# Mastering Margins Post Crash 

Attention to Details
The Business Approach


## Manage Risk and Recognize Opportunities

- Your operation, observations, and land rents.
- Cost of production and trend analysis strategies
- Decision making and scenario planning

- Lender concerns for the next few years
- Equipment costs / per acre and efficiency management
- Manage risk - setting goals and taking action


## Opportunities for Collaboration

- Average age of the producer is 65 PLUS.
- Technology is/has surpassed many.
- Demand -Supply (Ethanol, China, Exports, Food,\& Feed)
- Limited Land Availability (Decreasing Resource)
- Market Volatility ( Production, Exports, Dollar, Oil, Funds \$\$)
- Limited Capital within individual farms
- Efficiency of Scale
- Less Government Support
- Synergy-(Can't be good at everything)
- Disability Insurance Or "Production Assurance"


## Networking Opportunities are Everywhere

- How do you communicate with a prospective renter / land owner ?
- Are you making the right statements?
- Are you asking the right questions?

- Don't Ask: I'd be interested in renting your farm if the opportunity arises.
- Do Ask: I'd like to learn about your operation.


## Question \#1

1. Do you have a production goal ?
a. Maximize Yields

* Seed

* Fertility N P K , Crop Protection
* Soil Management / Compaction ...Tile, Tillage
* Agronomic Focus "Better Yields = lower Cost/Bu."


## Question \#1

1.Do you have a cost reduction goal ?
a. Maximize Savings

* Seed
* Fertility N P K
* Soil Management / Compaction ...Tile, Tillage
* Agronomic Focus "Better Yields = lower Cost/Bu."


## Question \#1

## This is the Important One!

1. Do you have a Business Plan?

## a. Maximize ROI



* Understand Investment Value by line item.
* Understand your "Real" Cost of Production I.e. Personal cost
* Profit Maps instead of Yield maps
* Profit Centers evaluation (Profit coming from where?)
* Comprehensive Approach


## What to Cut ???

- Look at the biggest "as a percent" expenses first.

1. Land Rents
2. Equipment per/Ac. \& Bu.
3. Increase Yields VRT Fertilizer, N, Seed

4. Loose ends ?? / Details
5. Basics i.e. Tile ?

- Return to management

Range \$36/ac. to \$226/ac.


Cash Rent
Tracking
System

|  | ISU |  | Difference | Corn | Cost of | Avg. | Per/ Ac. | Ins. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crop Year | AVG. | Cash Rent | Cash Rent | Acres | Prod. Corn | Price Corn | Corn Yield | Income |
| 2010 | $\$ 192$ | $\$ 276$ | $\$ 84$ | 234 | $\$ 837$ | $\$ 4.14$ | 196.2 |  |
| 2011 | $\$ 223$ | $\$ 276$ | $\$ 53$ | 234 | $\$ 902$ | $\$ 5.71$ | 192.3 |  |
| 2012 | $\$ 266$ | $\$ 350$ | $\$ 84$ | 124 | $\$ 951$ | $\$ 6.47$ | 149.7 | $\$ 4,711$ |
| 2013 | $\$ 281$ | $\$ 375$ | $\$ 94$ | 110 | $\$ 979$ | $\$ 4.46$ | 197.3 | $\$ 8,118$ |
| 2014 | $\$ 277$ | $\$ 375$ | $\$ 98$ | 124 | $\$ 938$ | $\$ 3.80$ | 200.0 |  |
| 2015 | $\$ 277$ | $\$ 325$ | $\$ 48$ | 234 | $\$ 879$ | $\$ 3.71$ | 209.0 |  |
| Averages | $\$ 253$ | $\$ 330$ | $\$ 77$ |  | $\$ 4.72$ | $\mathbf{1 9 0 . 8}$ |  |  |


