



Representative Farms Economic Outlook for the Preliminary 2021 FAPRI/AFPC Baseline

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Agricultural and Food Policy Center

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REPRESENTATIVE FARMS ECONOMIC OUTLOOK FOR THE PRELIMINARY 2021 FAPRI/AFPC BASELINE

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REPRESENTATIVE FARMS ECONOMIC OUTLOOK FOR THE PRELIMINARY 2021 FAPRI/AFPC BASELINE

The farm-level economic impacts of the FAPRI Preliminary 2021 Baseline on representative crop and livestock operations are projected in this report, assuming provisions of the 2018 Farm Bill are in effect and continue throughout the 2020-2025 study period. This iteration of the FAPRI Preliminary 2021 Baseline includes impacts of the U.S.-China Phase 1 trade deal along with current assumed impacts associated with the COVID-19 pandemic on agricultural markets. The current representative farm analysis output reflects an evaluation of ARC/PLC program elections for the farms given provisions of the 2018 Farm Bill. Producers are assumed to enroll in the program resulting in the highest ending cash reserves at the end of the projection period; as farm update meetings are completed, adjustments will be made to program elections (if necessary). Full Market Facilitation Program (MFP) payments for 2018 and 2019 were included in this analysis along with the Coronavirus Food Assistance Program (CFAP) payments for 2020 on eligible inventory/production/acres. The analysis was conducted using a whole farm simulation model developed by AFPC with necessary data sourced from:

- Producer panel cooperation to develop economic information to describe and simulate representative crop, livestock, and dairy farms, and
- Projected prices, policy variables, and input inflation rates from the Food and Agricultural Policy Research Institute (FAPRI) Preliminary 2021 Baseline.

The simulations incorporate historical risk faced by farmers for prices and production. This report presents the results of the Preliminary 2021 Baseline in a risk context using selected simulated probabilities and ranges for annual financial measures. The probability of a farm experiencing negative ending cash reserves and the probability of a farm losing real net worth are included as indicators of the cash flow and equity risks facing farms through the year 2025.

DEFINITIONS OF VARIABLES IN THE SUMMARY TABLES

- Overall Financial Position, 2020-2025 -- As a means of summarizing the representative farms' economic efficiencies, liquidity positions, and solvency positions, AFPC classifies each farm as being in a good (green), marginal (yellow) or poor (red) position. AFPC defines a farm to be in a good financial position when it has less than a 25 percent chance each of a negative ending cash position and less than a 25 percent chance of losing real net worth through 2025. If the probabilities of these occurrences are between 25 and 50 percent, the farm is classified as marginal. Probabilities greater than 50 percent place the farm in a poor financial position.
- Receipts -- 2020-2025 average cash receipts from all farm related sources, including market sales, PLC/ARC payments, marketing loan gains/LDPs, crop insurance indemnities, and other receipts.
- **Payments** -- 2020-2025 average annual PLC or ARC payments and marketing loan gains/LDPs for crop farms along with MFP and CFAP payments.
- NCFI -- 2020-2025 average net cash farm income equals average total receipts minus average total cash expenses.
- Reserve 2025 -- equals total cash on hand at the end of year 2025. Ending cash equals beginning cash reserves plus net cash farm income and interest earned on cash reserves less

- principal payments, federal taxes (income and self-employment), state income taxes, family living withdrawals, and actual machinery replacement costs (not depreciation).
- **Net Worth 2025** -- equity equals total assets including land minus total debt from all sources and is reported at the end of 2025.
- **CRNW** -- annualized percentage change in the operator's real net worth from January 1, 2020 through December 31, 2025, after adjusting for inflation.

