

GETTING A GRIP ON AGRICULTURE AND THE ECONOMY

Dr. David M. Kohl

Professor Emeritus, Agricultural and Applied Economics
Member of Academic Hall of Fame, College of Agriculture & Life Sciences
Virginia Tech, Blacksburg, VA



(540) 961-2094 (Alicia Morris) | (540) 719-0752 (Angela Meadows) | sullylab@vt.edu

January 17, 2020

Macro Clinic Video Blog: www.compeer.com/education

Road Warrior of Agriculture: www.cornandsoybeandigest.com

Ag Globe Trotter: www.northwestfcs.com

Dave's GPS & Dashboard Indicators: www.farmermac.com

Walking the Line-“Fresh Start 2020”

Five Positives in Agriculture

- low, stable interest rates
- stable energy cost
- market volatility, proactive base hits
- land value stability & resilience
- accelerated generational transfer –
 - young farmers, ranchers and green shoots

Walking the Line-“Fresh Start 2020”

Five Challenges in Agriculture

- dependence on government income
- loss of international markets/market competitiveness
- global political posturing/change
- alternative agriculture, consumer demand shifts
- consolidation backlash

Perspectives on the New Decade

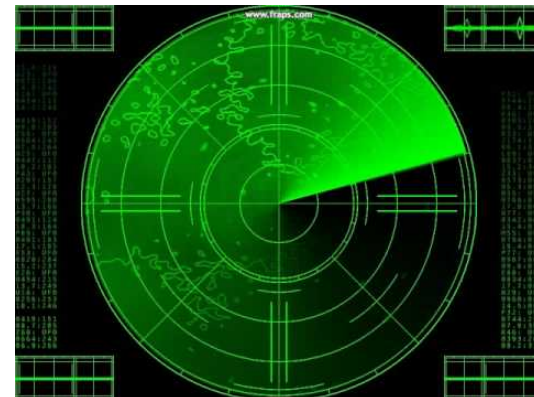
- more change in the next decade than the last 70 years
 - technology, consumers & management
- economic & financial volatility
 - friend: proactive manager
 - foe: reactive manager
- business IQ is the common denominator for success
- decade of transitions
 - capital, human assets & business culture shifts
- more opportunity for success or failure depending on your mindset, capitalizing and controlling your destiny
- balance “high tech” with “high touch”
 - high tech- biotech, engineering, big data
 - high touch- in the moment, interpersonal skills, interdependent

Eras & Cycles: Fork in the Road

<u>Decade</u>	<u>Era of Economics</u>
1950's - 1960's	Post War, Go-Go Production Era
1970's	Go-Go Economics Era
1980's	No Go Economics Era
1990's	Slow Go Economics Era
2000's	Go-Go Super Cycle Era
Teen Years	Slow & No Go Economics Era
Adult Years	Fork in the Road Management & Economics Era

