Agricultural Markets Situation and Outlook

May 13, 2021

NDSU EXTENSION AGRIBUSINESS

Use the Q&A tool
to ask questions

Inflation and Timber Prices

Bryon Parman

Cell – 701-261-5919

Bryon.Parman@ndsu.edu

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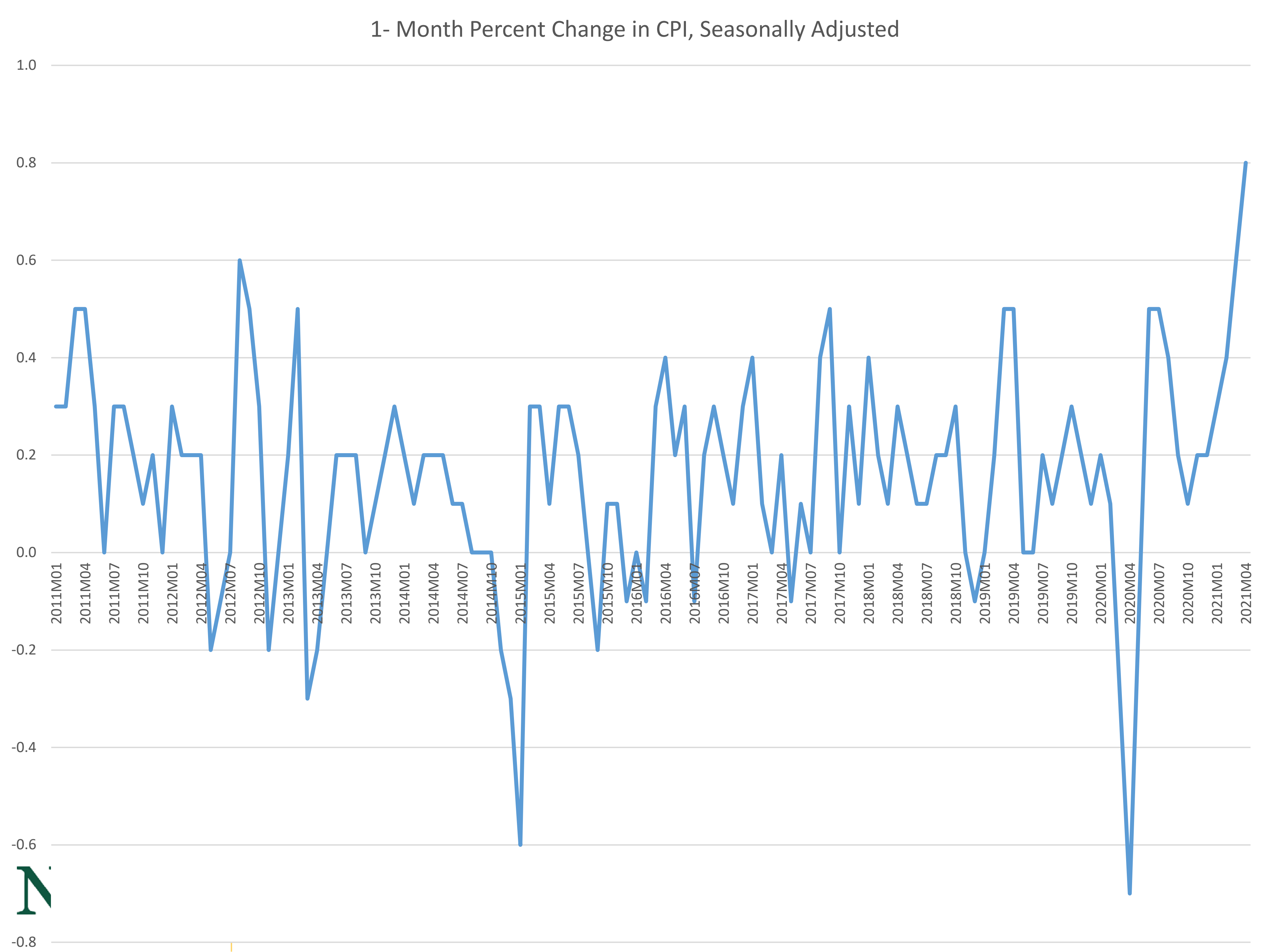
April Inflation Higher than Expected

- Economists predicted a 3.6% increase in prices since April 2020
- Data showed an increase of 4.2%
- The Monthly gain was 0.8%
  - Expected gain was 0.2%
- Fastest Increase since 2008
- Largest jump in core inflation since 1981
  - (Core inflation excludes food and energy)

Buried in the headlines

- "One of the main reasons for the big annual gain was because of the base effects"
  - This statement refers to the base data points used for comparison
  - If a month of low or negative price changes are compared to a month of moderate or average price changes, then the resulting percentage change can be distorted