EXECUTIVE SUMMARY

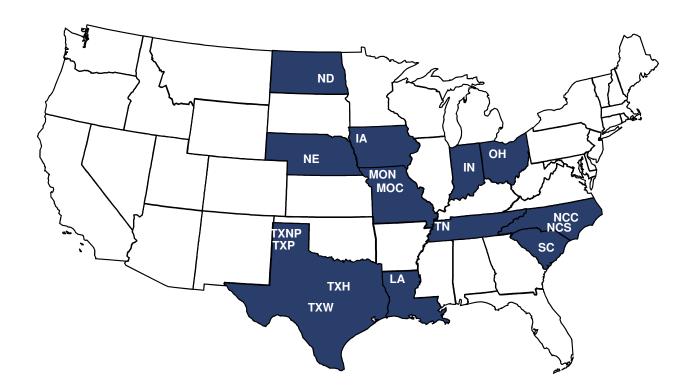
The Agricultural and Food Policy Center (AFPC) at Texas A&M University develops and maintains data to simulate 94 representative crop, dairy, and livestock operations in major production areas in 30 states. The chief purpose of this analysis is to project the economic viability of those farms by region and commodity for 2020 through 2025. The data necessary to simulate the economic activity of these operations are cultivated through ongoing cooperation with panels of agricultural producers in selected states. The Food and Agricultural Policy Research Institute (FAPRI) provides projected prices, policy variables, and input inflation rates in their Preliminary 2021 Baseline.

Under the Preliminary 2021 Baseline, 30 of the 64 crop farms are in good liquidity condition (less than a 25 percent chance of negative ending cash reserves by 2025). Fourteen crop farms have between a 25 percent and a 50 percent likelihood of negative ending cash reserves, and the remaining 20 crop farms have greater than a 50 percent chance of negative ending cash reserves. Additionally, 51 of the 64 crop farms are in a good equity position (less than a 25 percent chance of decreasing real net worth during the study period). Seven crop farms have between a 25 percent and 50 percent likelihood of losing real net worth, and six crop farms have greater than a 50 percent probability of decreasing real net worth by 2025. The following discussion provides an overall evaluation by commodity considering both liquidity and equity measures.

- FEEDGRAIN FARMS: Thirteen of the 25 feedgrain farms are in good overall financial condition. Ten farms are classified in marginal condition, and two are in poor condition.
- WHEAT FARMS: Six representative wheat farms are classified in good overall financial condition, three are in marginal condition, and two are in poor condition.
- COTTON FARMS: Eight of the 13 cotton farms are classified in good condition, four are in marginal condition, and one is in poor condition.
- RICE FARMS: Three of the 15 rice farms are projected to be in good financial condition. Six rice farms are projected to be in marginal condition; six are in poor condition.
- DAIRY FARMS: Thirteen of the 20 dairies are in good overall financial condition. One of the dairies is classified in marginal condition; six are in poor condition.
- BEEF CATTLE RANCHES: Five of the 10 cattle ranches are classified in good financial condition, four are projected to be in marginal condition, and one is in poor condition.

Representative Farm: Feed Grains

- Overall, thirteen feed grain farms are characterized as good, ten are marginal, and two are in poor condition.
- Five of the twenty-five farms will be under severe cash flow stress; two of these farms also have relatively high likelihoods (greater than a 25 percent chance) of losing real net worth.



Characteristics of Panel Farms Producing Feed Grains, 2019.

Characteristics of Pane	el Farms Producing	g Feed Grains	s, 2019.		
	Cropland	Assets	Debt/Asset	Gross Receipts	Feed Grains
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(acres)
IAG1350	1,350	3,312.00	0.30	973.40	1,350
IAG3400	3,400	10,212.00	0.18	2,257.40	3,400
NEG2400	2,400	6,020.00	0.20	2,088.80	2,400
NEG4500	4,500	19,274.00	0.23	3,664.50	4,000
NDG3000	3,000	4,080.00	0.15	1,305.80	2,500
NDG9000	9,000	20,716.00	0.18	4,078.30	7,000
ING1000	1,000	3,307.00	0.19	651.30	1,000
ING3250	3,250	11,049.00	0.19	2,275.80	3,250
OHG700	700	3,307.00	0.19	359.40	385
OHG1500	1,500	4,204.00	0.17	739.00	506
MOCG2300	2,300	12,192.00	0.18	1,383.60	2,300
MOCG4200	4,200	17,725.00	0.17	2,454.20	4,200
MONG2300	2,300	12,838.00	0.18	1,540.50	2,250
LANG2500	2,500	3,810.00	0.21	1,866.40	1,625
TNG2500	2,500	5,086.00	0.18	1,499.30	2,500
TNG5000	5,000	11,535.00	0.16	3,186.90	5,000
NCSP2000	2,000	5,190.00	0.32	1,266.20	1,600
NCC2030	2,000	2,273.00	0.13	1,101.00	1,400
SCC2000	2,000	3,388.00	0.17	1,353.50	1,200
SCG3500	3,500	7,230.00	0.16	2,654.60	2,150
TXNP3450	3,450	8,209.00	0.16	2,577.90	1,554
TXNP10880	10,880	19,491.00	0.15	8,103.40	5,234
TXPG2500	2,500	5,846.00	0.20	1,794.30	1,183
TXHG3000	3,000	2,275.00	0.29	1,169.20	2,000
TXWG1600	1,600	1,736.00	0.17	578.40	1,100

