

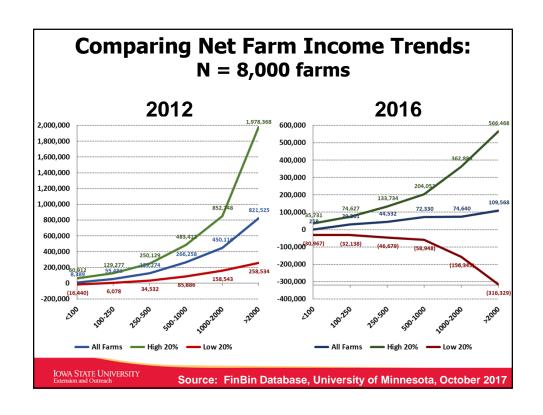
November/December 2017

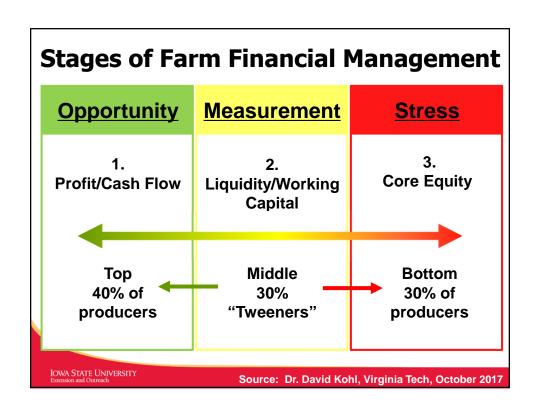
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IOWA STATE UNIVERSITY







Top 40%: Proactive Producers

- Make incremental improvements
- Higher crop market prices (\$20 to \$40/A)
- Lower cash rent (\$20 to \$50/A)
- Lower fertilizer costs (\$20 to \$50/A)
- Modest family living expenses
- Sound financial management
- Utilize a "systems approach."



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Source: Dr. David Kohl, Virginia Tech University, October 2017

Bottom 30%: Reactive Producers

- Lack financial management skills
- Operate using Schedule F with "minimize taxes" mentality
- Marginal resources: devaluing machinery & equipment, buildings
- High maintenance living costs
- Know it all or victim mentality
- Demographics are cycling them out.

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Source: Dr. David Kohl, Virginia Tech University, October 2017

Case Study: Mike Merchandiser's Farm

- 1,580 Row-crop acres (1,300 acres in corn)
- 200,000 bushels of on-farm storage
- Fall/Winter cash flow needs of \$700,000
- 3,000 Row-crop acres with family members (shared combine, sprayer and labor)
- Marty's Actual Production History (APH) = 166 bu/A corn and 48 bu/A soybeans
- Buys Revenue Protection (RP) at the 80% level
- Pre-harvest markets up to 70% of corn APH using December futures (HTAs and Hedges).

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Source: Frontier Farm Credit, November 2017

Mike Merchandiser Case Study

STATUS QUO

780 owned acres; 800 rented Solvent operation:

• Net Worth \$6.1 million ↓

Profitable:

 2017 Net farm income projected: \$61,500

Problem: 2017 purchases:

- Adjoining 80 acres @ \$5,000/A
- Built new 30,000 bushel grain bin
- Traded for newer combine
- Working capital reduced to \$250
 per acre

PROPOSED SOLUTION

- 1. Manage crop costs & family living expenses
- 2. Merchandise grain
 - a) Use Revenue Protection w/HTA contracts & hedging pre-harvest
 - b) Develop a marketing plan for remaining unpriced 2017 bushels
- 3. Making profit and cash flow management the priority!

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Source: Frontier Farm Credit, November 2017

Mike Merchandiser: Financial Changes (as of December 1, 2017)

| Financial Categories | Status Quo | Proposed Solution |
|--------------------------------------------------|------------|----------------------|
| Working capital per acre (total crop acres) | \$250/A | |
| Machinery debt per acre (total crop acres) | \$26/A | |
| Real estate payments per acre (total crop acres) | \$128/A | |

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Source: Frontier Farm Credit, November 2017