1- Month Percent Change in CPI, Seasonally Adjusted
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
2011M01
2011M04
2011M07
2011M10
2012M01
2012M04
2012M07
2012M10
2013M01
2013M04
2013M07
2013M10
2014M01
2014M04
2014M07
2014M10
2015M01
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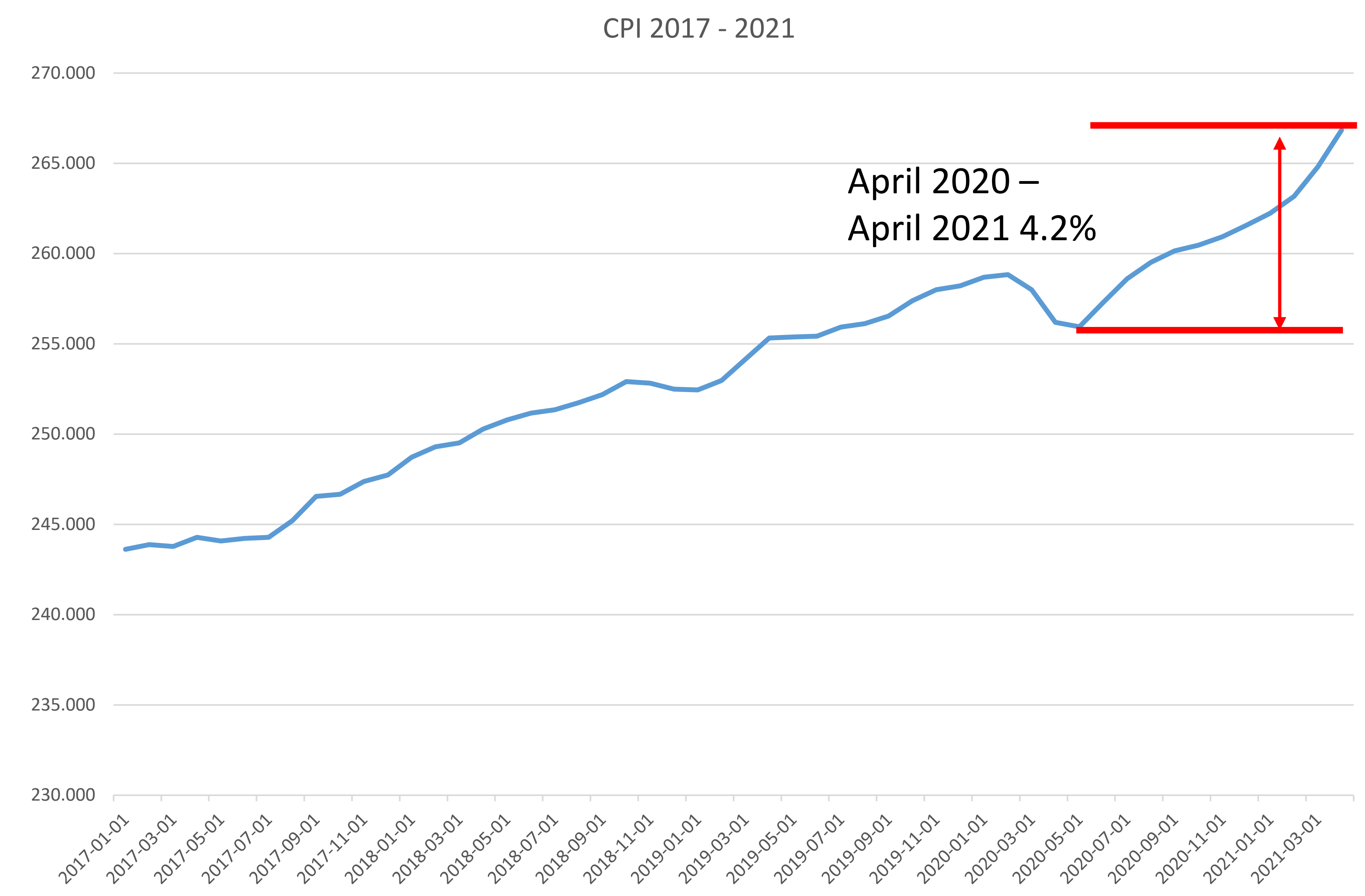
2020M10
2021M01
2021M04