Representative Farm: Feed Grains

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name	Overall	Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)
13/10/2	2020	2025	2020-2025	2020-2025
IAG1350			98-97	71-74
IAG3400			18-34	1-1
NEG2400			4-20	1-1
NEG4500			89-95	1-7
NDG3000			5-30	1-2
NDG9000			1-1	1-1
ING1000			2-4	1-1
ING3250			4-7	1-1
OHG700			6-41	1-1
OHG1500			1-1	1-1
MOCG2300			8-9	1-1
MOCG4200			1-1	1-1
MONG2300			34-48	1-1
LANG2500			23-47	5-10
TNG2500			13-34	1-1
TNG5000			1-3	1-1
NCSP2000			99-95	36-42
NCC2030			1-1	1-1
SCC2000			30-45	3-8
SCG3500			7-8	1-1
TXNP3450			1-1	1-1
TXNP10880			1-1	1-1
TXPG2500			11-19	1-1
TXHG3000			73-77	9-20
TXWG1600			43-90	7-21

¹ Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities:

<25

25-50

>50

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Feed Grains and Oilseeds

	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
IAG1350	1,046.94	44.74	115.20	(959.03)	1,929.99	(1.25)
IAG3400	2,413.70	95.52	597.64	362.41	9,574.79	3.96
NEG2400	2,275.11	92.12	510.01	665.22	5,878.97	5.09
NEG4500	3,937.94	138.42	557.49	(2,369.73)	14,805.49	1.70
NDG3000	1,351.69	57.70	315.88	233.96	3,798.46	3.21
NDG9000	4,278.23	175.69	1,451.09	4,444.94	21,659.53	5.92
ING1000	690.85	27.93	268.16	334.38	3,181.74	4.60
ING3250	2,404.04	82.46	658.68	1,024.47	10,547.17	4.44
OHG700	473.68	11.63	138.72	28.35	2,730.31	1.96
OHG1500	1,045.88	40.29	436.28	1,259.89	4,528.95	6.16
MOCG2300	1,443.46	50.02	599.91	903.86	11,395.36	3.84
MOCG4200	2,618.29	82.85	1,175.83	3,044.11	17,917.90	5.05
MONG2300	1,575.42	56.63	604.11	23.07	12,099.70	4.04
LANG2500	1,927.52	163.75	283.31	(34.45)	3,330.12	3.35
TNG2500	1,549.77	56.76	350.18	169.80	4,887.18	4.38
TNG5000	3,334.62	107.94	925.66	2,130.61	12,378.12	5.90
NCSP2000	1,606.32	100.40	229.32	(1,145.24)	3,305.47	0.72
NCC2030	1,213.01	101.13	450.40	1,208.45	3,270.01	10.67
SCC2000	1,525.72	109.17	262.17	29.29	3,021.45	2.85
SCG3500	3,247.75	209.63	641.60	1,091.55	7,317.33	4.97
TXNP3450	2,788.96	172.16	790.97	1,973.86	9,447.87	7.13
TXNP10880	8,710.32	377.33	1,937.36	6,932.58	23,104.88	7.54
TXPG2500	1,999.50	159.10	431.73	552.12	5,726.31	5.28
TXHG3000	1,174.54	89.35	213.19	(367.22)	1,812.31	3.68
TXWG1600	622.31	62.57	108.29	(402.23)	1,408.27	1.39

¹ Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000)

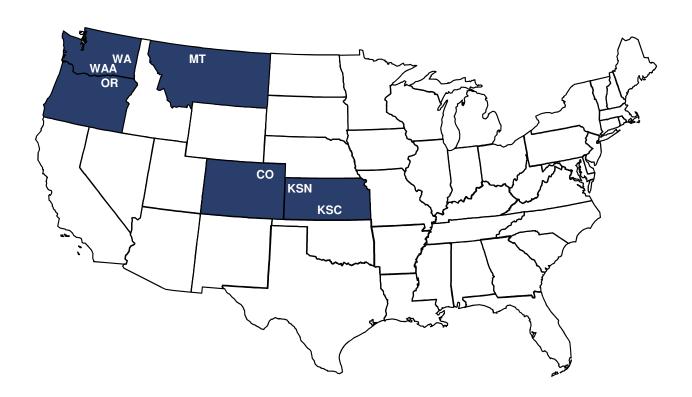
⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000)

