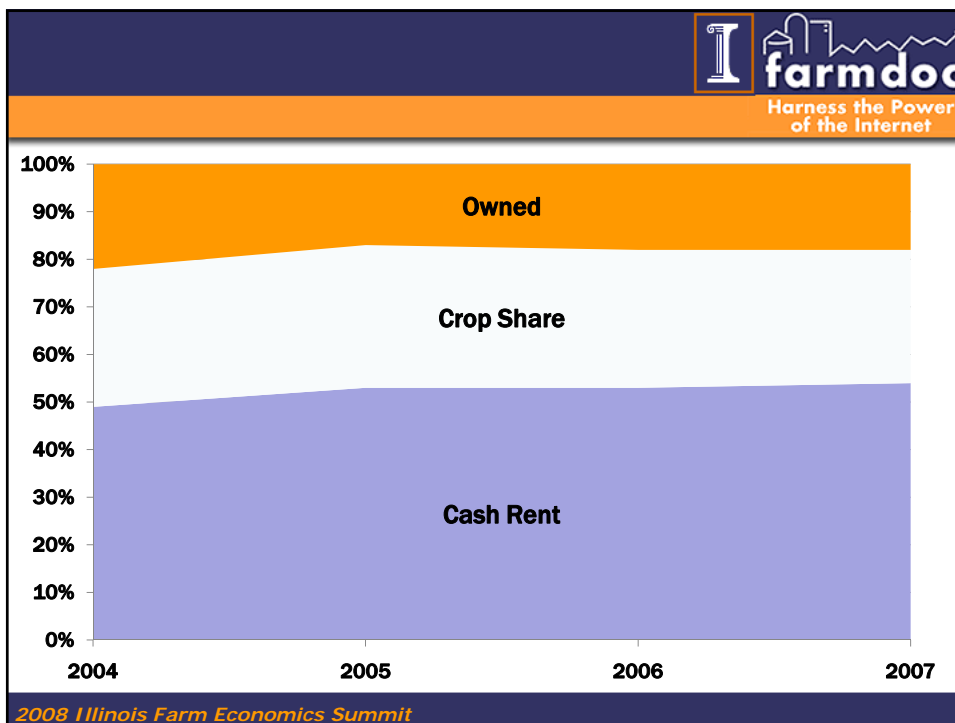


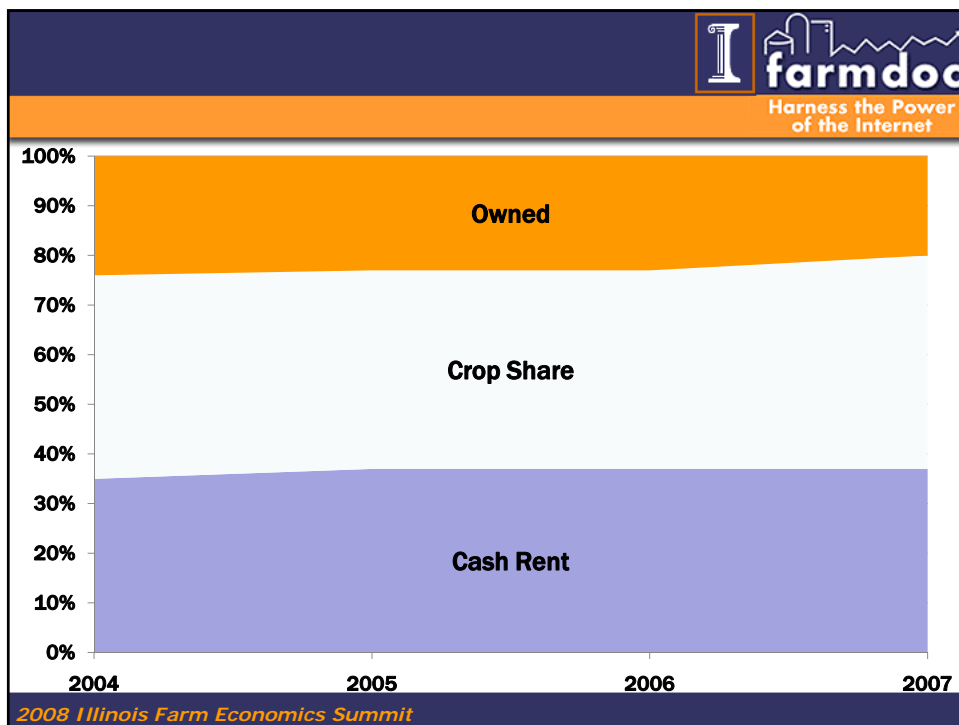
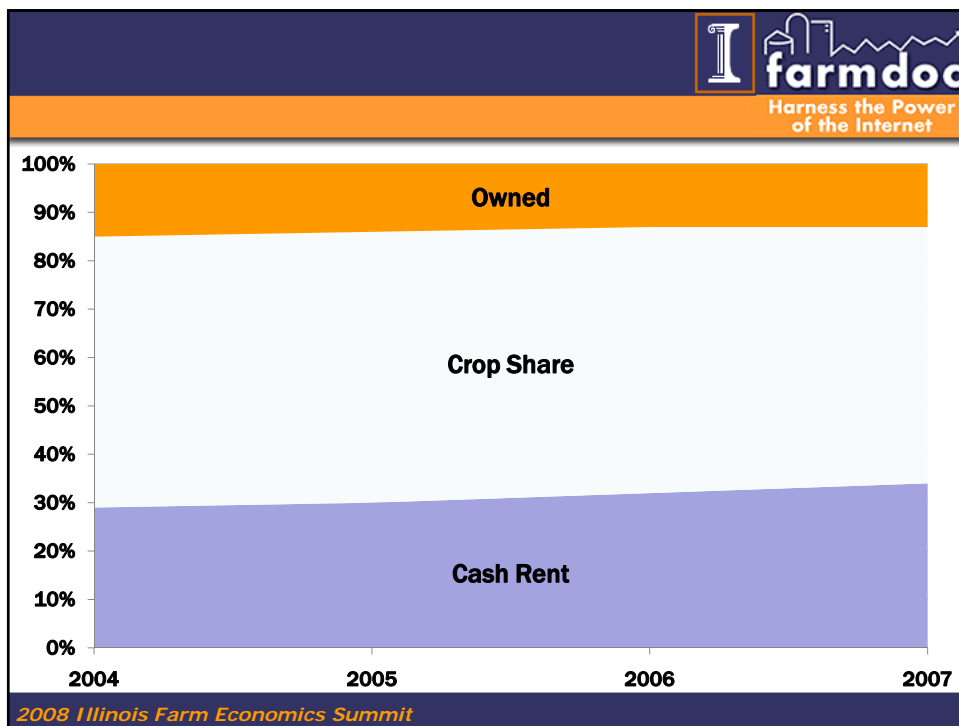
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- Moderate movement towards cash leases
- Adjustments tend to favor land owner
- Time lags
- Average cash rents do not tend to decrease
- More interest in variable cash rental arrangements
- Some custom farming still part of mix