CPI 2017 - 2021
270.000
265.000
260.000
255.000
250.000
245.000
240.000
235.000
230.000
April 2020 –
April 2021 4.2%
2017-01-01
2017-03-01
2017-05-01
2017-07-01
2017-09-01
2017-11-01
2018-01-01
2018-03-01
2018-05-01
2018-07-01
2018-09-01
2018-11-01
2019-01-01
2019-03-01
2019-05-01
2019-07-01
2019-09-01
2019-11-01
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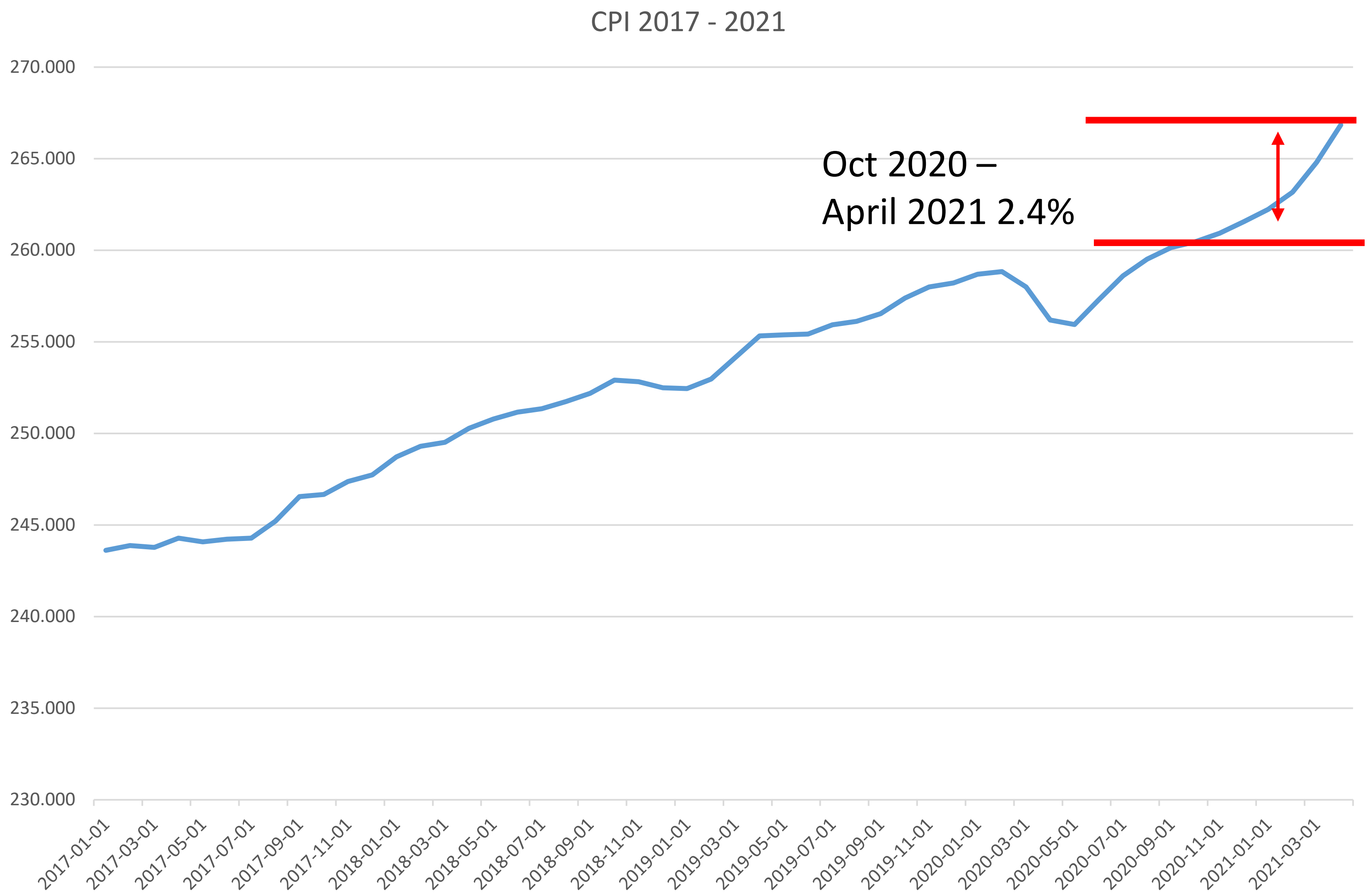
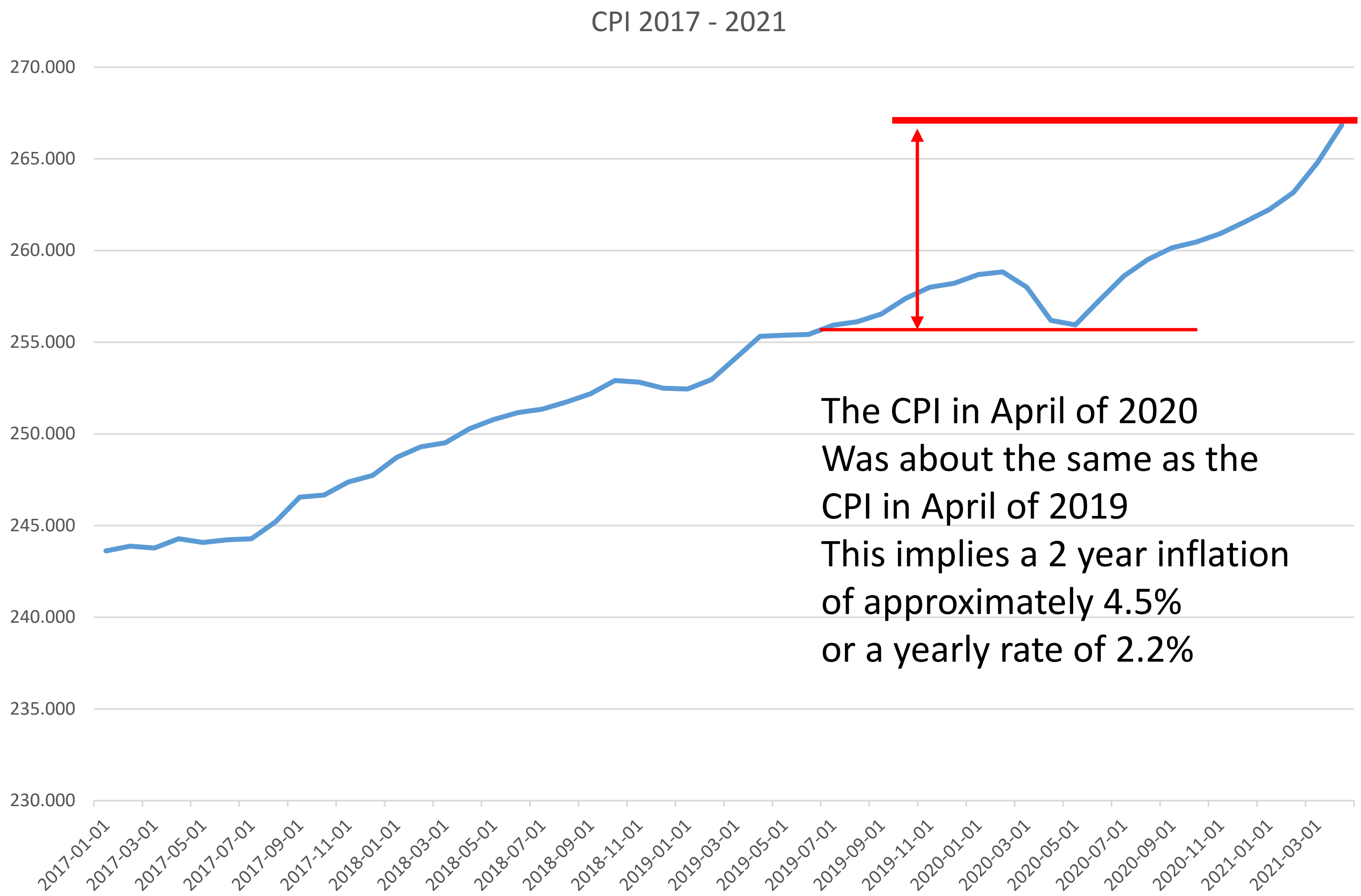
2021-01-01
2021-03-01