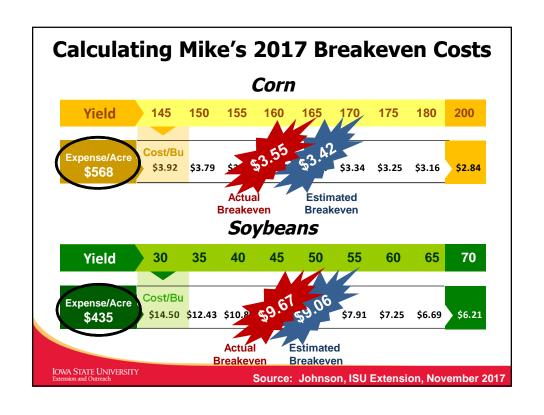
Association Financial Guidelines

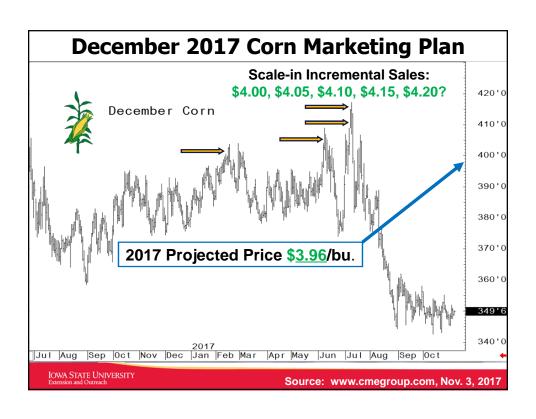


| Financial Categories | Working Capital per acre | Machinery P&I per acre | Real Estate P&I + Taxes per acre |
|-------------------------|--------------------------------|------------------------------|----------------------------------------|
| Red | < \$100 | >\$75 | > \$300 |
| Yellow | \$200- \$100 | \$50-75 | \$200- \$300 |
| Green | > \$200 | <\$50 | < \$200 |

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Source: Frontier Farm Credit, November 2017

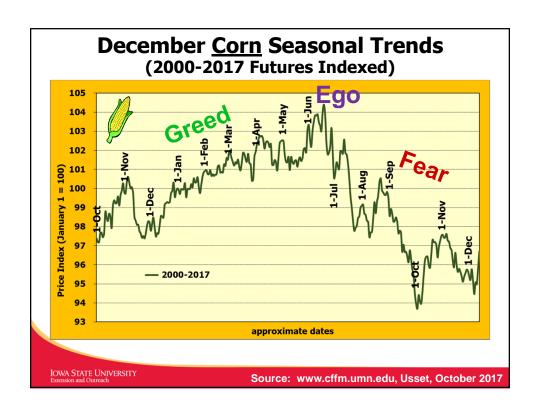


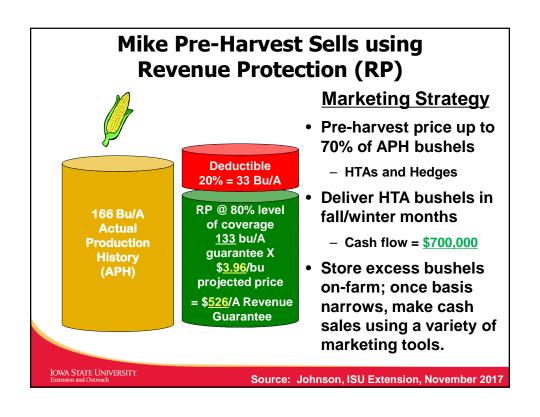


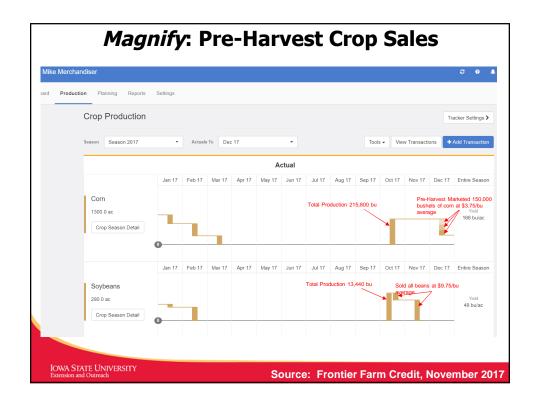
10 Steps for Developing a Crop Marketing Plan