⁵ Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

Representative Farm: Wheat

- Six wheat farms are projected to be in good overall financial condition, three are in marginal condition, and two are in poor condition.
- Four of the eleven wheat farms are expected to feel significant liquidity pressure over the period; two of these four farms also have a greater than 50 percent chance of losing wealth.



Characteristics of Panel Farms Producing Wheat, 2019.

	Cropland	Assets	Debt/Asset	Gross Receipts	Wheat
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(acres)
WAW2800	2,800	3,269.00	0.15	1,227.90	1,840
WAW10000	10,000	11,179.00	0.15	4,198.10	5,800
WAAW5500	5,500	2,417.00	0.24	605.90	2,600
ORW4500	4,500	1,961.00	0.20	451.10	2,250
MTW8000	8,000	7,546.00	0.15	1,441.50	3,840
KSCW2000	2,000	2,788.00	0.13	846.00	800
KSCW5300	5,300	6,294.00	0.16	2,134.20	2,385
KSNW4000	4,000	4,414.00	0.19	872.40	1,200
KSNW7000	7,000	8,429.00	0.20	1,895.60	1,700
COW3000	3,000	4,366.00	0.18	385.00	1,013
COW6000	6,000	6,771.00	0.23	834.20	2,000

Representative Farm: Wheat

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name		Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)
6/3/2	2020	2025	2020-2025	2020-2025
WAW2800			3-2	1-1
WAW10000			4-18	1-1
WAAW5500			93-99	61-87
ORW4500			69-83	10-9
MTW8000			1-1	1-1
KSCW2000			1-1	1-1
KSCW5300			1-1	1-1
KSNW4000			22-28	1-1
KSNW7000			11-14	1-1
COW3000			72-83	1-1
COW6000			99-99	16-76

1 Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities:

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Wheat

	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
WAW2800	1,377.59	175.09	344.98	747.26	3,583.84	6.13
WAW10000	4,507.23	403.77	811.24	1,584.35	11,647.34	5.25
WAAW5500	689.10	82.03	45.70	(1,017.94)	1,176.24	(5.55)
ORW4500	519.33	62.91	162.83	(233.25)	1,607.10	2.08
MTW8000	1,614.36	192.29	844.31	2,679.51	9,016.21	7.68
KSCW2000	924.25	46.27	338.46	777.86	3,173.40	6.38
KSCW5300	2,271.12	113.80	797.14	2,537.87	7,570.78	7.97
KSNW4000	957.66	70.24	302.57	187.39	4,058.10	3.91
KSNW7000	2,061.47	110.07	586.42	921.80	8,039.54	4.65
COW3000	435.41	32.34	172.45	(171.27)	3,926.58	3.22
COW6000	943.73	68.83	78.04	(2,560.94)	4,284.15	(1.66)

¹ Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000)

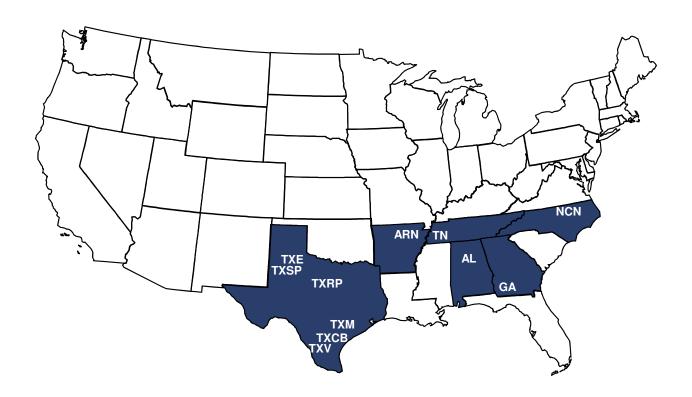
⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000)

⁵ Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

Representative Farm: Cotton

- Eight of the thirteen cotton farms are characterized in good overall financial condition over the 2020-2025 projection period, four are in marginal condition, and one is in poor condition.
- Three representative cotton farms are projected to experience severe cash flow problems (having a greater than 50 percent chance of a cash flow deficit); only one of these farms is expected to have a greater than 50 percent chance of losing real equity over the period.



