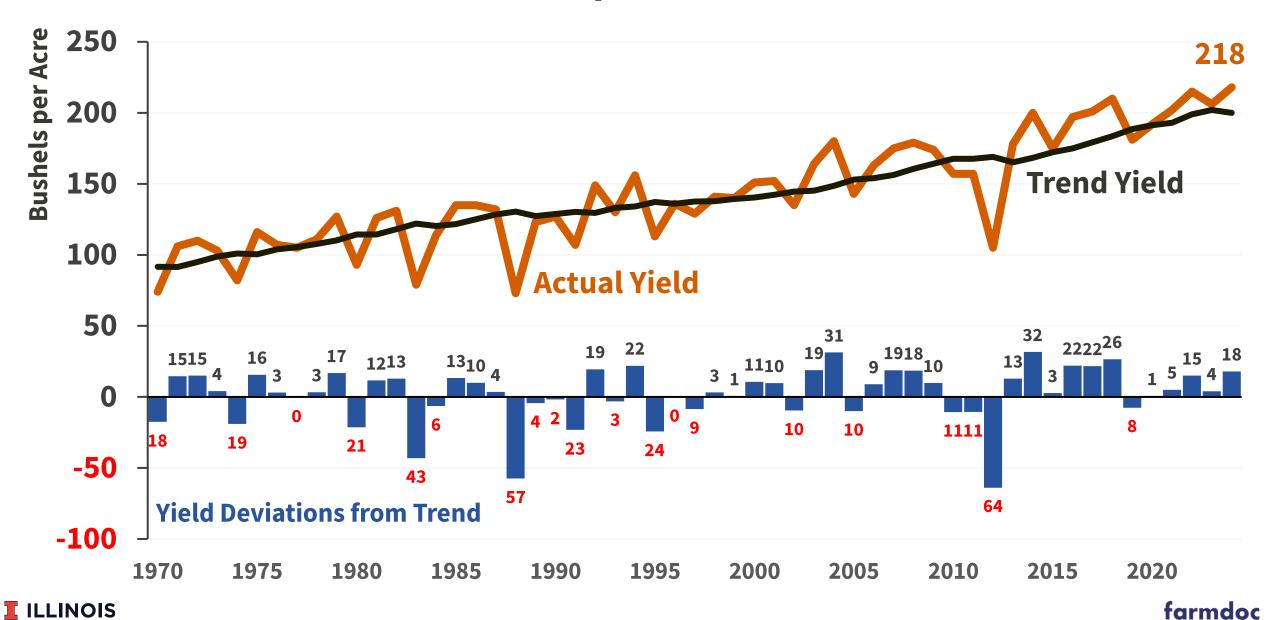
2024 Illinois Farm Economics Summit

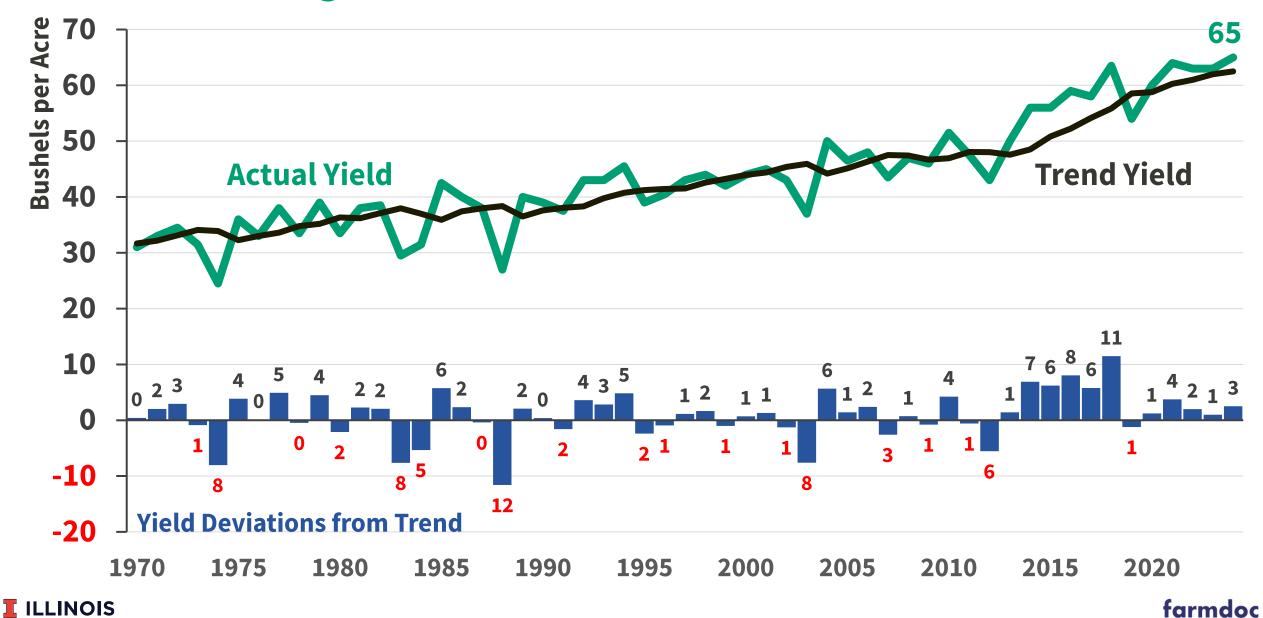


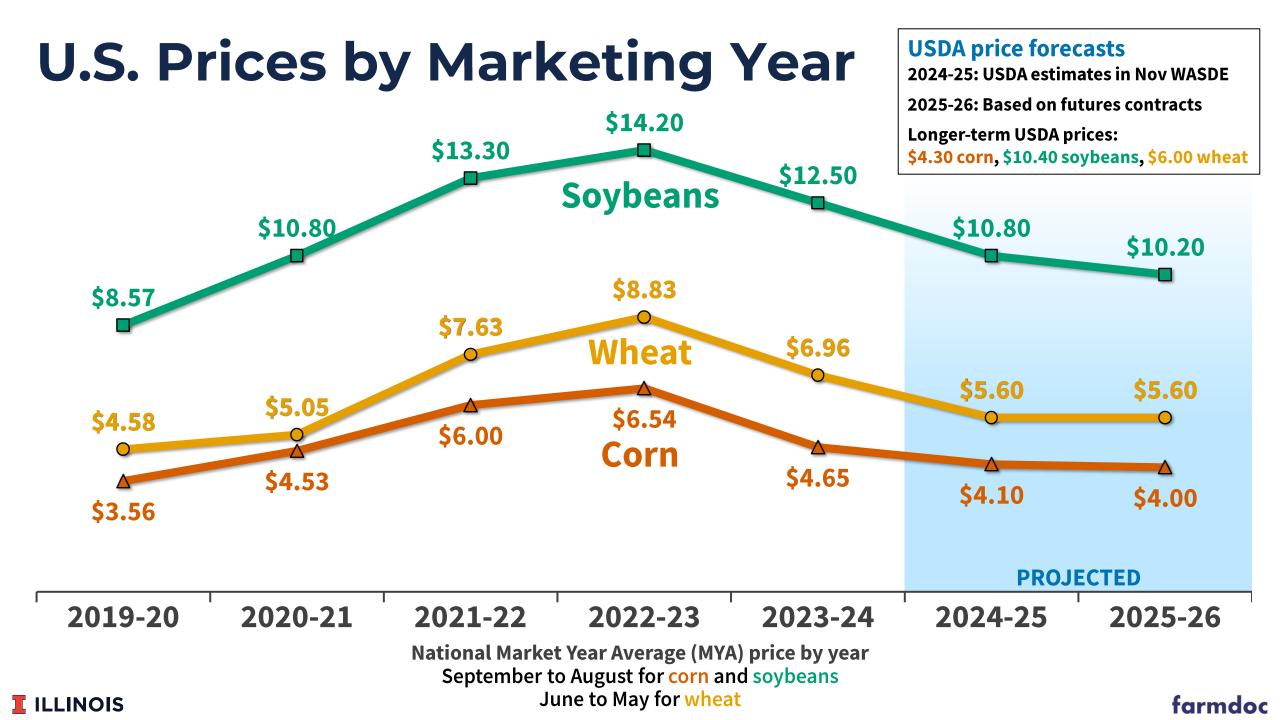


Illinois Corn Yields, 1970 to 2024P

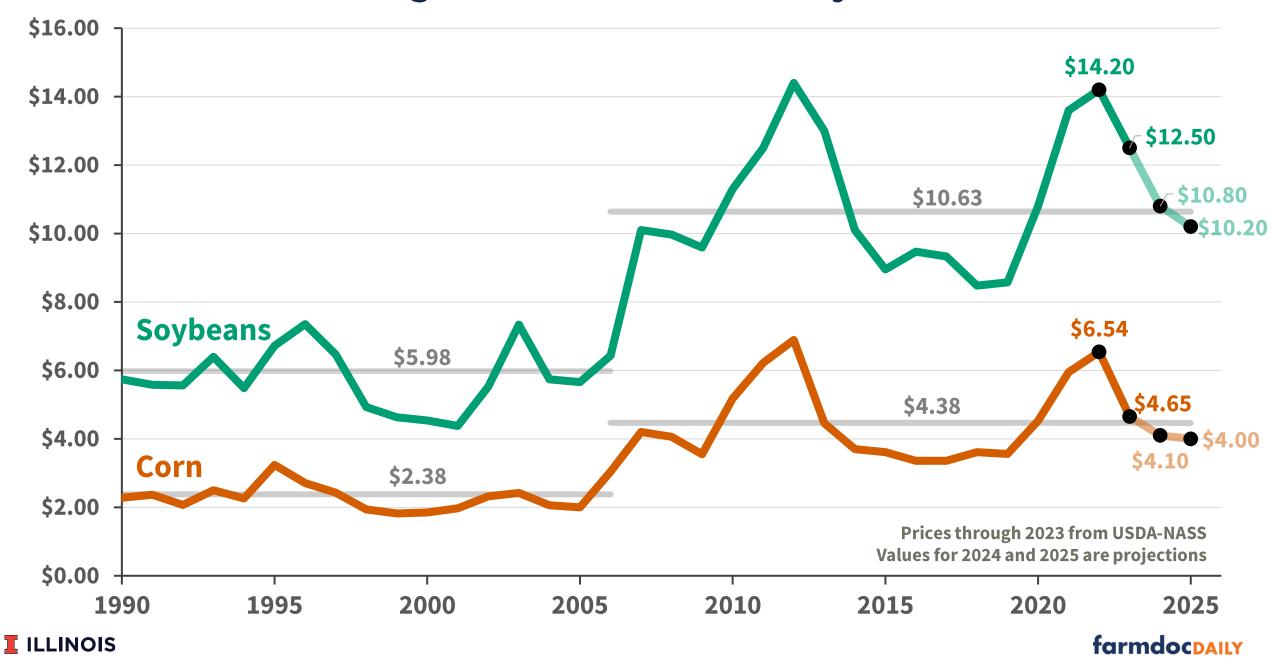


Illinois Soybean Yields, 1970 to 2024P



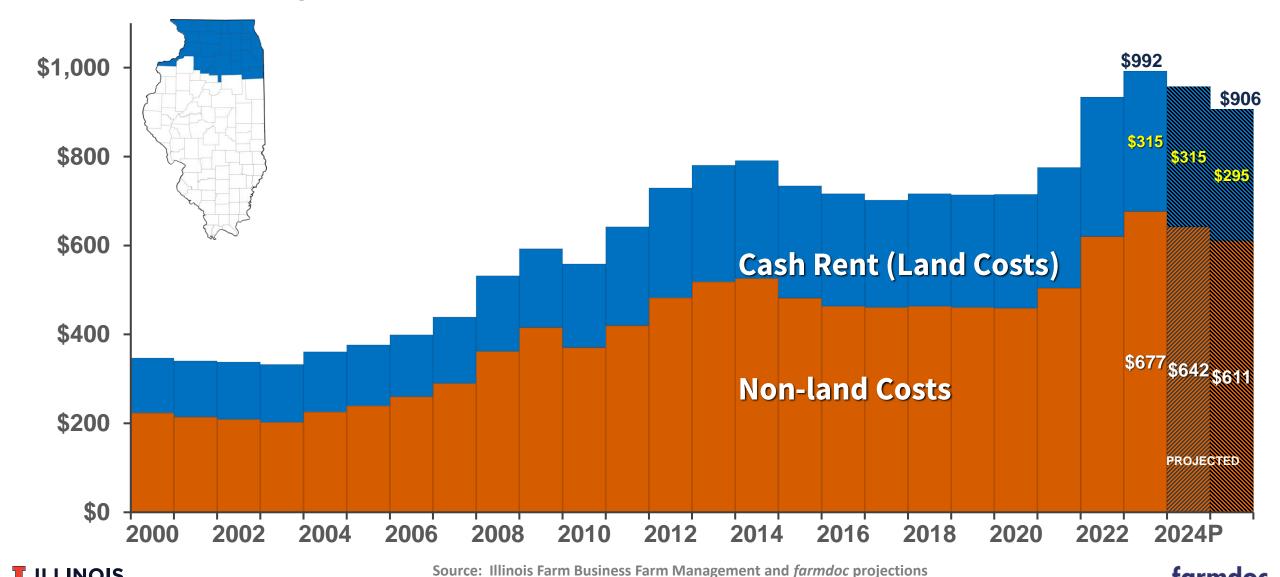