NDSU EXTENSION AGRIBUSINESS


CPI 2017 - 2021
270.000
265.000
260.000
255.000
250.000
245.000
240.000
235.000
230.000
2017-01-01
2017-03-01
2017-05-01
2017-07-01
2017-09-01
2017-11-01
2018-01-01
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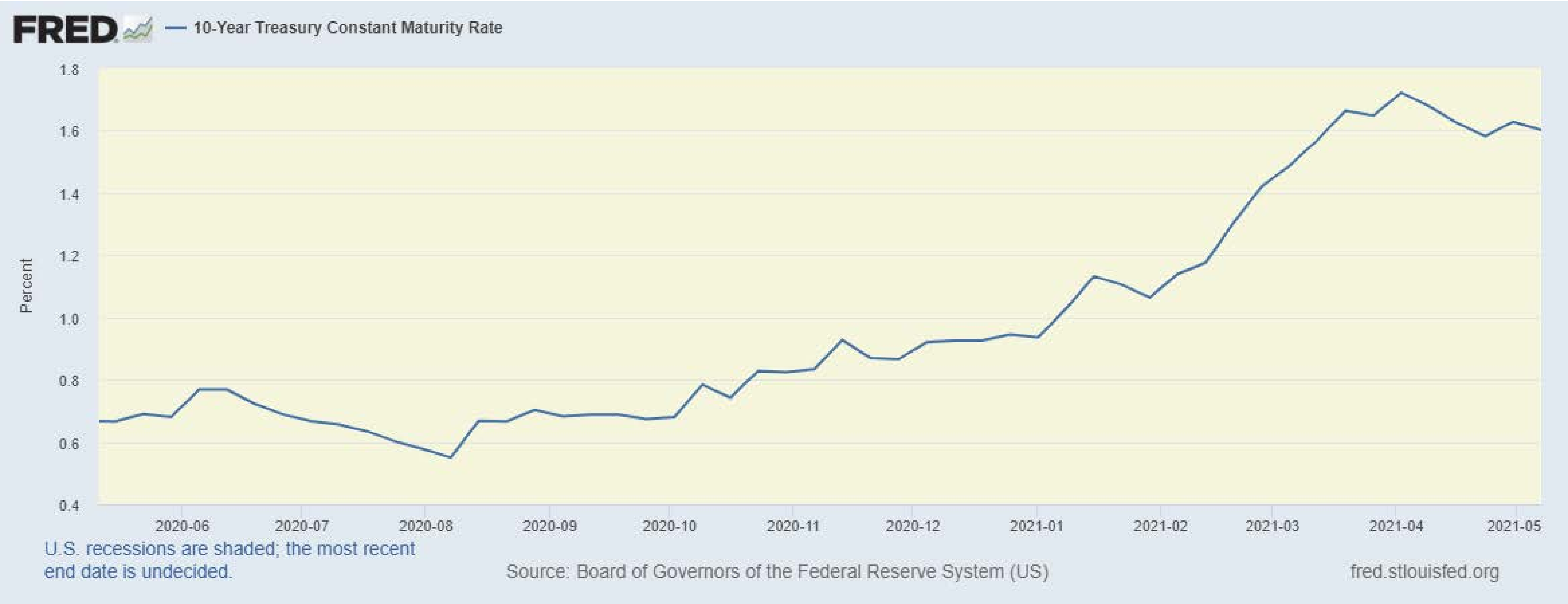
2019-09-01
2019-11-01
2020-01-01
2020-03-01
2020-05-01
2020-07-01
2020-09-01
2020-11-01
2021-01-01
2021-03-01
The CPI in April of 2020
Was about the same as the
CPI in April of 2019
This implies a 2 year inflation
of approximately 4.5%
or a yearly rate of 2.2%

Federal Reserve To Wait and See

- When compared to Oct. 2020, inflation was 2.4%
  - When compared to April 2019, Inflation 4.5% (two year total) for a yearly average of 2.2%
  - Federal reserve has a 2% inflation rate per year target

- Federal Reserve has made statements that they see the recent inflation spike as a blip in the greater economic recovery
- They do no think any change in monetary policy is warranted at this time

10-Year T-Bond Weekly Rate May 2020 – May 2021



10-Year T-Bond Weekly Rate May 2016 to May 2021

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Timber Prices

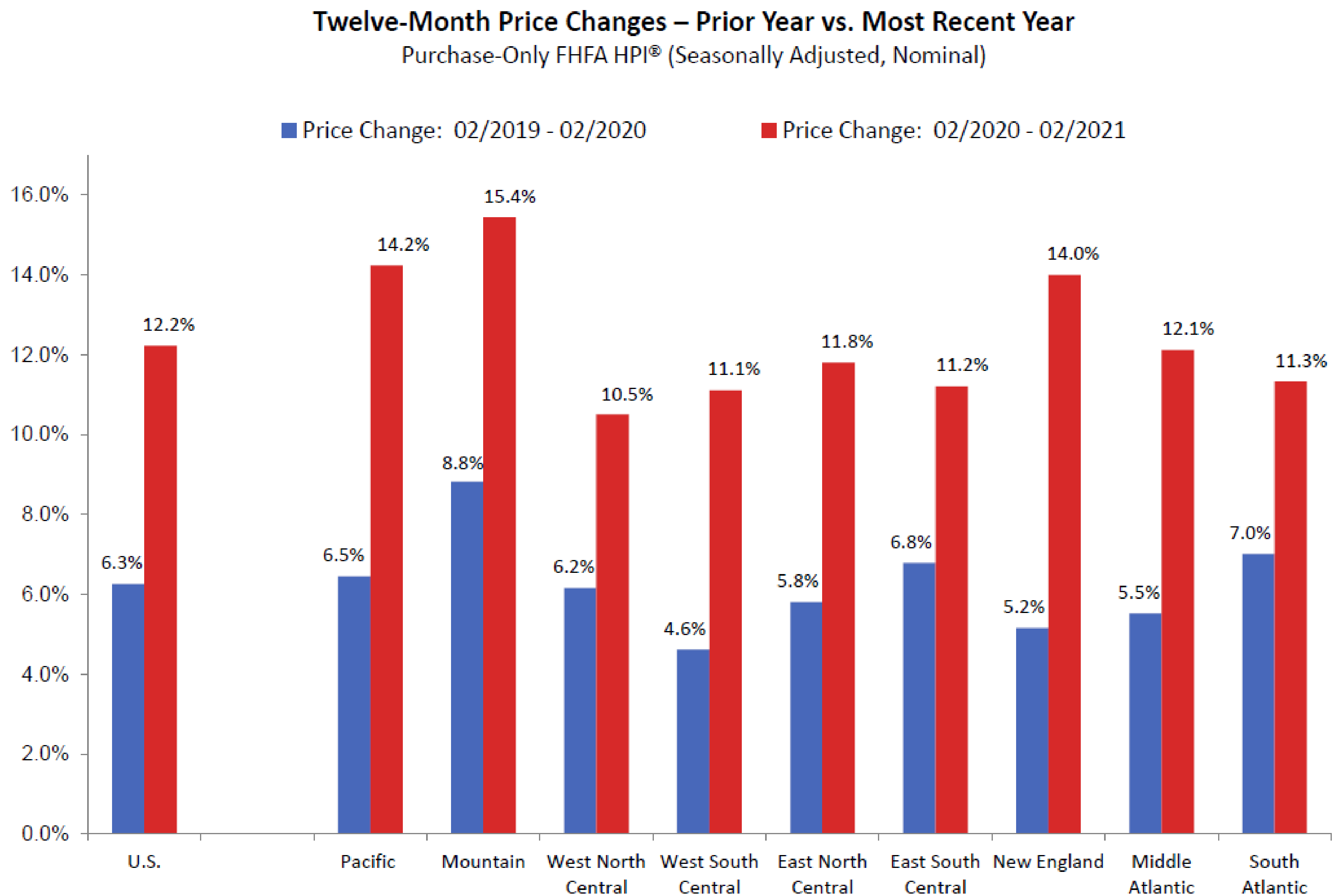
- NAHB estimates that rising timber prices have added over $36,000 to the cost of building the average new home