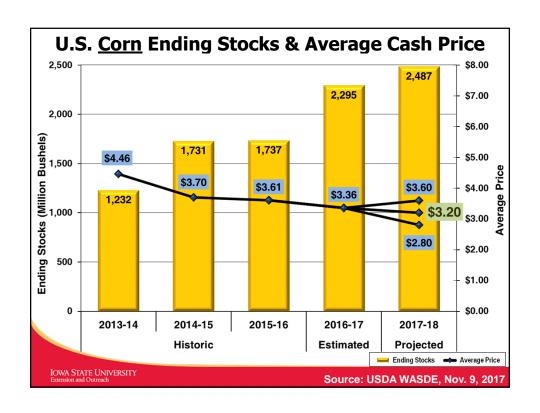
- Step 1: Know your actual cost of production (good records)
- Step 2: Consider your cash flow needs (next 12 months)
- Step 3: Use Your Actual Production History (APH) data
- Step 4: Build in a reasonable profit margin (5% to 10% ROI)
- Step 5: Understand seasonal futures price trends
- Step 6: Track local basis weekly (multi-year data)
- **Step 7: Leverage Revenue Protection insurance**
- Step 8: Utilize a variety of crop marketing tools
- Step 9: Calculate on-farm vs. commercial storage costs
- Step 10: Develop & implement a crop marketing plan.

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| | | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------------|--------------|--------|--------|--------|--------|--------|
| Area Planted | (mil. acres) | 95.4 | 90.6 | 88.0 | 94.0 | 90.4 |
| Yield | (bu./acre) | 158.1 | 171.0 | 168.4 | 174.6 | 175.4 |
| Production | (mil. bu.) | 13,829 | 14,216 | 13,602 | 15,148 | 14,578 |
| Beg. Stocks | (mil. bu.) | 821 | 1,232 | 1,731 | 1,737 | 2,295 |
| Imports | (mil. bu.) | 36 | 32 | 68 | 57 | 50 |
| Total Supply | (mil. bu.) | 14,686 | 15,479 | 15,401 | 16,942 | 16,922 |
| Feed & Residual | (mil. bu.) | 5,040 | 5,280 | 5,114 | 5,463 | 5,575 |
| Ethanol | (mil. bu.) | 5,124 | 5,200 | 5,224 | 5,439 | 5,475 |
| Food, Seed, & Other | (mil. bu.) | 1,369 | 1,401 | 1,424 | 1,452 | 1,460 |
| Exports | (mil. bu.) | 1,920 | 1,867 | 1,901 | 2,293 | 1,925 |
| Total Use | (mil. bu.) | 13,454 | 13,748 | 13,664 | 14,647 | 14,435 |
| Ending Stocks | (mil. bu.) | 1,232 | 1,731 | 1,737 | 2,295 | 2,487 |
| Season-Average Price | (\$/bu.) | 4.46 | 3.70 | 3.61 | \$3.36 | \$3.20 |

2018 Livestock Outlook Nova State University Exercises and Outrook Source: Jim Robb, Livestock Marketing Information Center, November 2017

2018 Livestock Outlook

- Strong domestic and export demand for protein
- Positive outlook
- Increasing production
- Growing feed demand



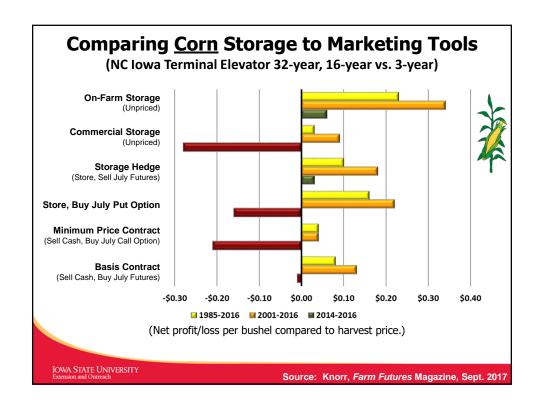
IOWA STATE UNIVERSITY Extension and Outreach Source: Jim Robb, Livestock Marketing Information Center, November 2017