Characteristics of Panel Farms Producing Cotton, 2019.

	Cropland	Assets	Debt/Asset	Gross Receipts	Cotton
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(acres)
TXSP4500	4,500	2,662.00	0.17	2,237.60	4,380
TXEC5000	5,000	4,197.00	0.14	2,487.50	4,700
TXRP3000	3,000	1,762.00	0.45	701.50	1,800
TXMC2500	2,500	2,441.00	0.24	1,523.10	1,455
TXCB4000	4,000	3,255.00	0.20	2,607.70	2,000
TXCB10000	10,000	9,822.00	0.18	6,325.80	5,000
TXVC5500	5,500	7,432.00	0.18	3,461.60	2,550
ARNC5000	5,000	12,017.00	0.16	4,318.40	2,500
TNC3000	3,000	2,669.00	0.12	2,029.00	825
TNC4050	4,050	7,303.00	0.18	2,875.80	1,500
ALC3500	3,500	5,594.00	0.16	2,715.50	1,050
GAC2500	1,250	10,568.00	0.18	3,268.60	1,250
NCNP1600	1,600	3,917.00	0.25	1,285.70	640

Representative Farm: Cotton

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name	Overall	Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)
8/4/1	2020	2025	2020-2025	2020-2025
TXSP4500			15-42	7-14
TXEC5000			1-9	1-3
TXRP3000			90-96	68-73
TXMC2500			19-52	15-23
TXCB4000			1-32	1-13
TXCB10000			1-2	1-1
TXVC5500			1-1	1-1
ARNC5000			1-1	1-1
TNC3000			1-1	1-1
TNC4050			2-2	1-1
ALC3500			1-1	1-1
GAC2500			1-1	1-1
NCNP1600			92-98	1-20

1 Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities:

25-50

>50

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Cotton

	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
TXSP4500	2,277.08	199.11	408.61	151.16	2,716.86	5.40
TXEC5000	2,503.44	279.18	600.17	1,544.00	4,893.05	6.98
TXRP3000	743.01	70.59	65.07	(770.23)	717.23	(3.15)
TXMC2500	1,561.36	108.17	260.65	(27.68)	1,993.27	3.00
TXCB4000	2,220.83	173.69	316.06	366.44	2,990.31	4.23
TXCB10000	5,732.08	394.59	1,133.53	4,136.82	11,299.89	7.64
TXVC5500	3,793.14	272.92	793.53	2,444.12	8,442.71	7.31
ARNC5000	4,614.13	339.28	1,496.47	4,151.63	14,413.34	7.94
TNC3000	2,137.70	191.55	701.98	2,507.92	4,485.30	13.34
TNC4050	2,939.97	269.66	762.50	1,959.63	7,920.31	6.55
ALC3500	2,925.82	216.33	1,042.78	3,930.70	7,881.30	10.90
GAC2500	3,299.47	332.89	774.52	1,856.71	10,793.93	5.45
NCNP1600	1,237.09	139.64	155.41	(791.61)	2,733.83	0.48

¹ Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000)

⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000)

⁵ Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

Representative Farm: Rice

- Three of the fifteen representative rice farms are projected to be in good overall financial condition, six are in marginal condition, and six are in poor condition.
- Twelve of the rice farms are expected to face moderate to severe cash flow problems; eight of those farms also have a greater than 25 percent chance of declining real net worth.



Characteristics of Panel Farms Producing Rice, 2019.

	Cropland	Assets	Debt/Asset	Gross Receipts	Rice
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(acres)
CAR1200	1,200	4,014.00	0.13	1,849.60	1,200
CAR3000	3,000	14,572.00	0.20	5,099.80	3,000
CABR1000	1,000	6,105.00	0.18	1,645.20	1,000
CACR800	800	4,531.00	0.18	1,306.10	800
TXR1500	1,500	2,618.00	0.24	916.70	600
TXR3000	3,000	1,619.00	0.20	2,023.10	1,500
TXBR1800	1,800	1,107.00	0.11	1,162.70	600
TXER2500	2,500	1,108.00	0.06	2,254.20	1,250
LASR2000	2,000	2,850.00	0.19	1,414.90	1,000
ARMR6500	6,500	9,344.00	0.18	4,935.60	650
ARSR3240	3,240	5,868.00	0.16	2,653.30	1,458
ARWR2500	2,500	7,905.00	0.16	1,898.60	1,250
ARHR4000	4,000	9,197.00	0.16	3,225.70	2,640
MSDR5000	5,000	18,604.00	0.17	3,851.90	1,667
MOBR4000	4,000	9,958.00	0.20	2,591.00	1,320