- Raw lumber prices up 250-300% since early 2020

- Existing home sale prices increasing dramatically with days on the market decreasing

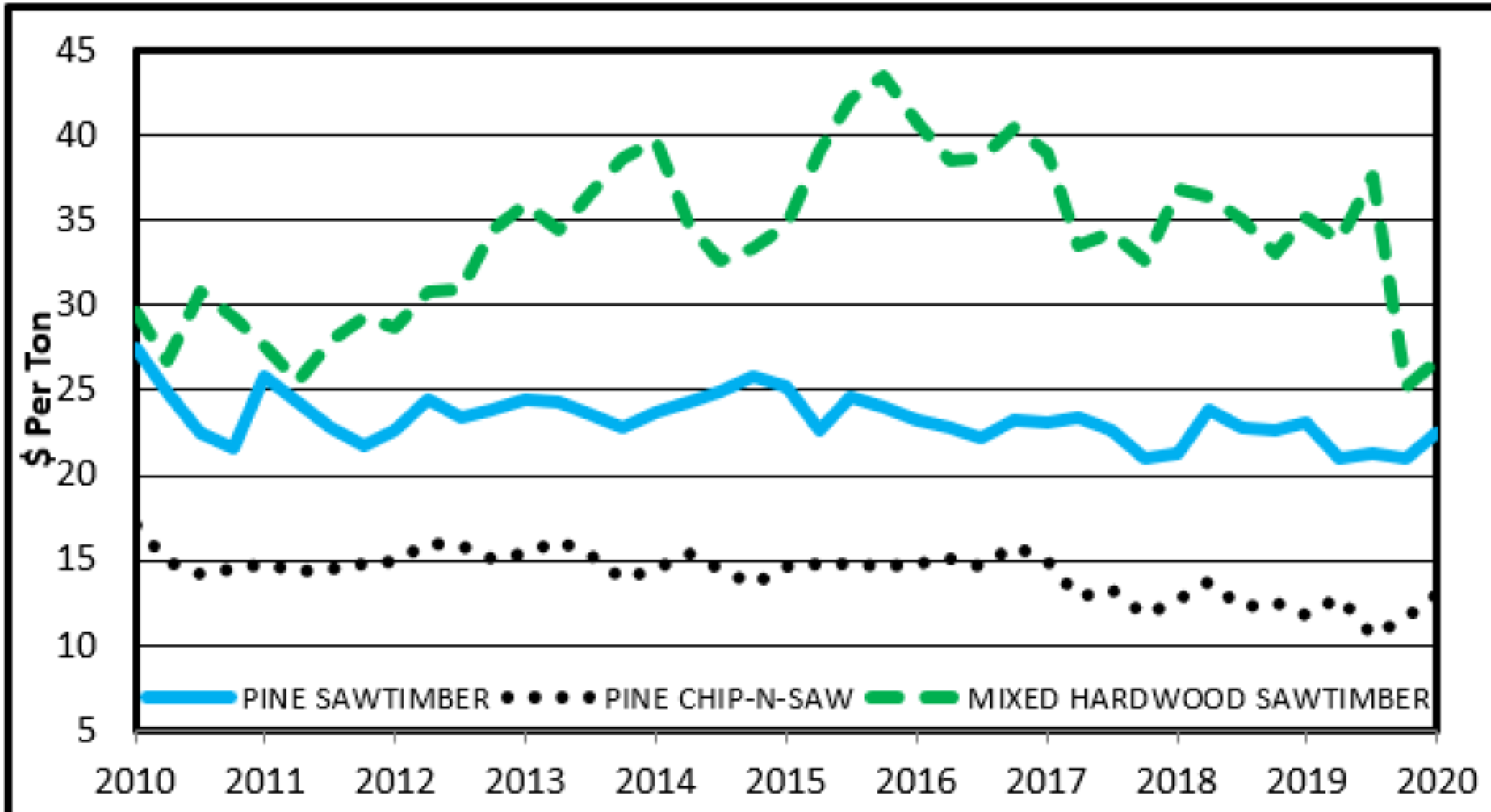

CME:LBSN2021, D 1495.0 −49.5 (−3.2%) O:1498.1 H:1598.9 L:1481.5 C:1495.0
RANDOM LENGTH LUMBER FUTURES (JUL 2021), 1D, CME
Vol
1800.0
1700.0
1600.0
1495.0
1400.0
1300.0
1200.0
1100.0
1000.0
900.0
800.0
700.0
600.0
500.0
400.0
300.0
Jul
Aug
Sep
Oct
Nov
2
2021
Mar
Apr
May

Home Prices Year over Year Change by Region



Source: FHFA

Figure 1: Average Mississippi pine sawtimber, pine chip-n-saw, and mixed hardwood sawtimber stumpage prices ($/ton) for 4th quarter 2010 through 4th quarter 2020.*



*Prices from 2010-2017 are from Timber Mart-South. 2018-current prices are from MSU Extension.

Bottle Necks at the Saw Mills

- Low timber prices following the 2008/09 financial collapse caused the closing of many sawmills across the U.S.
- Excess supply of standing timber followed by low numbers of new housing starts for several years continued to depress prices
- Less paper used with consumers choosing other means of communication such as electronic depressed pulpwood prices also
- Home improvement projects and home demand survived (thrived) during pandemic creating bottleneck at sawmills.

Implications of May WASDE

Frayne Olson

Crop Economist/ Marketing Specialist

frayne.olson@ndsu.edu

701-231-7377 (o)

701-715-3673 (c)

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Pre-Report Industry Estimates

U.S. 2021-22 Ending Stocks (billion bushels)			
	All Wheat	**Corn**	**Soybean**
Average Trade Estimate	**0.730 bill. bu.**	**1.344 bill. bu.**	**0.138 bill. bu.**
Highest Trade Estimate	0.837 bill. bu.	1.622 bill. bu.	0.230 bill. bu.
Lowest Trade Estimate	0.644 bill. bu.	1.100 bill. bu.	0.110 bill. bu.
USDA April 9, 2021	N.A.	N.A.	N.A.
USDA May 12, 2021	**0.774 bill. bu.**	**1.507 bill. bu.**	**0.140 bill. bu.**