Economic Radar Screen- Globalization vs. Decoupling

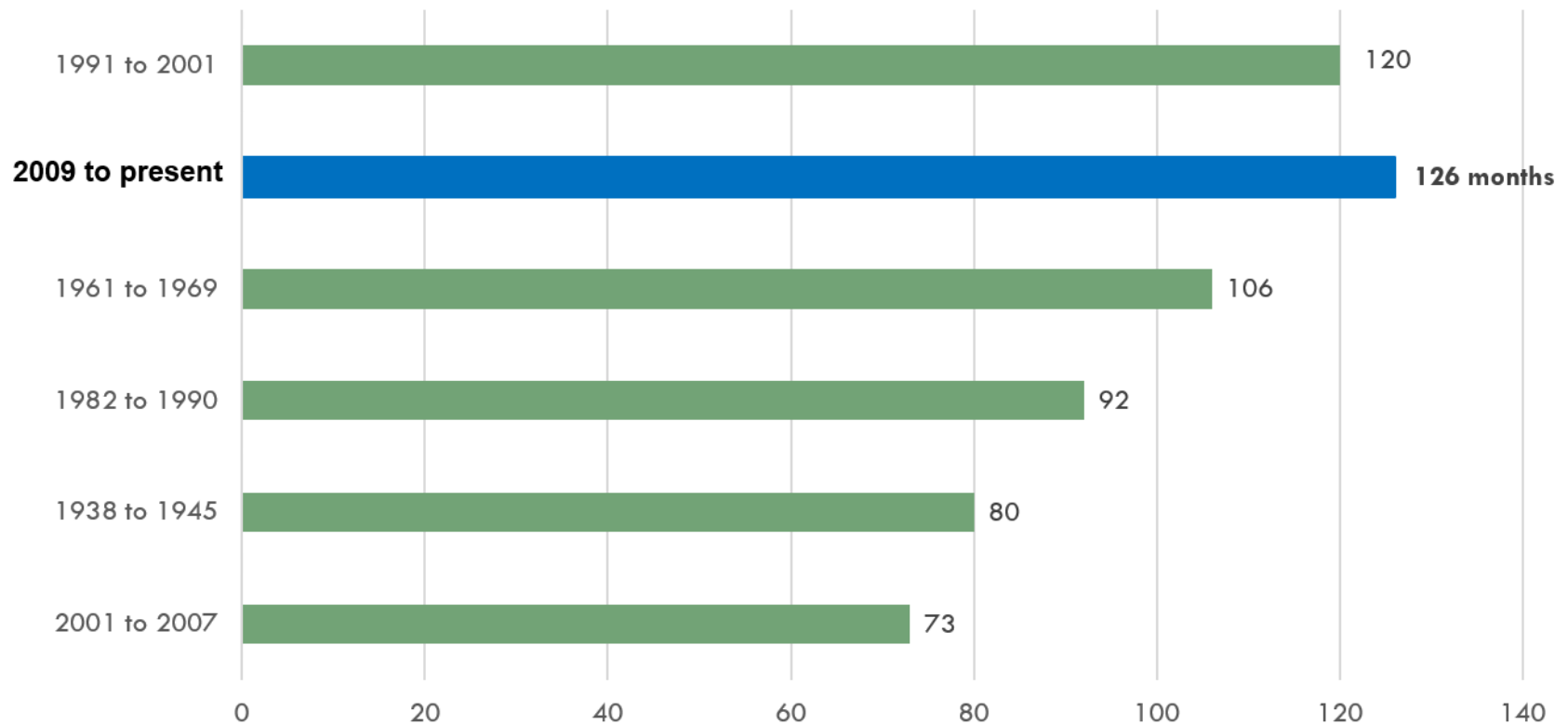
- international trade
 - USMCA
 - China's Belt & Road Initiative
- synchronized global economic moderation
 - China- slowest growth rate in 28 years
 - Japan- negative growth rate
 - Germany – negative growth rate
 - Central Bank's stimulus in China
 - high debt levels in urban real estate in China
- political uncertainty
 - Brazil
 - Venezuela
 - Mexico
 - Argentina
 - Germany, Britain & Euro Sector
 - U.S.



By Mid-June, Longest Economic Expansion in the U.S.

Longest economic expansions in modern U.S. history

(As of January 2020)



Source: NBER, Economic Cycle Research Institute (Note: current expansion still in progress)

Next Recession View Points

- signs to watch for
- timing
- causes
- length and depth
- impact on agriculture
- how to prepare

Top Five Economic Indicators

<u>Indicator</u>	<u>Growth</u>	<u>Neutral</u>	<u>Recession</u>
LEI/Diffusion Index	Positive	Flat/Decline	Decline 0.3% for 3 consecutive months AND >1% overall
Consumer Sentiment	>90	80-90	<80
Housing Starts	1.5 Million	1.0-1.5 Million	<1.0 Million
PMI	>50	41.7-50	<41.7
Stock Market	10% increase	Flat	>30% decrease

Mega Trends 2020-2030

- alternative products - meat & milk continue to grow/mature
- production increases worldwide
 - technology
 - new land/resources in use
 - weather
- loss of export market share
- land value commodity
 - price disconnect
- NGO's bigness under attack
- government supports continue
- energy and oil prices stability
- young farmers/ranchers/women/minorities/veterans
- urban agriculture
- other