U.S. Market Year Average Prices for Corn and Soybeans 1960 to 2025P





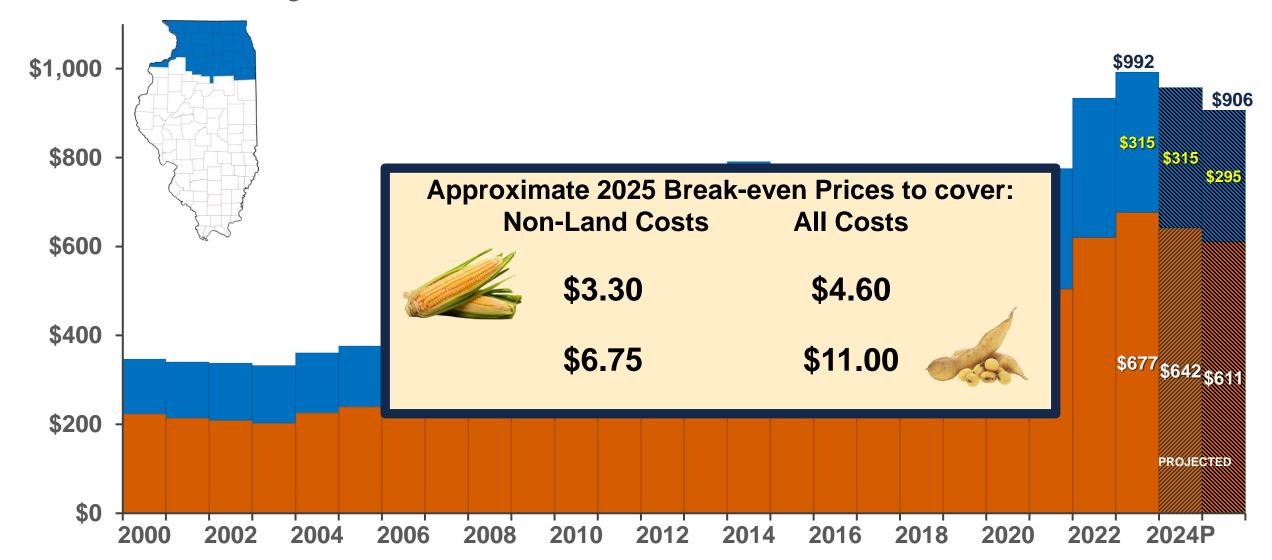
Production Costs for Northern Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P



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Production Costs for Northern Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P