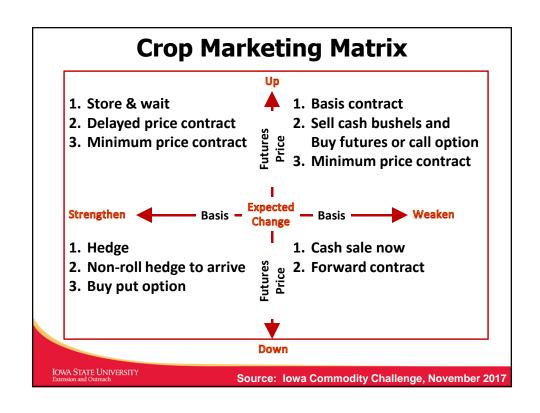
Comparing Storage to 4 Crop Marketing Tools 1. Store Grain 5. Basis Contract: Sell Inpriced until Late Cash, Buy July <mark>Ju</mark>ne (On-Farm vs. **Futures** Commercial Storage) 4. Minimum Price 2. Storage Hedge: Contract: Sel Store, Sell July Cash, Buy a July **Futures or Forward** Call Option (ATM) **Contract/HTA for July Delivery** 3. Store Bushels: Buy a July Put Option (ATM) IOWA STATE UNIVERSITY Source: Johnson, ISU Extension, November 2017

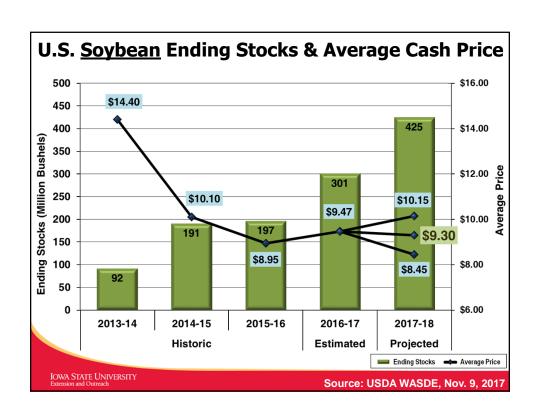
Comparing Storage Study (Assumptions)

- Bar graphs show the results of different storage versus marketing tools during the 1985 2016 crop years.
- On-farm storage includes interest charge on stored grain using prevailing operating and CCC loan rates.
- Handling charges are 1 to 2 cents per month for on-farm storage, 2.5 to 5 cents per month for commercial storage.
- Figures do not include depreciation on grain bins and equipment.
- All positions are initiated the first week of October and liquidated upon expiration of July options for corn and soybeans in late July.
- Brokerage commissions and slippage figured at \$100 per round trip, or two cents per bushel.

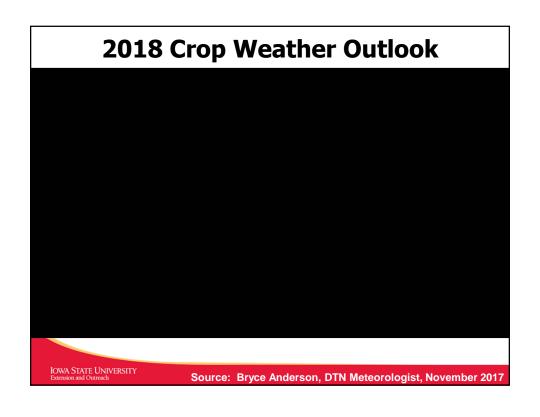
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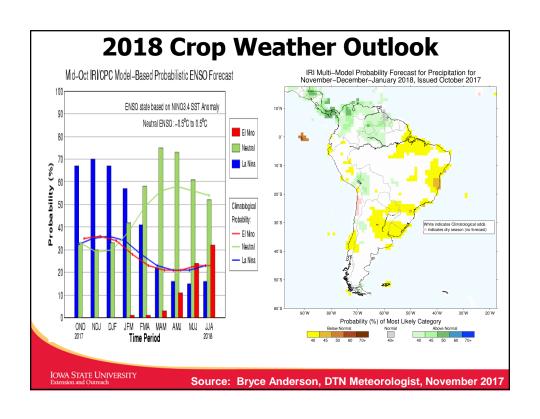