Median Net Farm Income

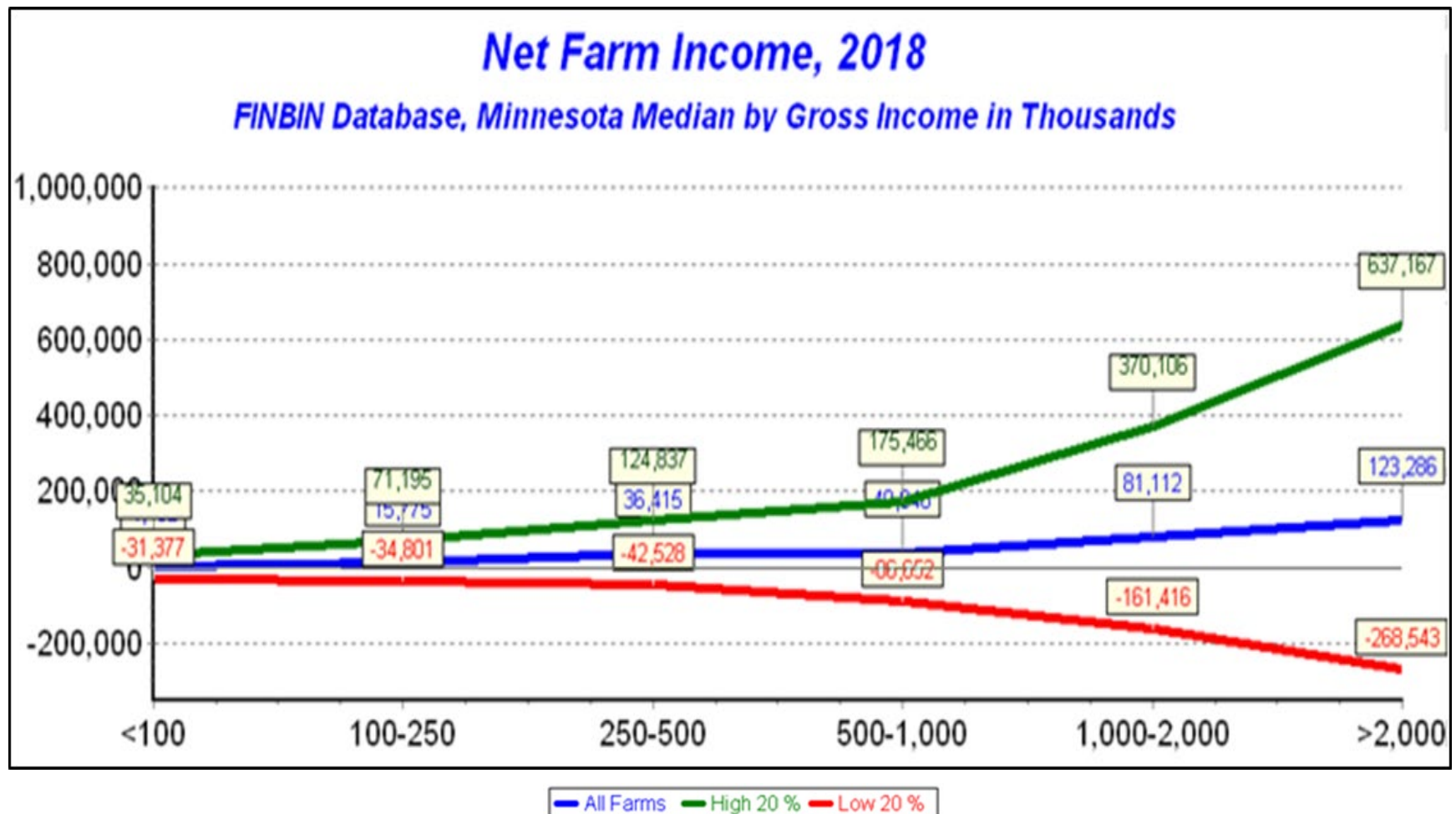
Median Net Farm Income

FINBIN Database, Minnesota



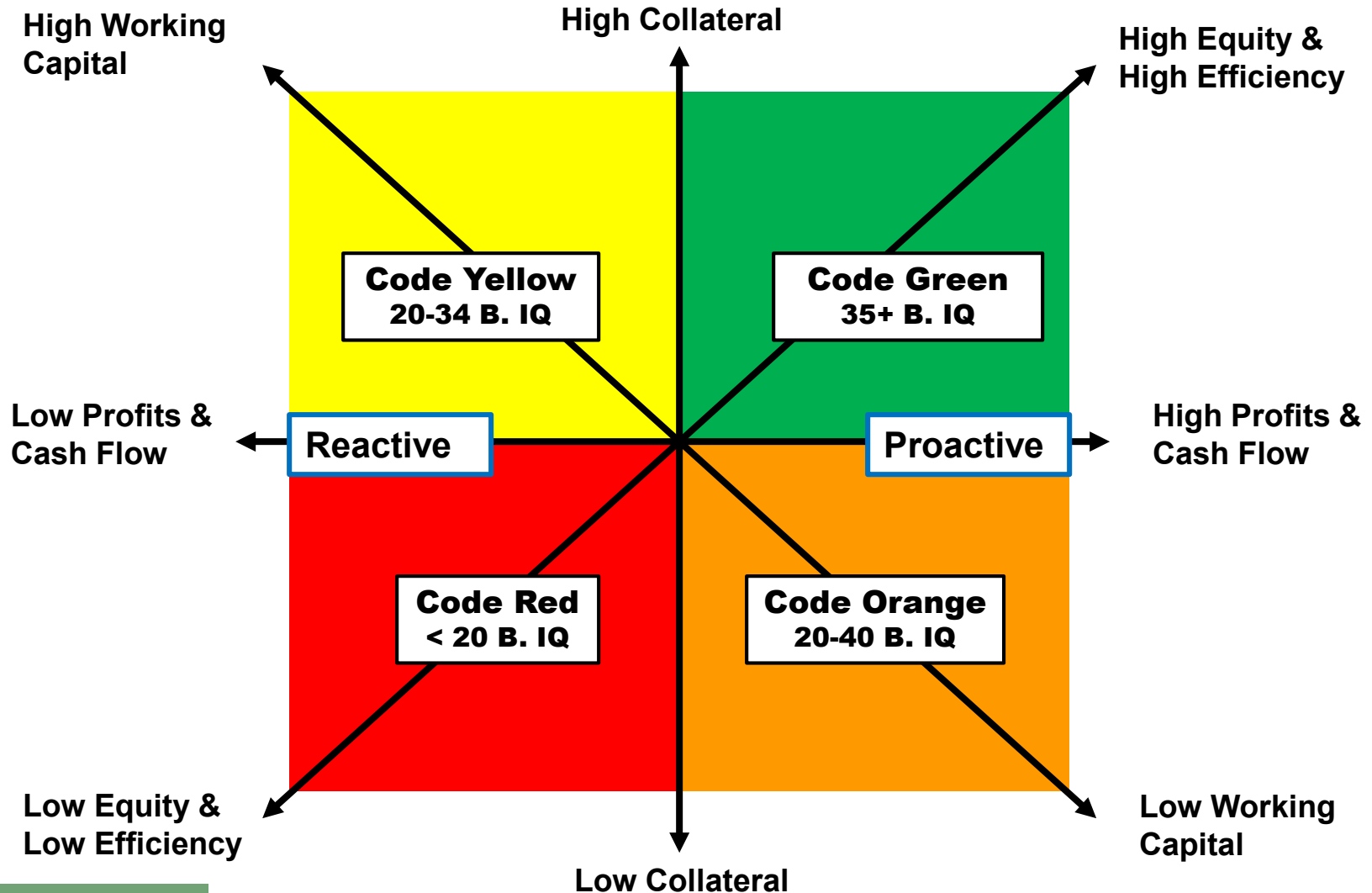
Data Sources: Minnesota Farm Business Management Education, Minnesota State Southwestern Minnesota Farm Business Management Associations, U of M Copyright 2019, Center For Farm Financial Management, University of Minnesota

Net Farm Income, 2018



Data Sources: Minnesota Farm Business Management Education
 SW Minnesota Farm Business Management Association, U of M
 Copyright 2018, Center For Farm Financial Management, University of Minnesota

Business IQ: Spectrum of Performance Possibilities



Paddling - Upper Right Quad.

Code Green - Disciplined Growth

- strong business IQ score of 35+
- proactive manager
- > 60% equity
- term debt to EBITDA <2.5:1
- operating expense/revenue ratio (excluding interest and depreciation) <75%
- working capital to expenses >30%

Treading Water- Upper Left Quad.