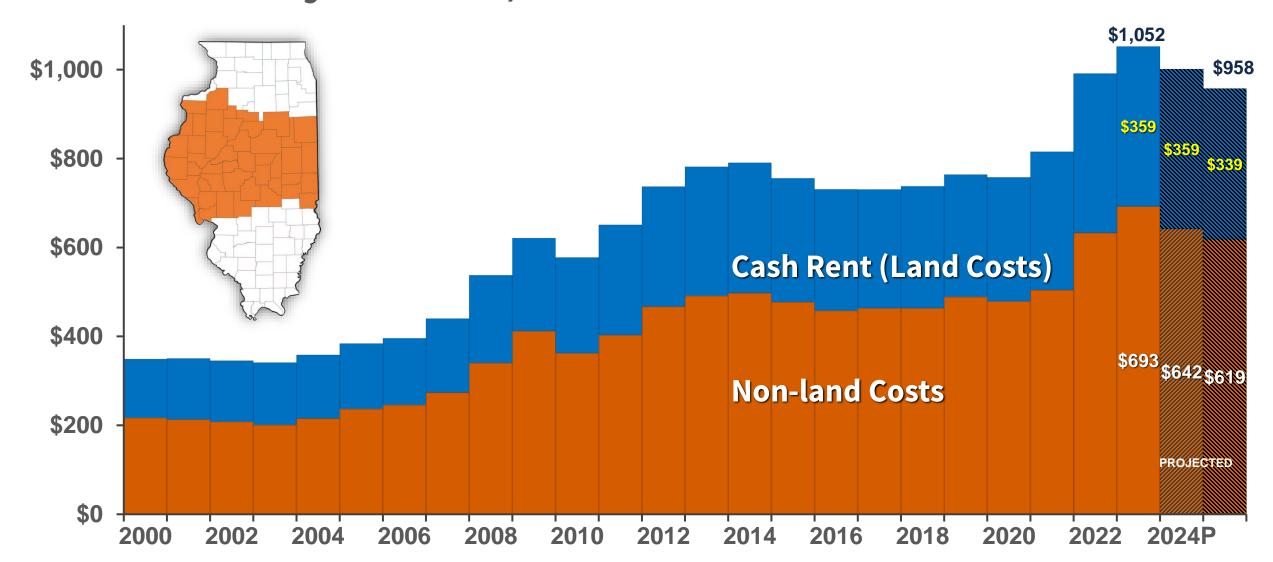


Source: Illinois Farm Business Farm Management and farmdoc projections

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Production Costs for Central Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P





Production Costs for Central Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P