Reuters News and April 12, 2021 USDA - WASDE

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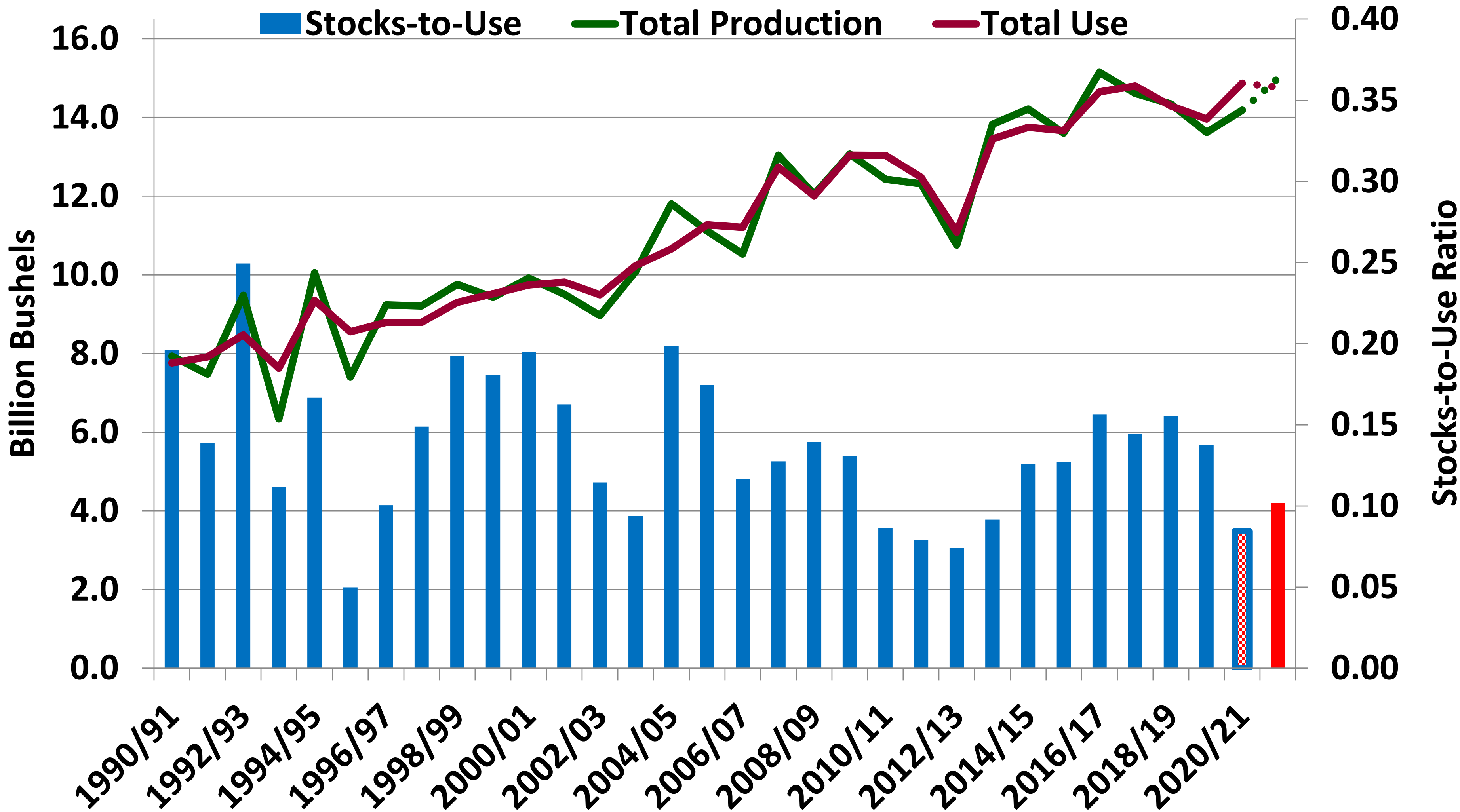
U.S. Corn Supply & Demand Table

U.S. Corn	2019/2020	2020/2021 (Apr.)	2021/2022 (Apr.)
Planted A.	89.7 Mill. A.	**90.8 Mill. A.**	**91.1 Mill. A.***
Harvested A.	81.3 Mill. A.	**82.5 Mill. A.**	**83.3 Mill. A.***
Yield/Harvest A.	167.5 bu.	**172.0 bu.**	**179.5 bu.***
Beginning Stocks	2,221 Mill. Bu.	**1,919 Mill. Bu.**	**1,257 Mill. Bu.**
Production	13,620 Mill. Bu.	**14,182 Mill. Bu.**	**14,990 Mill. Bu.**
Imports	42 Mill. Bu.	**25 Mill. Bu.**	**25 Mill. Bu.**
Total Supply	***15,883 Mill. Bu.***	***16,127 Mill. Bu.***	***16,272 Mill. Bu.***
Feed & Residual	5,897 Mill. Bu.	**5,700 Mill. Bu.**	**5,700 Mill. Bu.**
Food, Seed, Ind.	6,287 Mill. Bu.	**6,395 Mill. Bu.**	**6,615 Mill. Bu.**
Ethanol	4,857 Mill. Bu.	**4,975 Mill. Bu.**	**5,200 Mill. Bu.**
Exports	1,778 Mill. Bu.	**2,775 Mill. Bu.**	**2,450 Mill. Bu.**
Total Use	***13,963 Mill. Bu.***	***14,870 Mill. Bu.***	***14,765 Mill. Bu.***
Ending Stocks	**1,919 Mill. Bu.**	**1,257 Mill. Bu.**	**1,507 Mill. Bu.**

U.S. Corn – Total Production & Use

(Billion Bushels)