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Per Acre Cash Rents for Top 1/3, Mid 1/3 and Low 1/3  
Cash Rent Leases by Land Quality, 2008

Lease Type	Land Quality			
	Excellent	Good	Average	Fair
High 1/3	\$295	\$258	\$201	\$155
Mid 1/3	\$241	\$207	\$172	\$138
Low 1/3	\$200	\$173	\$148	\$120

Source: Illinois Society of Professional Farm Managers and  
Rural Appraisers, March 2008

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## Comments from Mid-Year (August, 2008) Land Value and Leasing Survey...

- *\$43 per acre increase in cash rents from 2008 to 2009*
- *Overall, cash rents in 2008 averaged \$238 on professionally managed farmland*
- *The average cash rent is expected to increase to \$281 in 2009.*
- *Cash rent will vary with land productivity*

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## Why more interest now in variable cash rent leases?

- Use of cash rent leases in general are increasing.
- Increase in farm profitability (short term?), pressure to raise cash rents.
- Currently, more variability in corn and soybean prices, uncertainty about future price directions.
- Higher input costs result in potential for larger losses if drop in prices and/or yields.

Source: Schnitkey and Lattz, farmdoc FEFO 08-17

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$$\text{Cash rent} = \text{base rent} \times \left[ \frac{\text{actual yield} \times \text{actual price}}{\text{base yield} \times \text{base price}} \right]$$

- **Base rent plus bonus payment, bonus payment based on yield, price or both.**
- **Cash rent is based on \$ per bushel harvested.**
- **Fixed percentage of gross revenue.**

Source: Schnitkey and Lattz, farmdoc FEFO 08-17

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$$\$171 \text{ Cash rent} = \$185 \times \left[ \frac{200 \text{ bu actual yield} \times \$3.50 \text{ actual price}}{180 \text{ bu base yield} \times \$4.20 \text{ base price}} \right]$$


### Example assumptions

- **Base rent is \$185 / acre**
- **Base is set at 180 bu/acre and \$4.20 corn price**
- **Actual yields: 200 bu and corn price of \$3.50**

Source: Schnitkey and Lattz, farmdoc FEFO 08-17

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- **Maximum and minimum levels**
- **How to determine price?**
- **Yields determined: farm vs. county**
- **FSA payments**

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- **Downward pressure on land values**
- **Landowner/tenant: communication a key**
- **Operator may want to be proactive and consider taking the lead in proposing changes to farm leasing terms.**
- **Farm operators are assuming a higher level of risk**



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- Try to avoid long term agreements in volatile economic conditions unless returns and costs are locked in.
- If fixed cash rent arrangement, may want to consider flexible cash rent arrangement or crop share lease.
- If fixed cash rent arrangement, may want to delay setting rent until more reasonable expectations for corn and soybean prices can be made.

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