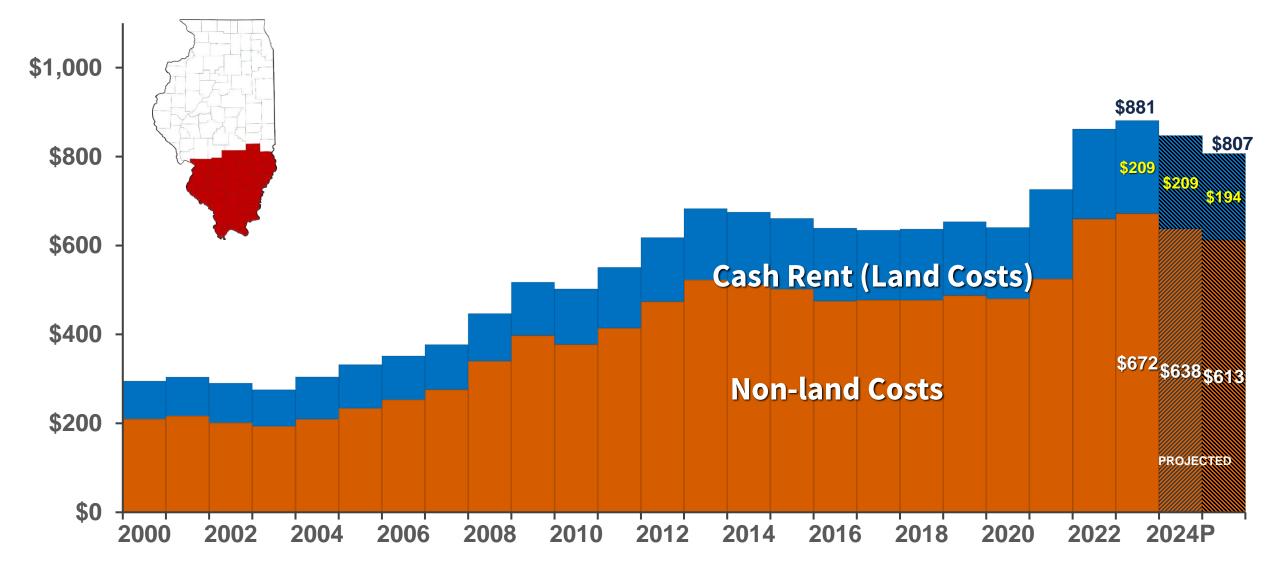


Source: Illinois Farm Business Farm Management and farmdoc projections

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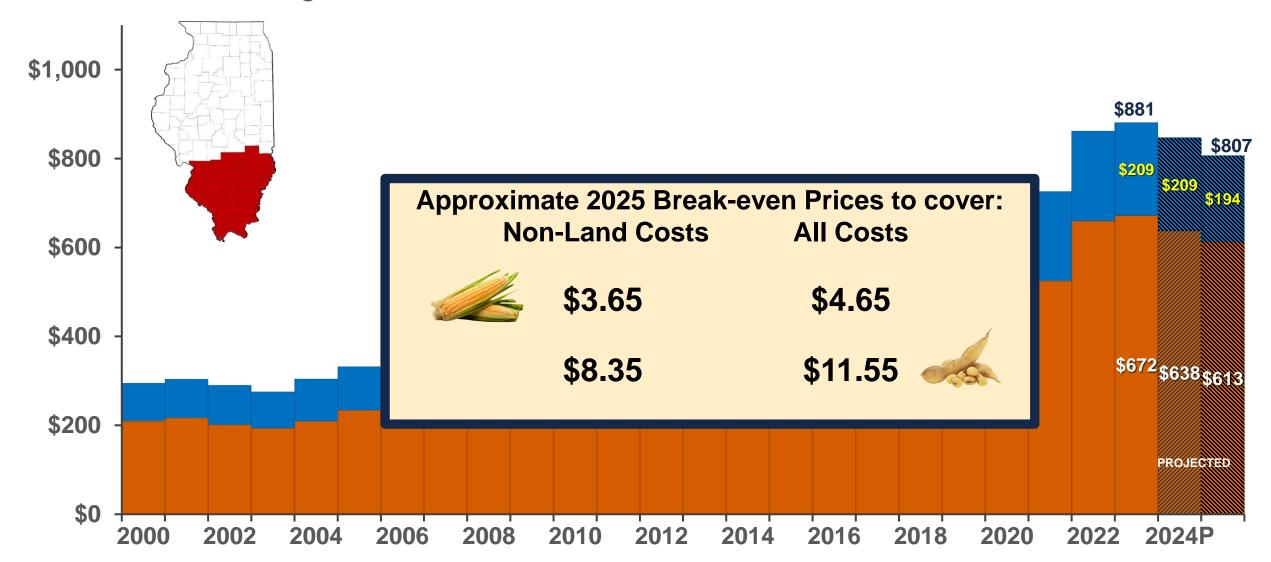
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Production Costs for Southern Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P





Production Costs for Southern Illinois in \$ per acre 50-50 Corn-Soy Rotation, 2000 to 2025P

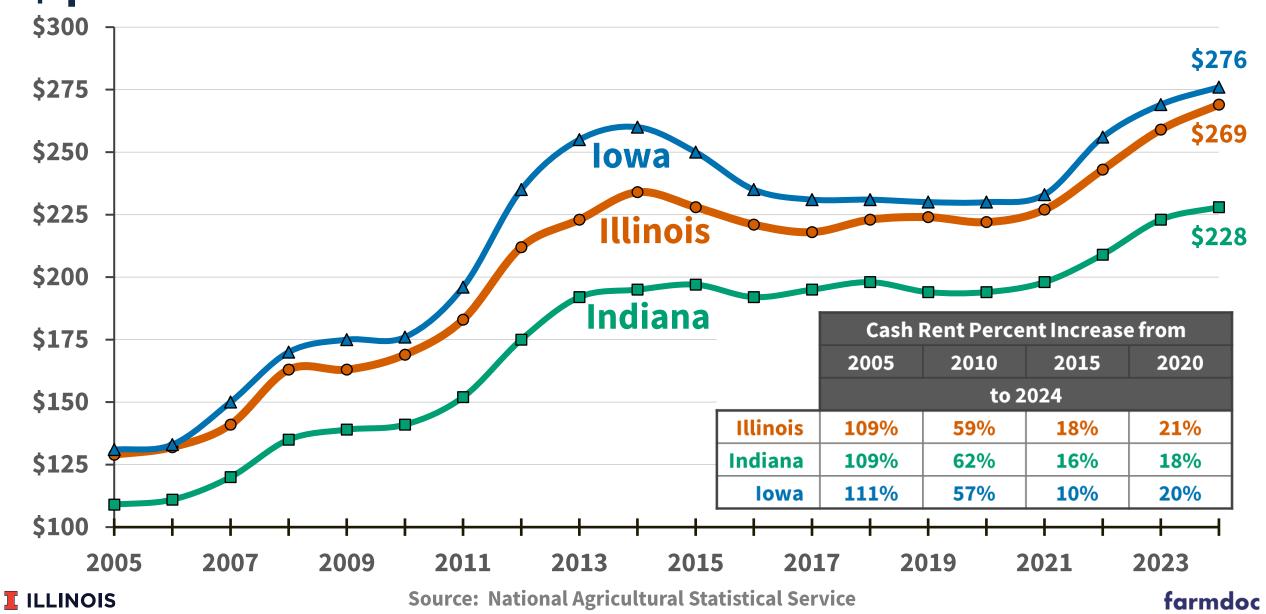


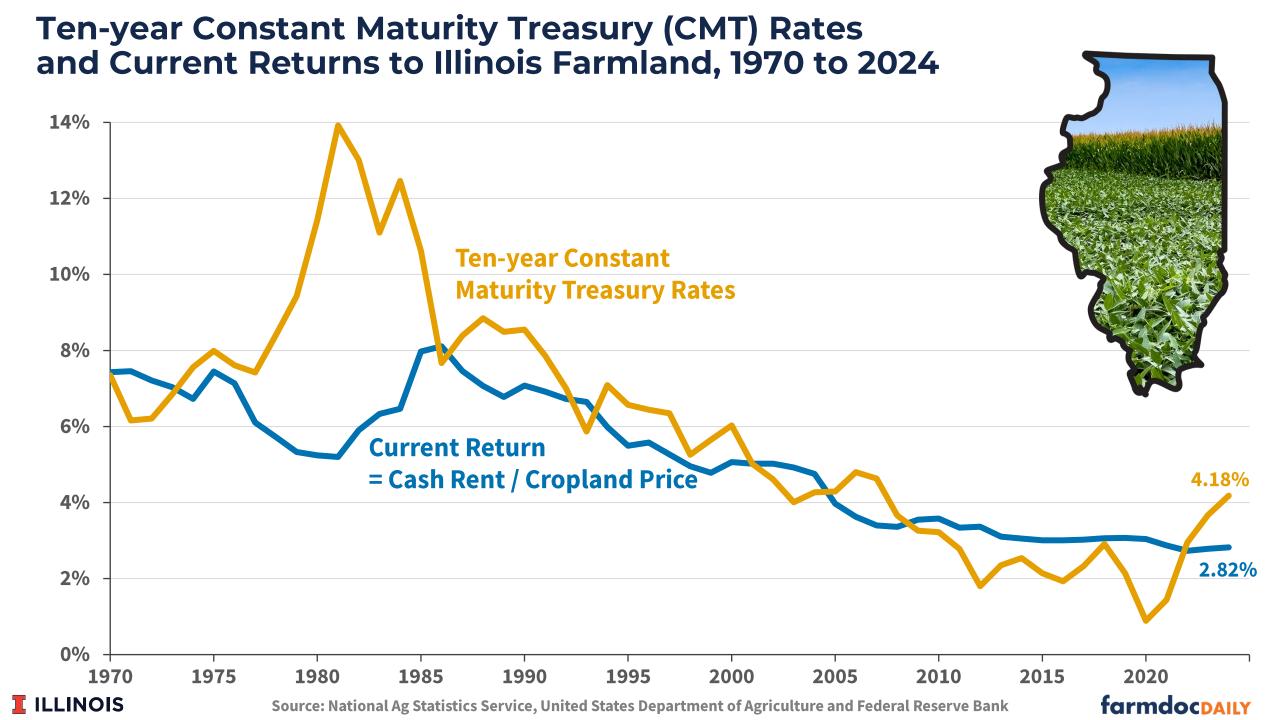
Source: Illinois Farm Business Farm Management and farmdoc projections