| Crop | Gov. | Total | Total | Gross | Gross |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Income | Income | Expense | Income | Profit | Profit / Acre | ROI |
| $\$ 190,071$ | $\$ 4,509.18$ | $\$ 195,858$ | $\$ 194,580$ | $-\$ 1,278$ | $-\$ 5.46$ | $-0.7 \%$ |
| $\$ 256,940$ | $\$ 4,509.18$ | $\$ 211,068$ | $\$ 261,449$ | $\$ 50,381$ | $\$ 215.30$ | $23.9 \%$ |
| $\$ 120,101$ | $\$ 2,389.48$ | $\$ 117,924$ | $\$ 127,202$ | $\$ 9,278$ | $\$ 74.82$ | $7.9 \%$ |
| $\$ 96,795$ | $\$ 2,119.70$ | $\$ 107,690$ | $\$ 107,033$ | $-\$ 657$ | $-\$ 5.97$ | $-0.6 \%$ |
| $\$ 94,240$ | $\$ 11,408.00$ | $\$ 116,312$ | $\$ 105,648$ | $-\$ 10,664$ | $-\$ 86.00$ | $-9.2 \%$ |
| $\$ 181,441$ | $\$ 6,084.00$ | $\$ 205,686$ | $\$ 187,525$ | $-\$ 18,161$ | $-\$ 77.61$ | $-8.8 \%$ |
| $\$ \mathbf{~}$ |  |  |  |  |  |  |

## Land Rental Values ??? In Tight Margins

- Feasible ? "What is the farmer able to pay"
- Equitable ? "Good deal for both parties."


## Gossip dies when it hits a wise person's ears.

- Market Value ? "What the Neighbor is willing to pay."


## Split Crop Land Into 3 Parts

- 1/3 High Profit: High Productivity, Consistent, Correct Scale
- 1/3 Medium Profit: Medium Productivity, Some Consistency, Location or Scale
- 1/3 Low Profit: Lower Productivity, Inconsistent, Poor Location or Scale
- Measure ROI .......... Not Just Yield!
- Change Program - OR- Remove "Low/No Profit" farms from the mix.


## Define What Growth Means to You.

- It's not always about more acres / head. Profit??
- 12,000 to 8,450 acres... now more profit than ever
- How much money are you leaving on the table?


12,000 acres net income 2 year average $\$ 35.00=\$ 420,000$
8450 acres net income 2 years average $\$ 72.00=\$ 608,400$ 3,500 less acres =\$188,400 More Net Income!

Measure and Control Growth!

## Fastest way to lower Production cost?

- Increase Yield - Manage Purchase Value - Use Services Opportunities
- Nitrogen and Potash key yield components (Multi Year)
- Fertility program - variable rates (Multi Year) i.e. Tile
- Hybrid selection, technology need, planting rate
- Fungicide decisions
- Risk Management
- Cost of Production
- Crop Insurance
- Marketing



## Two sides of the

## "Profit Equation"

## Save Money / Lower Cost

- VRT Save \$\$\$ Assuming \$843/ac.
- 2950 acres
- Seed Rate per ac. 36,700
- Seed cost/acre \$129.90
- VRT saved 3\% on seed
- Savings \$4.36 \$12,863.43 1.2\% + ROI
- N P K cost/acre \$151.00
- Assuming 3\% improvement on N P \& K
- Total \$5.11/Ac \$15,084.78 1.4\% + ROI
- Cost Savings Per Year = \$27,948.21
- The gift that keeps on giving! "Repeatable"
- 10 year Value $\$ 318,000$


## Increase Yield / Profit

| Margin Enhancement Calculator |  |
| :--- | :---: |
| Grain Price | $\$ 4.00$ |
| Investment Cost $\ldots .$. per/acre | $\$ 11.00$ |
| Yield Enhancement... Bu. per/acre | 5.0 |
| Total acres to measure | $2,950.00$ |
| Total Bu. Improvement | 14,750 |
| $\#$ | 10 |


|  |  |  |
| :--- | :---: | :---: |
| Total Investment | $\$ 32,450.00$ |  |
| Total Value Enhancement | $\$ 59,000.00$ |  |
| Total Net \$\$ Improvement | $\$ 26,550.00$ |  |
| Per Acre Improvement | $\$ 9.00$ |  |
| Bu. Needed to cover cost | 2.75 | $7.0 \%$ |
| Total Value over Time | $\$ 265,500.00$ | $\$ 366,826.69$ |