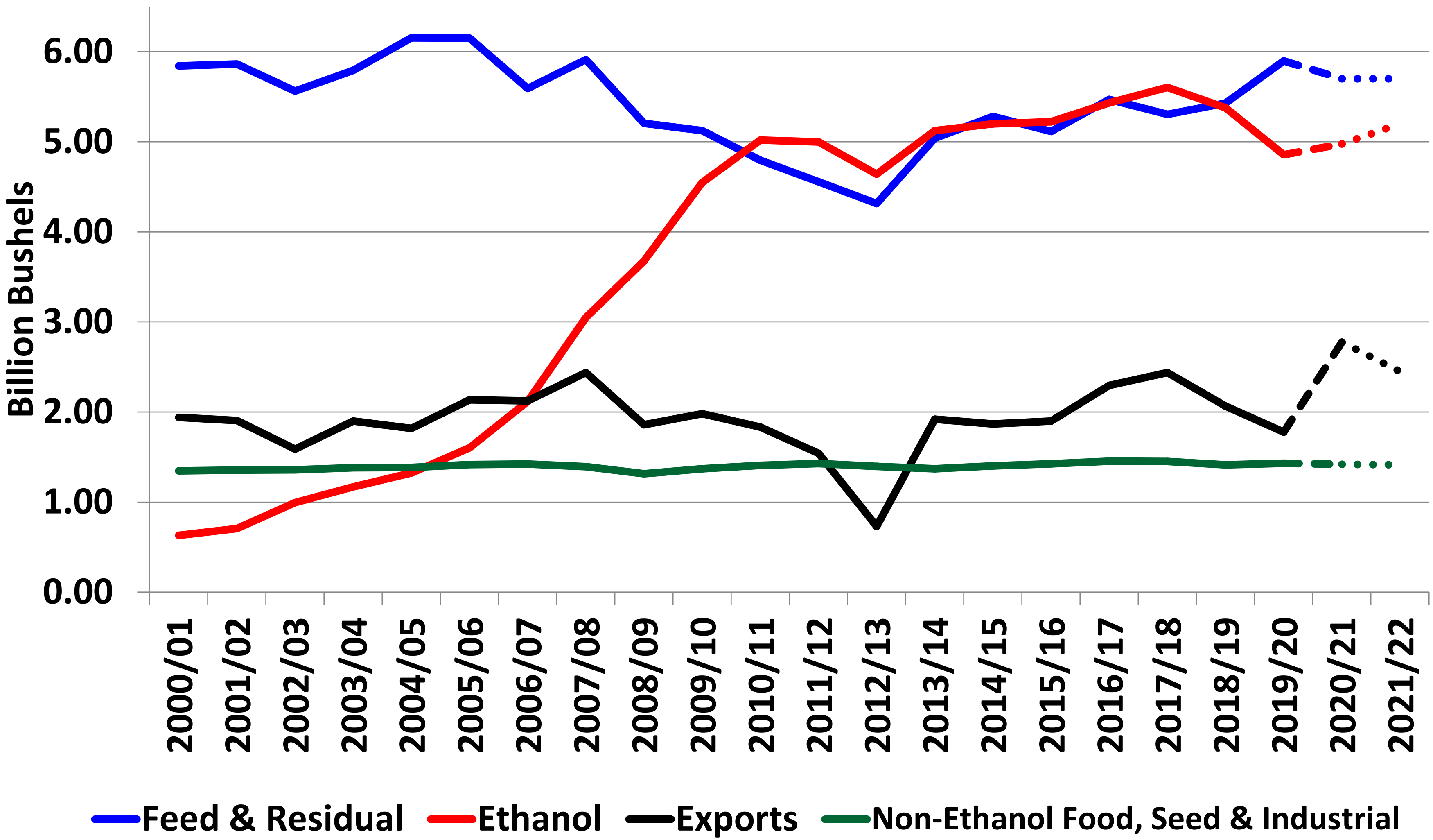


NDSU EXTENSION AGRIBUSINESS

Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 4

U.S. Corn – Total Use

(Billion Bushels)



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Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 4