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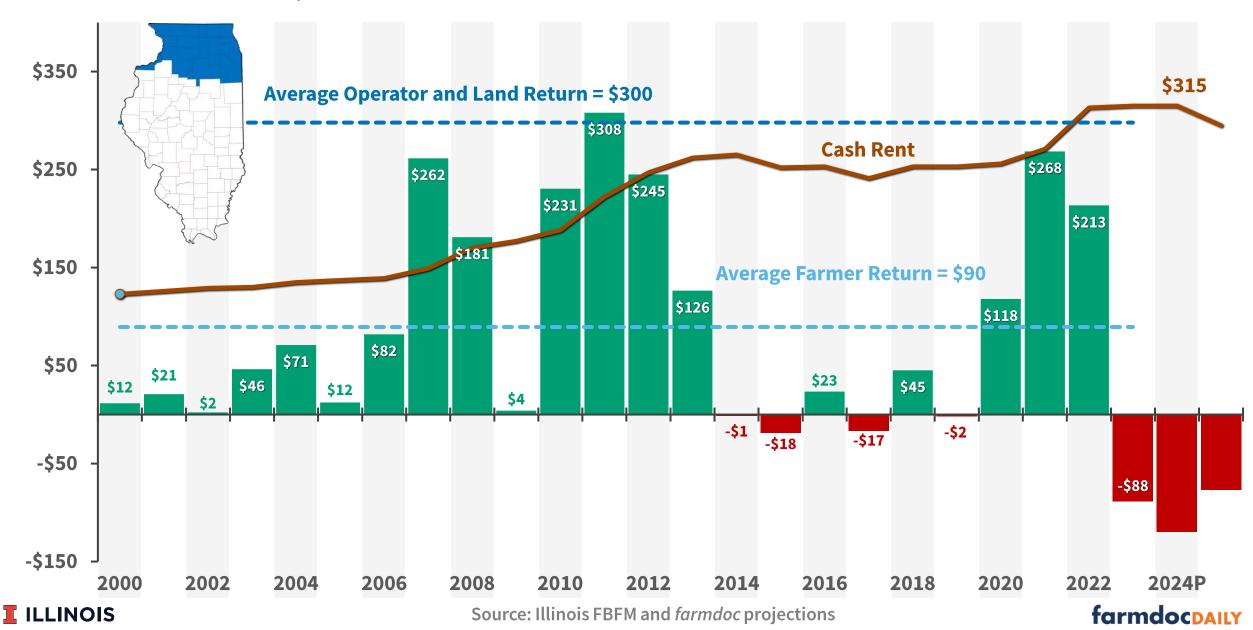
Average Cash Rents in Illinois, Indiana, and Iowa \$ per acre