How Yield Effects C-O-P

## Producer C-O-P Range

$\$ 2.96$ to $\$ 5.14$ per Bu. Difference $=\mathbf{\$ 2 . 1 8}$

- Yield Cost per Bu.
$180 / \mathrm{Bu} .=\$ 4.64$
$200 /$ Bu. = \$ 4.24 TARGET
$160 / \mathrm{Bu} .=\$ 5.14$
$140 / \mathrm{Bu} .=\$ 5.78$

How Yield Effects C-O-P \$605/ac.

## Producer C-O-P Range

$\$ 7.91$ to $\$ 14.02$ per Bu. Difference $\$ 6.11$

- Yield Cost per Bu.
$60 /$ Bu. $=\$ 10.10$
$70 / \mathrm{Bu} .=\$ 8.71$
$50 / \mathrm{Bu} .=\$ 12.04$
$40 / \mathrm{Bu} .=\$ 14.97$


## Make Decisions on Value

- The Check Amount is Top of Mind
- Considerations:
- Bushels needed to cover costs
- Cost per bushel
- As a percent of cost
- Understand value
- Yield is the key to long term Profit!



## Profit Margin is the Bottom Line!!

| Field / Farm Name | Total Farm Acres |  | Corn Acres | Crop Type |
| :---: | :---: | :---: | :---: | :---: |
| Joe Corn Farmer AVG. | 2400 |  | 800 | Corn |


| Crop Expenses | Cost Per/ Bu. | \% of Margin | Cost Per Acre | BU. | Total Cost | \% Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Land | \$1.16 | 3.9\% | \$215.00 | 50.0 | \$172,000.00 | 28.1\% |
| Tax | \$0.00 | 3.9\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Return to Management | \$0.00 | 3.9\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Services | \$0.06 | 3.9\% | \$11.00 | 2.6 | \$8,800.00 | 1.4\% |
| Interest (Operating) | \$0.00 | 3.9\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Insurance | \$0.10 | 3.9\% | \$19.00 | 4.4 | \$15,200.00 | 2.5\% |
| Seeds | \$0.62 | 3.9\% | \$115.00 | 26.7 | \$92,000.00 | 15.0\% |
| Fertilizer + Lime | \$0.30 | 3.9\% | \$55.20 | 12.8 | \$44,160.00 | 7.2\% |
| Nitrogen | \$0.49 | 3.9\% | \$90.00 | 20.9 | \$72,000.00 | 11.8\% |


| Chemicals - | per/bu. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$0.18 | Herbicides | 3.9\% | \$34.00 | 7.9 | \$27,200.00 | 4.4\% |
|  | \$0.00 | Insecticides/ Fungicide | 3.9\% |  | 0.0 | \$0.00 | 0.0\% |
|  | \$0.00 | Custom Application | 3.9\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| \$0.18 Totals |  |  |  | \$34.00 | 7.9 | \$27,200.00 | 4.4\% |


| Field Operations |  | Click Here |  | BU. Needed |  | \% Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chisel / Ripper |  | 3.9\% | \$25.78 | 6.0 | \$20,624.00 | 3.4\% |
| Nitrogen Application |  | 3.9\% | \$13.56 | 3.2 | \$10,848.00 | 1.8\% |
| Field Cultivation |  | 3.9\% | \$17.30 | 4.0 | \$13,840.00 | 2.3\% |
| Planter |  | 3.9\% | \$22.21 | 5.2 | \$17,768.00 | 2.9\% |
| Drill |  | 3.9\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Sprayer |  | 3.9\% | \$13.00 | 3.0 | \$10,400.00 | 1.7\% |
| Combine |  | 3.9\% | \$58.80 | 13.7 | \$47,040.00 | 7.7\% |
| Total Machine Value |  |  | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Totals | \$0.81 |  | \$150.65 | 35.0 | \$120,520.00 | 19.7\% |