Representative Farm: Rice

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name	Overall	Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)
3/6/6	2020	2025	2020-2025	2020-2025
CAR1200			1-5	1-1
CAR3000			31-86	7-25
CABR1000			9-47	1-1
CACR800			91-99	16-91
TXR1500			81-99	41-77
TXR3000			31-63	15-32
TXBR1800			16-49	18-30
TXER2500			19-35	37-33
LASR2000			20-69	20-36
ARMR6500			10-20	3-3
ARSR3240			10-26	5-7
ARWR2500			56-81	2-1
ARHR4000			30-89	17-44
MSDR5000			7-13	1-1
MOBR4000			31-79	1-5

¹ Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities: <25 >50

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Rice

raillis Pilliailly	Producing Rice					
	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
CAR1200	1,755.81	210.43	392.16	571.45	3,963.98	3.98
CAR3000	4,702.97	425.28	261.56	(2,110.59)	10,518.14	(0.05)
CABR1000	1,557.85	177.47	263.18	(19.76)	5,155.18	2.14
CACR800	1,238.12	146.81	(6.20)	(1,121.58)	2,810.02	(2.81)
TXR1500	877.97	69.64	70.68	(797.83)	1,453.13	(3.37)
TXR3000	1,926.67	123.94	203.19	(235.84)	1,167.32	(0.02)
TXBR1800	1,093.86	80.59	162.53	(12.76)	925.02	0.74
TXER2500	2,433.10	127.83	285.54	217.03	1,279.92	5.29
LASR2000	1,468.49	82.30	138.99	(218.02)	2,053.02	(0.35)
ARMR6500	5,213.52	332.77	995.41	1,761.22	9,999.05	6.32
ARSR3240	2,564.12	150.58	375.52	509.06	5,382.21	3.11
ARWR2500	1,804.16	114.25	327.32	(583.04)	7,137.50	2.85
ARHR4000	3,237.43	180.70	279.67	(1,349.69)	6,721.67	(0.62)
MSDR5000	3,681.83	158.98	1,056.00	1,588.70	17,334.04	3.77
MOBR4000	2,470.11	121.51	304.64	(702.91)	8,061.75	1.84

¹ Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

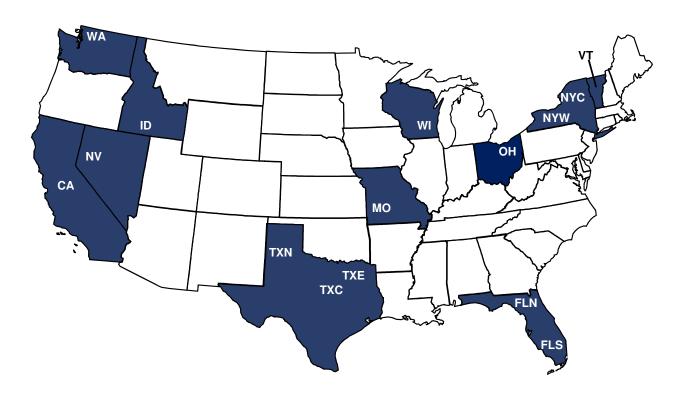
³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000)

⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000) 5 Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

Representative Farm: Dairy

- Thirteen of the twenty dairy operations are in good overall financial condition, one of the dairies is classified in marginal condition, and six dairies are in poor condition.
- Six of the dairies are projected to experience severe cash flow stress; these six operations are also projected to face a 25 percent or greater chance of losing real net worth by 2025.



Characteristics of Panel Farms Producing Milk, 2019.