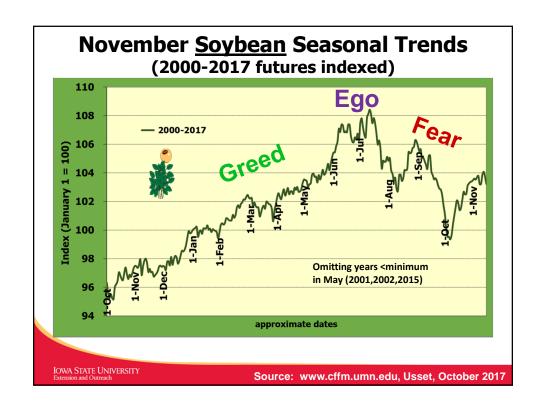




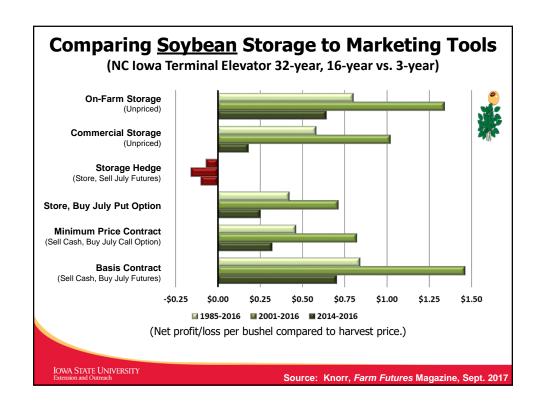
| U.S. <u>So</u> | ybean | Sup | ply | and | Use | |
|----------------------|--------------|-------|-------|-------|--------|-------|
| | | 2013 | 2014 | 2015 | 2016 | 201 |
| Area Planted | (mil. acres) | 76.8 | 83.3 | 82.7 | 83.4 | 90. |
| Yield | (bu./acre) | 44.0 | 47.5 | 48.0 | 52.0 | 49. |
| Production | (mil. bu.) | 3,358 | 3,927 | 3,926 | 4,296 | 4,42 |
| Beg. Stocks | (mil. bu.) | 141 | 92 | 191 | 197 | 30 |
| Imports | (mil. bu.) | 72 | 33 | 24 | 22 | 2 |
| Total Supply | (mil. bu.) | 3,570 | 4,052 | 4,140 | 4,515 | 4,75 |
| Crush | (mil. bu.) | 1,734 | 1,873 | 1,886 | 1,899 | 1,94 |
| Seed & Residual | (mil. bu.) | 107 | 146 | 115 | 141 | 13 |
| Exports | (mil. bu.) | 1,638 | 1,842 | 1,942 | 2,174 | 2,25 |
| Total Use | (mil. bu.) | 3,478 | 3,862 | 3,944 | 4,214 | 4,32 |
| Ending Stocks | (mil. bu.) | 92 | 191 | 197 | 301 | 42 |
| Season-Average Price | (\$/bu.) | 13.00 | 10.10 | 8.95 | \$9.47 | \$9.3 |

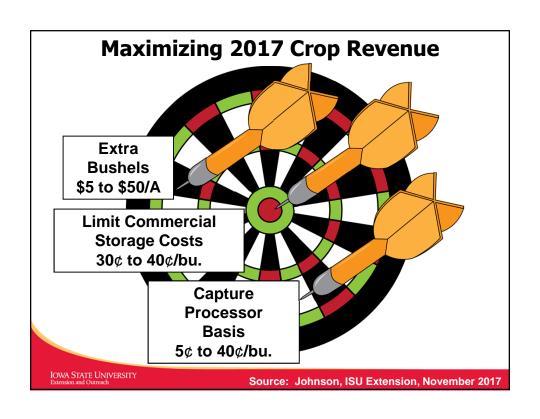


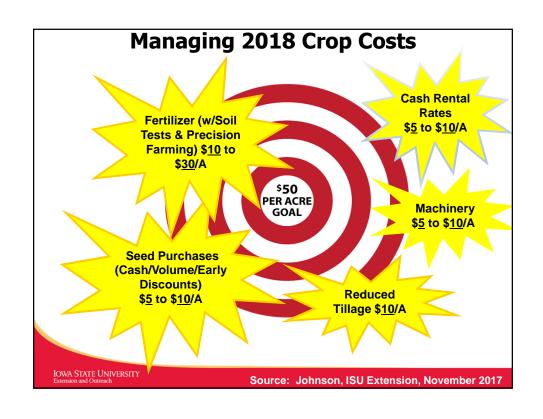














Solutions for Success Websites

- ISU Extension Ag Decision Maker (Monthly Newsletter, Decision Tools, Iowa Commodity Challenge with videos, Marketing Tools Workbook, etc.) www.extension.iastate.edu/agdm
- Iowa Farm Outlook & News (Monthly Newsletter) www.econ.iastate.edu/ifo
- Livestock Marketing Information Center www.lmic.info
- ISU Polk County Ext. Farm Management www.extension.iastate.edu/polk/farm-management
- Farm Credit Services of America www.fcsamerica.com

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Source: Johnson, ISU Extension, November 2017