| Grain Handling Expenses |  | Per / Acre | Cost Per Bushel |  |  | \% Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hauling |  | \$44.40 | \$0.24 | 10.3 | \$35,520.00 | 5.8\% |
| Dryer |  | \$22.20 | \$0.12 | 5.2 | \$17,760.00 | 2.9\% |
| Storage |  | \$9.25 | \$0.05 | 2.2 | \$7,400.00 | 1.2\% |
| Totals |  |  | \$75.85 | per acre | \$60,680.00 | 9.9\% |
| Total Expenses | \$4.14 |  | \$765.70 |  | \$612,560.00 | 100.0\% |
|  | Cost / Per/Bu. |  | tal Variable xpense |  | \$431,760.00 |  |


| Yield / Price | Margin Totals | Farm Totals |  |
| :---: | :---: | :---: | :---: |
| Total Bushels Harvested |  | 148,000 bushels |  |
| Yield per acre |  | 185 bushels / acre |  |
| Market Price | 3.9\% | \$4.30 per bushel |  |
| Government Payment |  | \$0.00 | \$0.00/acre |
| Other Income |  | \$0.00 | \$0.00/acre |
| Average Selling Price |  | \$4.30 | bushel |


| Economic Results | Farm Totals |  |
| :---: | :---: | :---: |
| Expenses | Bu. needed- Cover Cost | \$612,560.00 Cost / Total |
| Per Acre | 178.1 | \$765.70 Cost / Acre |
| Per Bushel |  | \$4.14 Cost of Production/Bu |
| Total Income |  | \$636,400.00 Income / Total |
| Per Acre per Bushel |  | $\$ 795.50$ Income / Acre $\$ 4.30$ Income / Bu. |
| Income after Insurance Indemnity |  |  |
| Gross Profit | \$23,840.00 | \$23,840.00 Profit / Total |
| Per Acre | MARGIN -- ROI | \$29.80 Profit / Acre |
| Per Bushel | 3.9\% | \$0.16 Profit / Bu. |

## What Are Lenders Concerned About?

Accuracy Considerations.... Things are changing!

## Top Ten List

1. Growing LOC / Prin. \& Int. Payments - Fixed Costs up / Less \$
2. Cash Flow / Working Capital - Projected Vs. Actual - CASH is KING
3. Bank Examiners FDIC - Outside concern "Land Bubble"
4. Balance Sheet Inventory - Volume \& Value ??
5. Balance Sheet Consistency - Land \& Equipment Values
6. Global / Outside Debt - Personal Debt
7. Interest Rates - LOC \& Long Term
8. Farm Efficiency - Land vs Equipment / Labor annual cost

9. Risk Management Plans - Transition, Insurance, People
10. Business Structure - Trends, Sophistication, Stability

Market Value Balance Sheet ....
Do this every year!!

| TOTALS | ASSETS | \% CHANGE | LIABILITIES | \% CHANGE | EQUITY | \% CHANGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2002 | \$3,461,500 |  | \$1,588,256 |  | \$1,873,244 |  |
| 2003 | \$3,407,241 | -1.6\% | \$1,664,912 | 4.8\% | \$1,742,329 | -7.0\% |
| 2004 | \$3,607,884 | 5.9\% | \$1,789,831 | 7.5\% | \$1,818,053 | 4.3\% |
| 2005 | \$3,751,015 | 4.0\% | \$1,908,762 | 6.6\% | \$1,842,253 | 1.3\% |
| 2006 | \$3,959,729 | 5.6\% | \$1,646,592 | -13.7\% | \$2,313,137 | 25.6\% |
| 2007 | \$4,854,541 | 22.6\% | \$1,886,018 | 14.5\% | \$2,968,523 | 28.3\% |
| 2008 | \$5,226,610 | 7.7\% | \$2,049,006 | 8.6\% | \$3,177,603 | 7.0\% |
| 2009 | \$5,922,722 | 13.3\% | \$2,273,193 | 10.9\% | \$3,649,529 | 14.9\% |
| 2010 | \$6,366,744 | 7.5\% | \$2,443,728 | 7.5\% | \$3,923,015 | 7.5\% |
| 2011 | \$7,039,715 | 10.6\% | \$3,135,324 | 28.3\% | \$3,904,391 | -0.5\% |
| 2012 | \$7,863,996 | 11.7\% | \$3,414,206 | 8.9\% | \$4,449,789 | 14.0\% |
| 2013 | \$8,474,703 | 7.8\% | \$3,573,202 | 4.7\% | \$4,901,501 | 10.2\% |
| 2014 | \$9,342,755 | 10.2\% | \$4,102,306 | 14.8\% | \$5,240,449 | 6.9\% |