Characteristics of Panel Farms Producing Milk, 2019.								
	Cropland	Assets	Debt/Asset	Gross Receipts	Cows			
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(number)			
CAD2000	700	24,008.00	0.20	10,908.30	2,000			
WAD300	250	4,380.00	0.29	1,406.30	300			
WAD1200	850	16,074.00	0.20	6,726.90	1,200			
IDD1500	850	12,490.00	0.19	8,438.30	1,500			
NVD1000	500	7,605.00	0.17	5,100.30	1,000			
TXND3800	1,920	25,599.00	0.10	18,368.70	3,800			
TXCD1500	616	10,090.00	0.43	6,646.50	1,500			
TXED400	950	2,635.00	0.27	1,308.30	400			
WID180	800	4,258.00	0.22	1,285.30	180			
WID1700	3,200	19,007.00	0.21	9,882.10	1,700			
OHD350	700	7,422.00	0.26	1,941.00	350			
NYWD400	800	5,442.00	0.22	2,156.10	400			
NYWD1200	2,100	18,402.00	0.23	6,585.00	1,200			
NYCD180	400	2,810.00	0.21	1,112.30	180			
NYCD800	1,800	12,912.00	0.21	4,424.90	800			
VTD160	220	1,813.00	0.33	786.00	160			
VTD400	1,000	5,998.00	0.34	2,417.90	400			
MOGD550	460	3,120.00	0.23	1,574.60	550			
FLND550	600	4,050.00	0.16	3,083.70	550			
FLSD1750	400	12,139.00	0.17	8,959.30	1,750			

Representative Farm: Dairy

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name	Overall	Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)	
13/1/6	2020	2025	2020-2025	2020-2025	
CAD2000			3-27	1-3	
WAD300			99-99	12-39	
WAD1200			1-12	1-1	
IDD1500			1-8	1-1	
NVD1000			1-6	1-1	
TXND3800			1-2	1-1	
TXCD1500			99-99	99-99	
TXED400			94-99	38-65	
WID180			1-1	1-1	
WID1700			1-7	1-1	
OHD350			96-99	18-31	
NYWD400			1-1	1-1	
NYWD1200			1-3	1-1	
NYCD180			1-1	1-1	
NYCD800			1-5	1-1	
VTD160			99-99	84-98	
VTD400			99-99	72-94	
MOGD550			11-15	8-8	
FLND550			1-13	1-1	
FLSD1750			1-13	2-2	

¹ Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities:

25-50

>50

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Milk

	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
CAD2000	10,746.24	243.73	1,239.75	1,637.11	21,736.07	3.78
WAD300	1,448.40	101.18	65.81	(1,445.68)	2,836.68	0.14
WAD1200	6,671.20	160.21	842.66	1,872.27	15,057.29	4.51
IDD1500	8,447.70	193.14	1,137.34	2,945.98	12,836.30	5.78
NVD1000	5,064.66	139.58	687.77	2,071.29	8,309.80	6.43
TXND3800	17,857.10	266.81	2,511.62	10,146.77	32,178.31	7.64
TXCD1500	6,537.40	154.45	(1,046.18)	(11,047.09)	(1,952.48)	101.42
TXED400	1,340.11	97.59	16.95	(1,010.11)	1,564.26	(1.72)
WID180	1,412.28	98.81	379.53	705.97	4,199.11	5.83
WID1700	9,937.86	214.15	1,400.58	4,087.49	18,824.30	5.71
OHD350	1,981.00	116.47	128.77	(1,685.73)	5,163.44	0.65
NYWD400	2,209.99	116.33	410.64	985.43	5,218.90	5.37
NYWD1200	6,557.98	176.42	1,197.83	2,917.40	17,039.39	4.84
NYCD180	1,167.07	83.80	304.44	786.19	3,007.92	6.92
NYCD800	4,426.76	146.25	883.86	1,591.32	12,718.40	5.57
VTD160	825.12	59.83	(2.96)	(914.65)	779.88	(5.55)
VTD400	2,500.59	116.11	(20.86)	(2,483.00)	2,707.89	(4.38)
MOGD550	1,624.58	89.14	375.44	878.67	3,212.72	6.73
FLND550	3,179.54	112.12	343.68	696.78	4,219.25	5.53
FLSD1750	9,082.15	165.16	872.26	2,495.07	12,273.64	5.05
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 $^{1 \ \ \}text{Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)}$