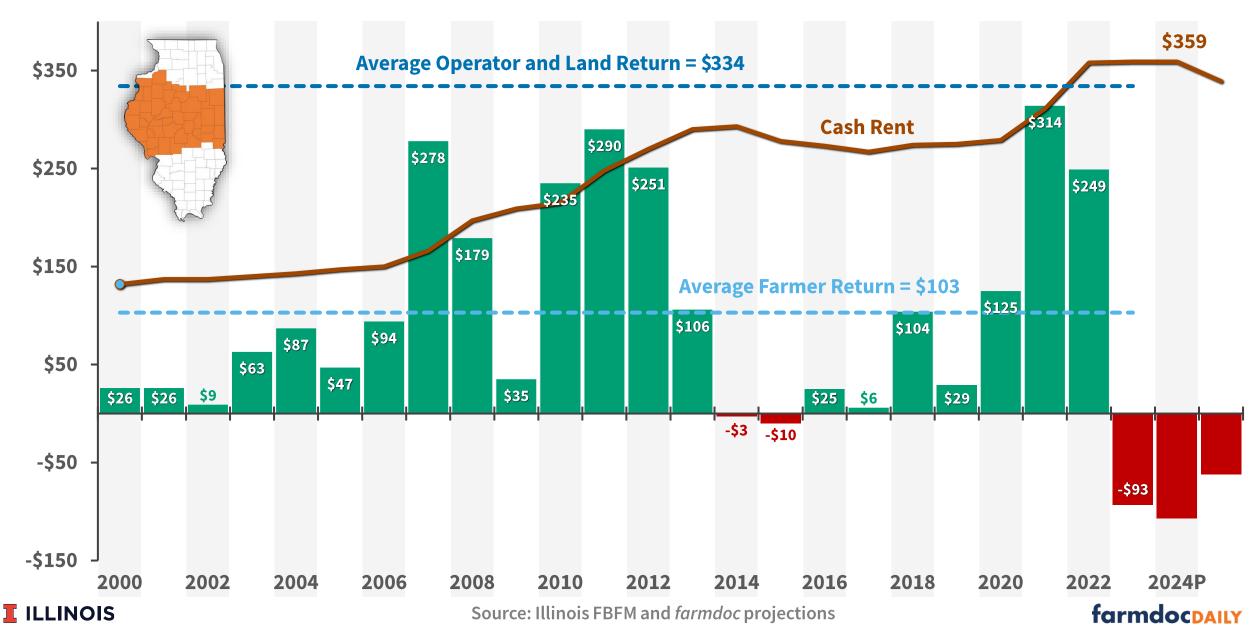




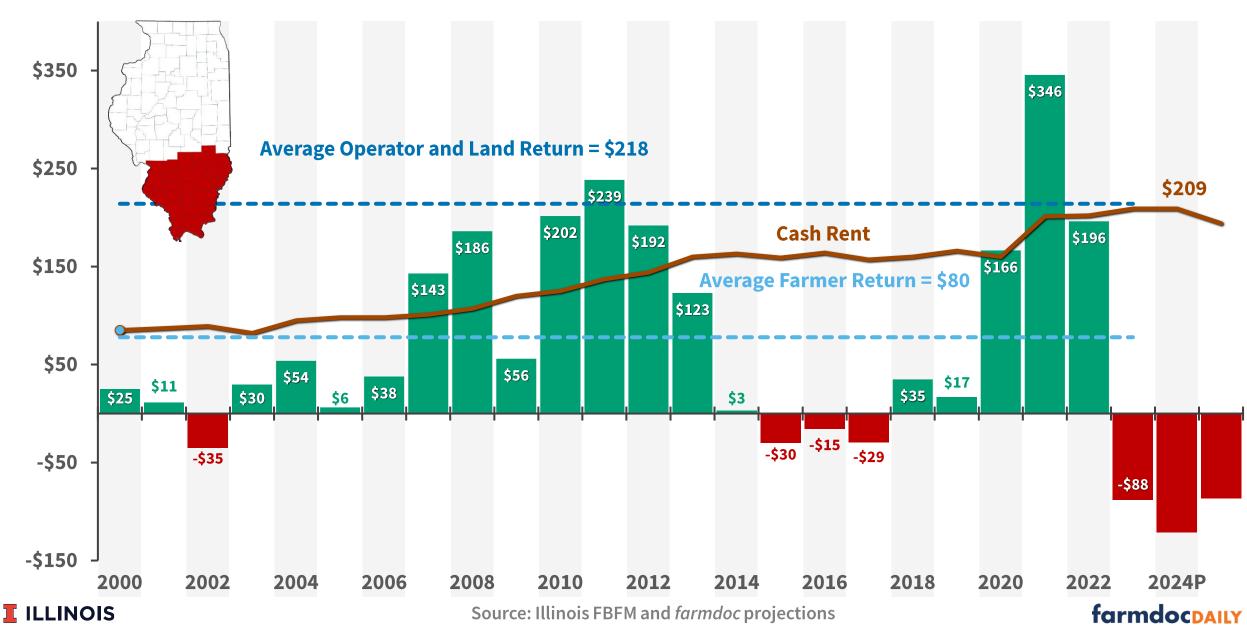
Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre on Northern Illinois, Cash Rented Farmland



Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre on Central Illinois, Cash Rented Farmland

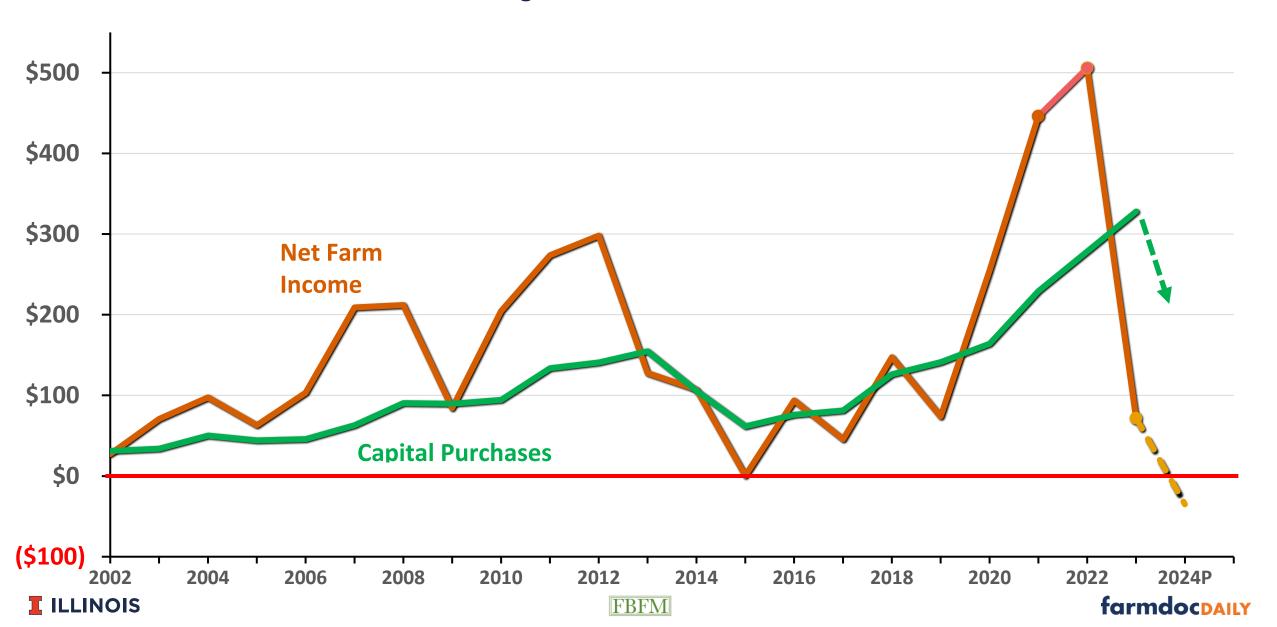


Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre on Southern Illinois, Cash Rented Farmland



Net Farm Income and Capital Purchases on Grain Farms (in \$1,000)

Enrolled in Illinois Farm Business Farm Management



Strategies for Dealing with Low Income



Corn and Soybeans

Commodity-based business with little ways of differentiating oneself

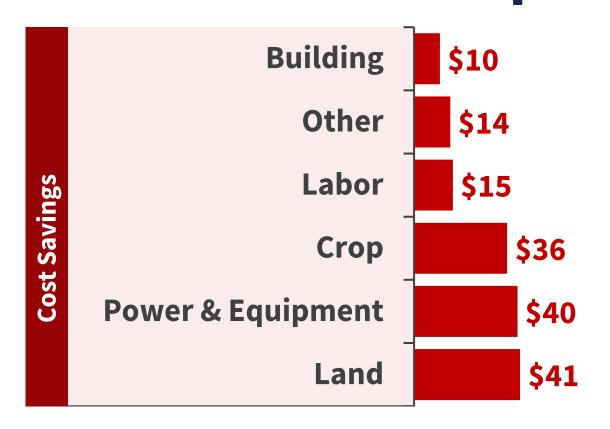
- Commodity-based business with attributes
 - Easy in and out: Non-GMO soybeans, Food grade corn
 - Marketing with on-farm storage
 - More difficult in and out: Organic
- Low-cost producer has the advantage
- Land strategies: What are you going to do about cash rents?
- Growth strategies: An operation needs to grow
 if it plans on being in business for more than ten years



Strategies

- 1. Be a low-cost producer
- 2. Reassess land rental strategies
- 3. Take advantage of available government programs

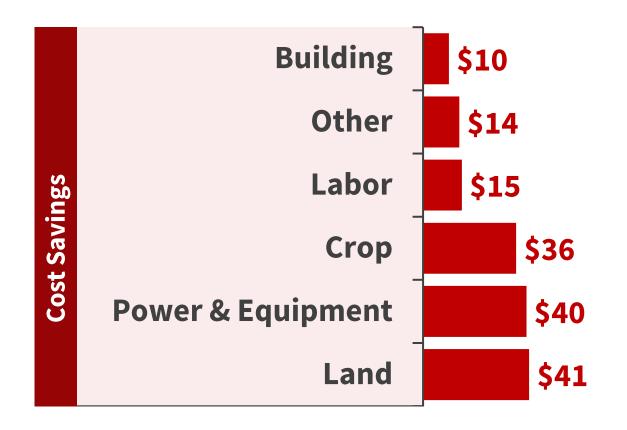
1. Be a low-cost producer



Financial advantage between highest profit grain farms (high 1/3) and the lower profit grain farms (low 1/3)