## Equipment Utilization Efficiency

Understanding your costs and the value


## Equipment ...... $2^{\text {nd }}$ Largest Line Item

| Field Operations | Click Here |  |  |  | \% Cost |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ripper | 3.78\% | \$25.78 | 6.4 | \$20,624.00 | 3.3\% |
| Nitrogen Application | 3.78\% | \$13.56 | 3.4 | \$10,848.00 | 1.8\% |
| Field Cultivation | 3.78\% | \$17.30 | 4.3 | \$13,840.00 | 2.2\% |
| Planter | 3.78\% | \$22.21 | 5.6 | \$17,768.00 | 2.9\% |
| Drill | 3.78\% |  | 0.0 | \$0.00 | 0.0\% |
| Sprayer | 3.78\% | \$13.00 | 3.3 | \$10,400.00 | 1.7\% |
| Zone Management | 3.78\% | \$18.00 | 4.5 | \$14,400.00 | 2.3\% |
|  | 3.78\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Other | 3.78\% |  | 0.0 | \$0.00 | 0.0\% |
| Combine | 3.78\% | \$58.80 | 14.7 | \$47,040.00 | 7.6\% |
| Other | 3.78\% | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Total Machine Value |  | \$0.00 | 0.0 | \$0.00 | 0.0\% |
| Totals | \$0.84 | \$168.65 | 42.2 | \$134,920.00 | 21.9\% |

## Know "Your Own" Equipment Cost

This rate schedule is intended only as a guide. Actual custom rates may vary according to availability of machinery in a given area, timeliness, operator skill, field size and shape, crop conditions, and the performance characteristics of the machine being used.

Averages are not good enough!!

## Equipment Cost Calculations?

| Machine Cost Analysis Tool |  |
| :---: | :---: |
| Machine Titles | JD 8335R JD 1770NT |
| Implement Value | \$130,000 |
| $\%$ of use in this operation | 100\% |
| Tractor Value | \$215,000 |
| $\%$ of use in this operation | 40\% |
| Pass Title | Planting corn \& soybeans |
| Other Expenses - Ins./ Logistics | \$1,200.00 |
| Avg. Daily hrs. "total per/day" | 10.0 |
| Labor Cost per/hr. | \$20.00 |
| Fuel Cost per/gal. | \$3.57 |
| Fuel consumption per/hr. Gal. | 9.00 |
| Fuel consumption per/ac. Gal. | 0.30 |
| Interest, Depreciation, Repairs | 25\% |
| Total Annual Acres this operation. | 2,950.0 |



Total Equipment Cost Trends

|  | Acres | \% Increase | Market Value | Invest./Ac. | 25\% Owner Cost | \% increase | 5 Year Increase 10 Year Increase |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | 1670 |  | \$877,243 | \$225.30 | \$131.32 |  |  |  |
| 2006 | 1670 | 0.0\% | \$958,623 | \$574.03 | \$143.51 | 9.3\% |  |  |
| 2007 | 2110 | 26.3\% | \$1,238,564 | \$587,00 | \$146.75 | 29.2\% |  |  |
| 2008 | 2110 | 0.0\% | \$1,312,789 | \$622.17 | \$155.54 | 6.0\% |  |  |
| 2009 | 2332 | 10.5\% | \$1,475,970 | \$632.92 | \$158.23 | 12.4\% | 68.3\% |  |
| 2010 | 2643 | 13.3\% | \$1,670,203 | \$631.93 | \$157.98 | 13.2\% |  |  |
| 2011 | 2877 | 8.9\% | \$1,887,453 | \$656.05 | \$164.01 | 13.0\% |  |  |
| 2012 | 3007 | 4.5\% | \$2,135,638 | \$710.22 | \$177.56 | 13.1\% |  |  |
| 2013 | 3344 | 11.2\% | \$2,295,428 | \$686.43 | \$171.61 | 7.5\% |  |  |
| 2014 | 3344 | 0.0\% | \$2,489,845 | \$744.57 | \$186.14 | 8.5\% | 68.7\% | 183.8\% |
|  | 100.2\% |  | Land\% Increase |  |  |  | 5 Year | 10 year |