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000) $\,$

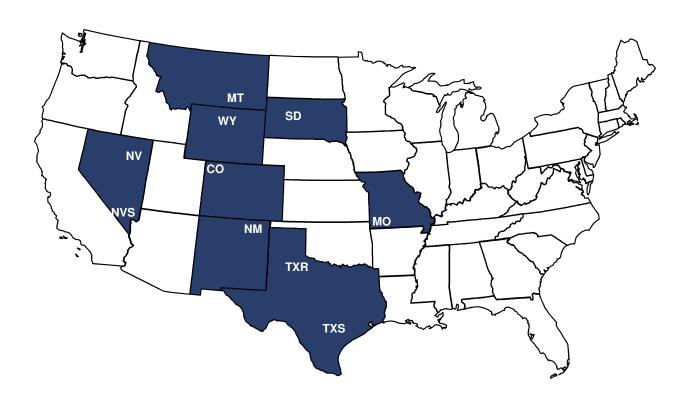
⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000)

⁵ Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

Representative Farm: Cow/Calf

- Five of the ten cow-calf operations are projected to be in good overall financial condition, four are in marginal condition, and one is in poor condition.
- Five ranches face the threat of severe cash flow stress; however, only one of these five ranches faces a significant (25 percent or greater) chance of losing real wealth.



Characteristics of Panel Farms Producing Beef Cattle, 2019.

	Cropland	Assets	Debt/Asset	Gross Receipts	Cows		
	(acres)	(\$1,000)	(ratio)	(\$1,000)	(number)		
NVB650	1,300	10,964.00	0.01	549.10	650		
NVSB550	125	3,235.00	0.03	448.50	550		
MTB600	900	7,944.00	0.01	528.80	600		
WYB475	330	2,352.00	0.06	445.80	475		
COB275	650	14,600.00	0.01	359.10	275		
NMB210	0	5,764.00	0.02	183.00	210		
SDB600	1,000	7,890.00	0.05	583.20	600		
MOB250	360	3,335.00	0.02	457.60	250		
TXRB400	0	8,327.00	0.01	416.30	400		
TXSB300	100	5,719.00	0.01	327.20	300		

Representative Farm: Cow/Calf

Economic Viability of Representative Farms over the 2020-2025 Period

Farm Name	Overall	Ranking	P(Negative Ending Cash)	P(Real Net Worth Declines)	
5/4/1	2020	2025	2020-2025	2020-2025	
NVB650			4-52	1-1	
NVSB550			17-53	4-1	
MTB600			4-8	1-1	
WYB475			99-99	39-44	
COB275			5-1	1-1	
NMB210			99-98	1-1	
SDB600			99-99	22-16	
MOB250			1-1	1-1	
TXRB400			1-1	1-1	
TXSB300			1-1	1-1	

1 Viability is classified as good (green), moderate (yellow), and poor (red) based on the probabilities:

Implications of the Preliminary 2021 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Beef Cattle

	Receipts	Payments	NCFI	Reserve 2025	Net Worth 2025	CRNW
	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(%)
NVB650	588.36	7.38	101.39	(18.30)	10,959.81	1.94
NVSB550	486.88	5.48	83.12	(26.38)	3,229.74	2.22
MTB600	568.35	6.96	139.74	178.15	8,227.74	2.52
WYB475	470.78	6.36	38.65	(463.01)	1,991.62	(0.10)
COB275	374.93	3.29	152.36	512.05	14,807.22	2.15
NMB210	199.42	2.31	43.27	(99.36)	5,645.53	1.68
SDB600	625.54	7.60	9.27	(1,101.51)	6,767.36	0.04
MOB250	459.69	12.31	217.26	599.17	3,738.17	4.08
TXRB400	453.54	5.01	109.32	310.46	8,397.43	2.07
TXSB300	345.71	4.56	127.61	247.45	5,783.42	2.11

¹ Receipts are average annual total cash receipts including government payments, 2020-2025 (\$1,000)

² P(NegativeEnding Cash) is the probability that the farm will have a cash flow deficit. Reported values represent the probabilities for 2020 and 2025.

³ P(Real Net Worth Decline) is the probability that the farm will have a loss in real net worth relative to the beginning net worth. Reported values represent the probabilities for losing real net worth from 2017 to 2020 and from 2017 to 2025.

² Payments are average annual total government payments, 2020-2025 (\$1,000)

³ NCFI is average annual net cash farm income, 2020-2025 (\$1,000)

⁴ Reserve 2025 is average ending cash reserves, 2025 (\$1,000)

⁵ Net Worth 2025 is average nominal ending net worth, 2025 (\$1,000)

⁶ CRNW is average percentage change in real net worth over 2020-2025 period, (%)

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