Be a low-cost producer











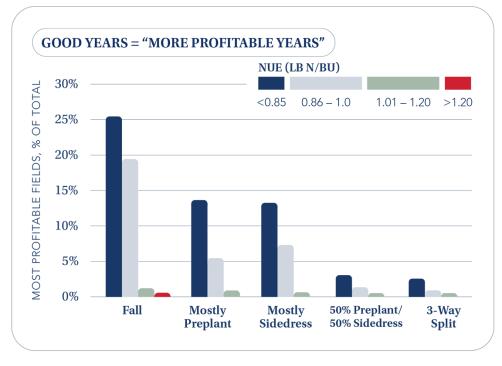
The same producers have:

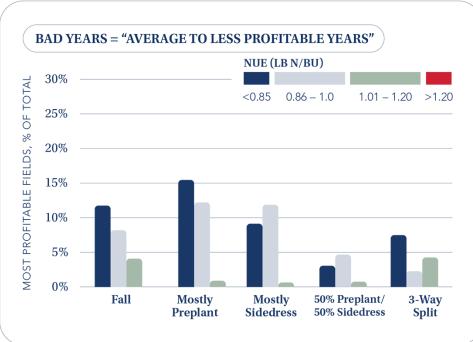
- Above university nitrogen rate
- Higher pesticide costs
- More tillage passes

See Schnitkey and Gentry, "Strategies for Withstanding Low-Profitability Years", Farmdoc webinar, December 10, 2024

Apply nitrogen at university recommended rates

Corn N RATE, HIGH SPR, LBS PER ACRE I 2015-23 AVG VALUES	<150	151-175	176-200	201-225	>225
# fields	181	599	1,854	2,558	1,430
AVG Corn Yield (bu/a) 2015-23	208	218	220	223	229
OPERATOR & LAND RETURN	\$361	\$371	\$365	\$354	\$346
GHG emissions (metric tons CO2e/a)	0.38	0.61	0.66	0.74	0.9
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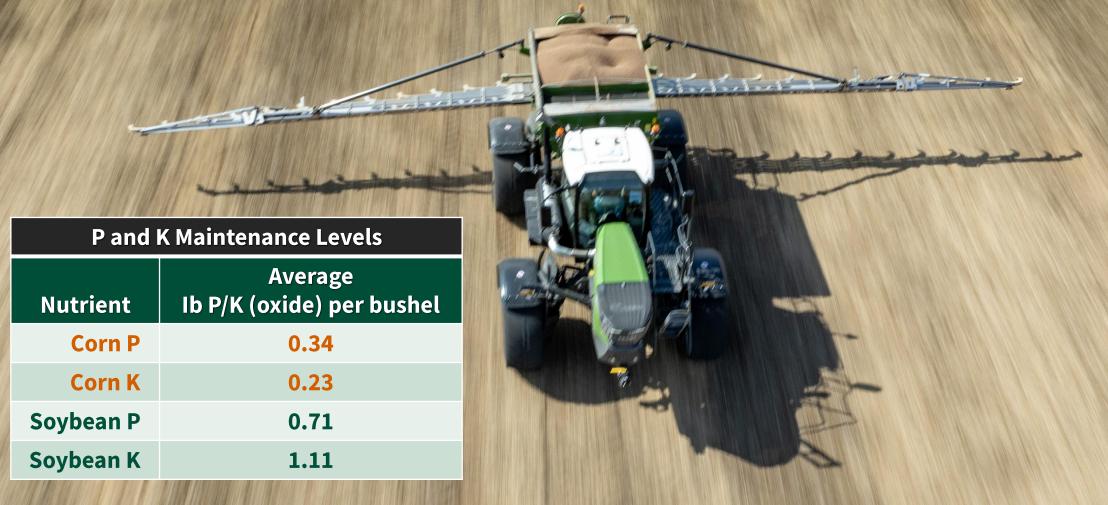


Most Profitable Corn Acres, Parsed by Nitrogen Management

- Nitrogen application RATE is the most important N management decision for determining profitability
- Nitrogen application TIMING becomes more important in lower commodity price years



Keep P and K in soil test lines



Consider Reducing Tillage Pass

Corn HIGH SPR 2015-23 AVG VALUES	NO-TILL	STRIP TILL	1-PASS LIGHT	2-PASS LIGHT	2-PASS MODERATE	2+ TILLAGE PASSES
# of fields	1,262	1,628	1,964	708	889	112
Yield per acre	219	221	222	227	227	223
TOTAL NON-LAND COSTS	\$584	\$618	\$587	\$609	\$620	\$632
OPERATOR & LAND RETURN	\$360	\$335	\$365	\$367	\$355	\$331

Lower tillage systems are more profitable in the lower return years

Delay capital purchases

- Particularly machinery
- Prioritize purchases that have the potential to increase revenue in the future (e.g., tile, farmland, on-farm storage)

Strategies

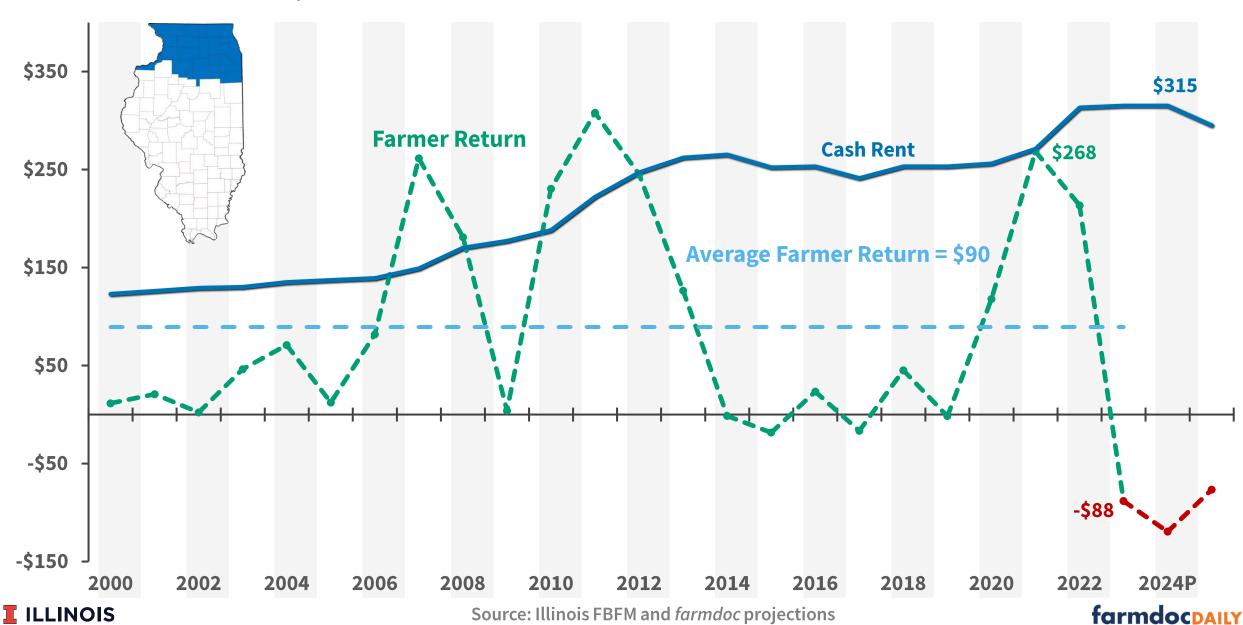
- 1. Be a low-cost producer
- 2. Reassess land rental strategies
- 3. Take advantage of available government programs