## Land \& Equipment \% Increase Trends



| Total Acres <br> Machine / Hr. <br> Fuel / Gal. <br> Labor / HR. | 2211 Tractor Cost/Productivity |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$65 On |  | Only = Time, Fuel, Labor |  |  |  |  |
|  | \$3.40 |  | Without: | Interest, depreciation, Repair |  |  |  |
|  | \$20.00 |  |  |  |  |  |  |
|  | Productivity Tracking |  |  | Totals |  |  |  |
| Machine Code | Totals | Idle | Work | Transport | Planted/Ac. | Ac/hr. |  |
| JD 8335R C HOURS | 146.5 | 56.5 | 82 | 8 | 2211 | 15.1 |  |
| Machine Cost/Hour | \$9,522.50 | \$3,672.50 | \$5,330.00 | \$520.00 |  |  |  |
| Productivity | 100\% | 39\% | 56\% | 5\% |  |  |  |
| Fuel Consumption | 725.5 | 70.5 | 581.1 | 73.9 |  |  |  |
| Fuel / Per Hr. | 5.0 | 1.2 | 7.1 | 9.2 |  |  |  |
| Fuel Cost | \$2,466.70 | \$239.70 | \$1,975.74 | \$251.26 |  |  |  |
| Labor Cost | \$2,930.00 | \$1,130.00 | \$1,640.00 | \$160.00 |  |  |  |
| Logistical Cost | \$1,780.96 | \$1,369.70 |  | \$411.26 | \$0.81 | Per / Ac. |  |
| Total Cost/ Fuel Labor | \$5,396.70 | \$1,369.70 | \$3,615.74 | \$411.26 | \$2.44 | Per / Ac. | AGIEW SOUTIONS |
| Total Cost/ Acre ALL \$ | \$14,919.20 | \$2,739.40 | \$7,231.48 | \$822.52 | \$6.75 | Per / Ac. Total |  |

## Decision Example on <br> "Value"

- Purchase $75 \% 80 \%$ or $85 \%$

8,500 acres

- 75\% \$76,000 Premium Cost
- 85\% \$204,000 Premium Cost Increased cost \$128,000 OR + \$.08/Bu. more
- APH 196
- Final Yield = 186
- Purchased 75\% Optional Units
- Indemnity Payment = \$52,000 for 75\% Coverage = Net \$-24,000
- Indemnity Payment = \$620,000 for 85\% Coverage = Net \$492,000


## Prioritize to Survive

- Business Structure Review. Know Where the Profit is Coming From. (Profit Center / Zone)
- Consider Networking Options.
- Know your Costs Per/ Bu. on "Every Expense." Not Just the Check Amount.
- Control "Return to Management" Expenses.
- Market Value Balance Sheet with Trends Analysis. "Earned Equity"
- Do What You Do Well. Let someone else do the other stuff.
- Protect Yourself from Risk Insurance.
- Marketing. Keep it Simple and be Disciplined.
- Protect Working Capital. Without Impacting Productivity.


## Set Goals

- Where have we been?
- Where are we now?
- Where do we want to be?

1. Be Specific.
2. Assign Responsibility
3. Timeline / Deadline

- What could get in our way?
- What do we need? (Tools, Supplies)
- Set 2-3 not 10
- Do one thing at a time.



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