Code Yellow - Limited Growth

- moderate business IQ score of 20-34
- 70% equity
- working capital to expenses >20%
- operating expenses/revenue ratio (excluding interest and depreciation) >80%
- competitive issues in industry

Paddling or Bailing Water – Lower Rt.

Code Orange - Excessive Growth

Paddling towards **Green**

- business IQ score >38
- ROA averages 6%
- <50% equity
- modest family living expenses
- dimensional revenue streams
- earns and turns

Bailing towards **Red**

- business IQ score of <28
- profit issues- ROA averages 1%
- <50% equity
- high living costs
- specialized revenue streams
- lack earns & turns

Bailing Water -Lower Left Quad.

Code Red- Partial or Total Liquidation

- poor business IQ score of <20
- reactive manager
- <40% equity
- working capital is negative
- operating expense to revenue over 90%
- excessive family living expenses
- victims & “know-it-all”

2020 Winter Renewal Season Dashboard

<u>Criteria</u>	<u>Calculation</u>	<u>Vulnerable</u>	<u>Resilient</u>	<u>Agile</u>	<u>Customer 3 Year Average</u>
Operating Expenses/Revenue	<u>Operating Expenses</u> ¹ Total Farm Revenue	>85%	75-85%	<75%	
Term Debt/EBITDA	<u>Total Term Debt (non-operating)</u> EBITDA ²	>6:1	3:1-6:1	<3:1	
Working Capital/Expenses	<u>Current Assets - Current Liabilities</u> Total Farm Expenses	<10%	10-33%	>33%	
Coverage Ratio	(Net Farm Income + Interest + Depreciation + Total Non-Farm Income – Income Tax Expenses- Family Living Withdrawals) / Total Annual Principal & Interest Payments on Term Debts & Capital Leases	<110%	110-150%	>150%	

¹Operating Expenses Excluding Interest and Depreciation

² EBITDA = Net Farm Income + Interest + Depreciation

Financial Trip Points

- split lines of credit
 - > 10 lines
- term debt/EBITDA 6 to 1 or more
 - 3 to 5 years earnings on average
- burn rate on core equity <2.0 years
- operating expense/revenue ratio excluding interest & depreciation above 95% (three year average) with no non-farm income
- victim, know it all attitude concerning business improvement

Producers: Advice Given But Least Listened to or Followed in Practice

- working capital to expenses greater than 25% with 20% of current assets in cash- “dry powder”
- developing, following & monitoring projected cash flow to actual results
- drop dead exercise in transition management
- written goals- “the six degrees”
- hire for attitude, train for aptitude
- indistractables- mental vs. physical health/hygiene
- separate business & personal living budgets
- develop a written business plan that is executed and monitored
- establish regular quarterly meetings with advisory team
- net work of people = financial and mental net worth

Lenders: Advice Given But Least Listened to or Followed in Practice

- most financial issues start outside of the numbers
- global family living cost concept
- credit scoring model is great tool but not the gospel
- trust but verify inventory, payables & other liabilities
- don't be a perfectionist on accruals, just ask questions
- fear of lender liability – advice vs. alternatives
- emotional drainer- “victim vs. know it all attitudes”
- growth and expansion- 25% rule
- indistractables
- lender cost cutting vs. investment in training

FARMER AC

Farm & Ranch Loan Purchase Solution

Products	Term	Amortization	Choice Reset Margin	Standard Rates	Choice Rates
5-year VRM	15 20	15 20		3.54%	3.19%
5-year VRM	25 30	25 30		3.55%	3.20%
7/1 ARM	15	15 25	3.25%	3.71%	3.58%
10/1 ARM	15	15 25	3.25%	3.94%	3.81%
10-year VRM	15 20	15 20		4.16%	3.81%
10-year VRM	25 30	25 30		4.22%	3.87%
15-year VRM	20	20		4.30%	3.95%
15-year VRM	25 30	25 30		4.39%	4.04%
7-year Fixed	7	15 25		3.72%	3.37%
10-year Fixed	10	10		4.02%	3.67%
15-year Fixed	15	15		4.05%	3.70%
15-year Fixed	15	25		4.34%	3.99%
20-year Fixed	20	20		4.24%	3.89%
25-year Fixed	25	25		4.39%	4.04%
30-year Fixed	30	30		4.51%	4.16%





Thank you!

800-879-3276

Opportunities@farmermac.com