Land Strategies

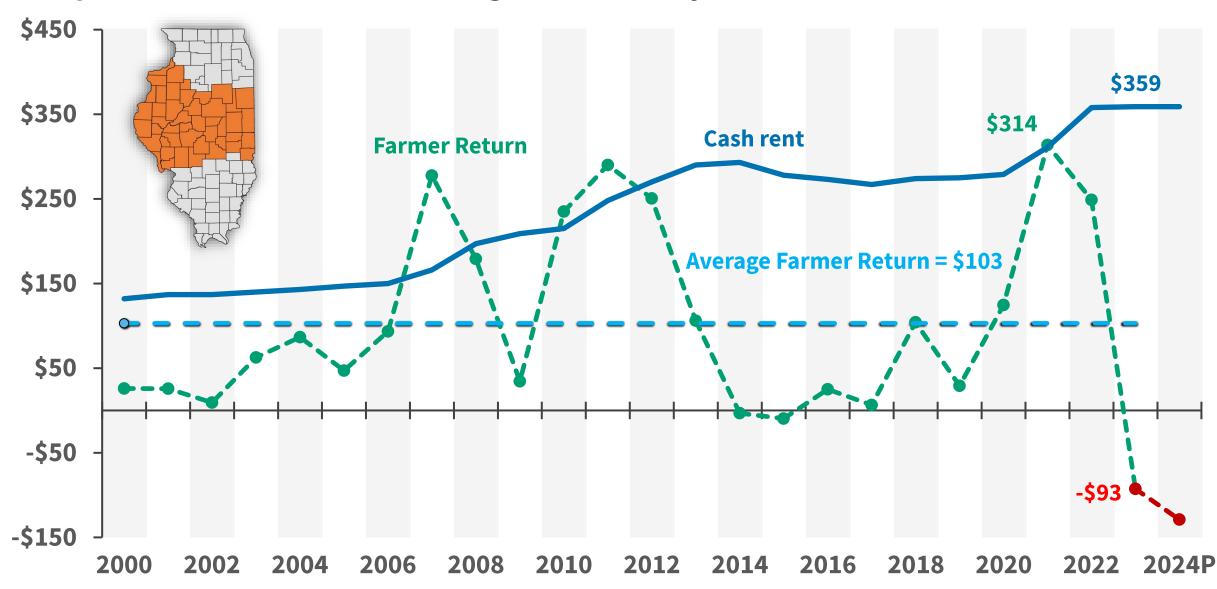
- Marketing approach:
 How is the farm going to
 attract new landowners?
- Farm resume and a sales pitch
- How much will/can the farmer pay for cash rent farmland?



Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre on Northern Illinois, Cash Rented Farmland



Cash Rent and Farmer Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre on Central Illinois, High-Productivity Farmland, Cash Rent Farmland

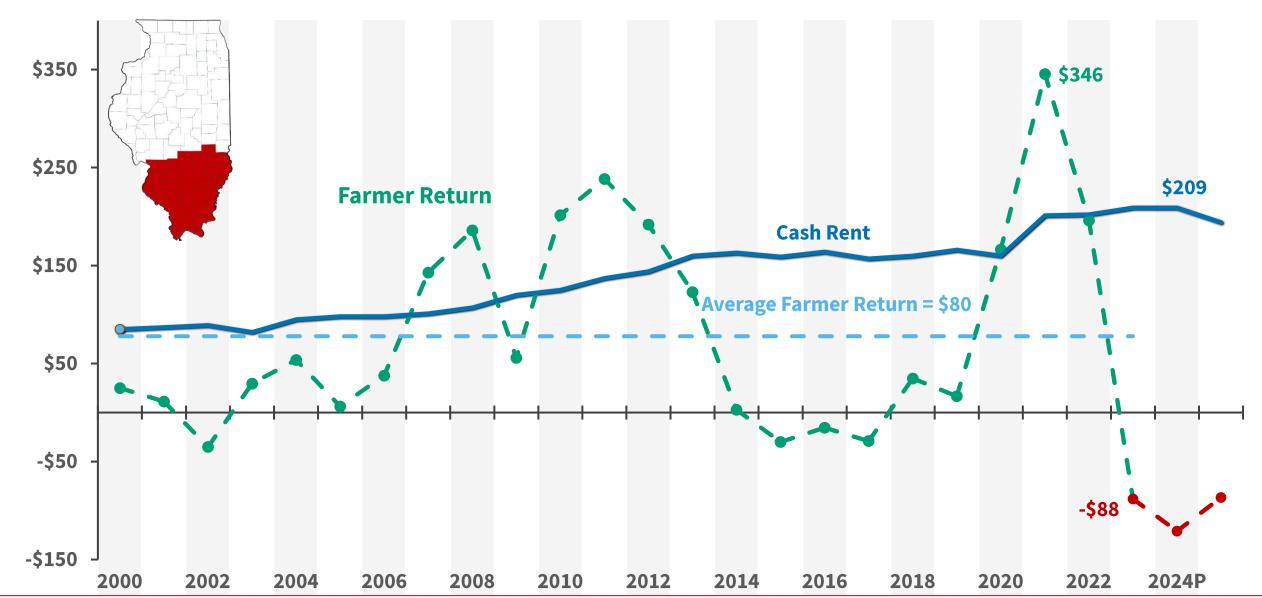


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Source: Illinois FBFM

Returns to a 50% Corn – 50% Soybean Rotation in \$ per acre

on Southern Illinois, Cash Rented Farmland



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Source: Illinois FBFM and farmdoc projections

Philosophy

Farm for a break-even in most years, waiting for the high returns in a minority of years (high-income years 2007-2008, 2010-2012, 2020-2022)

Problem 1:

When will the high-income years happen again? It could be next year or ten years from now

Problem 2:

Profits are extremely low now and projected to continue

What are you going to do with high rent farmland?

- Established farms with a stable land base (small portion of high cash rent farmland): Why do this?
- Younger operators relying on more rented land with high cash rents:
 - How long can this go on?

Strategies

- 1. Be a low-cost producer
- 2. Reassess land rental strategies
- 3. Take advantage of available government programs

Programs

- •ARC/PLC
- Crop insurance likely need high levels, stick with Federally subsidized products: High-coverage level RP, maybe add ECO
- Ad Hoc federal payments (e.g., Emergency Relief Program, proposed FARM program)
- Farming practice (Soil Health) payments



Thank You!





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