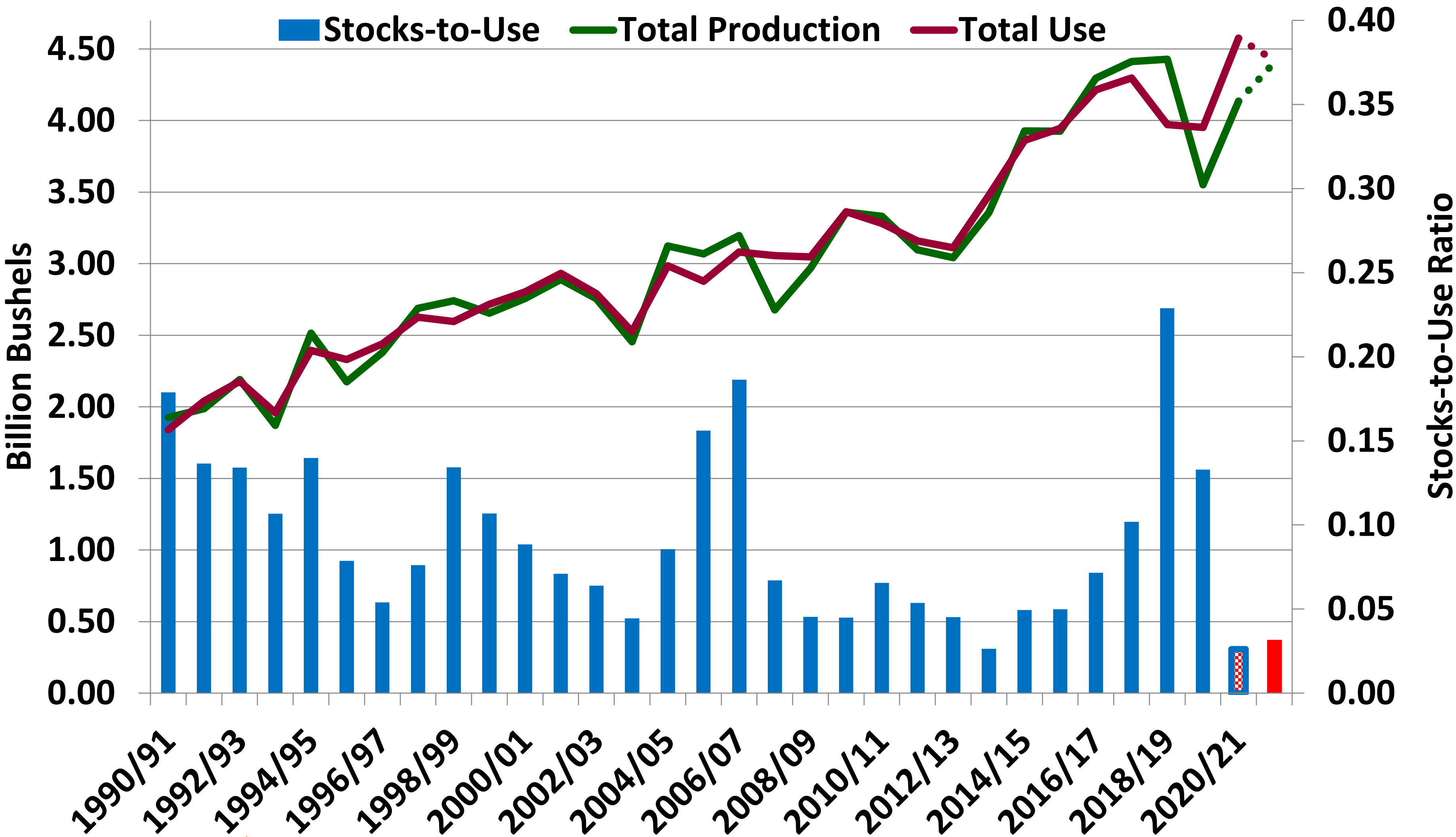
U.S. Soybean Supply & Demand Table

U.S. Soybean	2019/2020	2020/2021 (Apr.)	2021/2022 (Apr.)
Planted A.	76.1 Mill. A.	**83.1 Mill. A.**	**87.6 Mill. A.***
Harvested A.	74.9 Mill. A.	**82.3 Mill. A.**	**86.7 Mill. A.***
Yield/Harvest A.	47.4 bu.	**50.2 bu.**	**50.8 bu.***
Beginning Stocks	909 Mill. Bu.	**525 Mill. Bu.**	**120 Mill. Bu.**
Production	3,552 Mill. Bu.	**4,135 Mill. Bu.**	**4,405 Mill. Bu.**
Imports	15 Mill. Bu.	**35 Mill. Bu.**	**35 Mill. Bu.**
Total Supply	***4,476 Mill. Bu.***	***4,695 Mill. Bu.***	***4,560 Mill. Bu.***
Crushings	2,165 Mill. Bu.	**2,199 Mill. Bu.**	**2,225 Mill. Bu.**
Exports	1,682 Mill. Bu.	**2,280 Mill. Bu.**	**2,075 Mill. Bu.**
Seed	96 Mill. Bu.	**102 Mill. Bu.**	**104 Mill. Bu.**
Residual	9 Mill. Bu.	**4 Mill. Bu.**	**15 Mill. Bu.**
Total Use	***3,952 Mill. Bu.***	***4,575 Mill. Bu.***	***4,420 Mill. Bu.***
Ending Stocks	**525 Mill. Bu.**	**120 Mill. Bu.**	**140 Mill. Bu.**

April 12, 2021 USDA - WASDE

U.S. Soybean – Total Production & Use

(Billion Bushels)

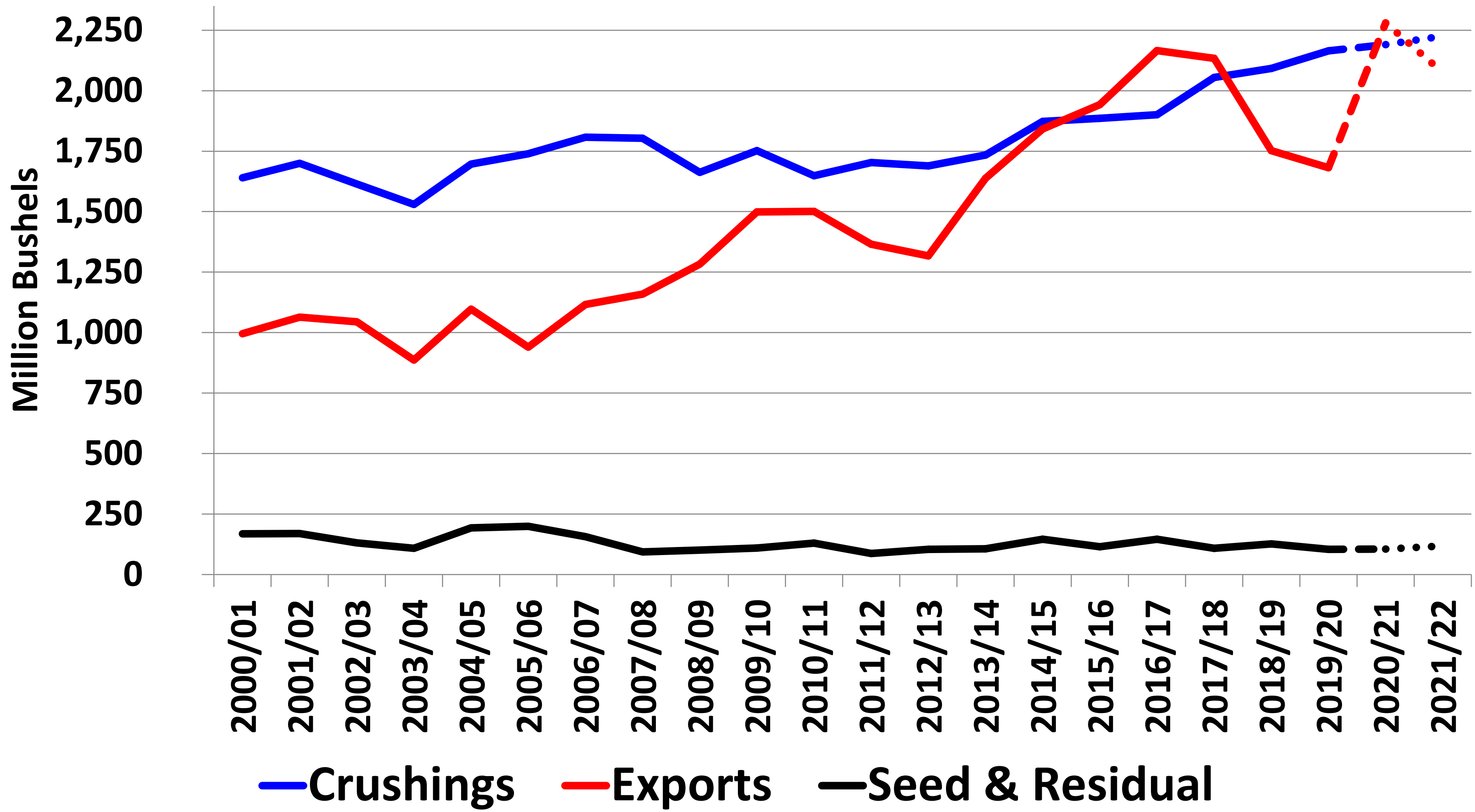


EXTENSION AGRIBUSINESS

Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 3

U.S. Soybean – Total Use

(Billion Bushels)



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Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 3

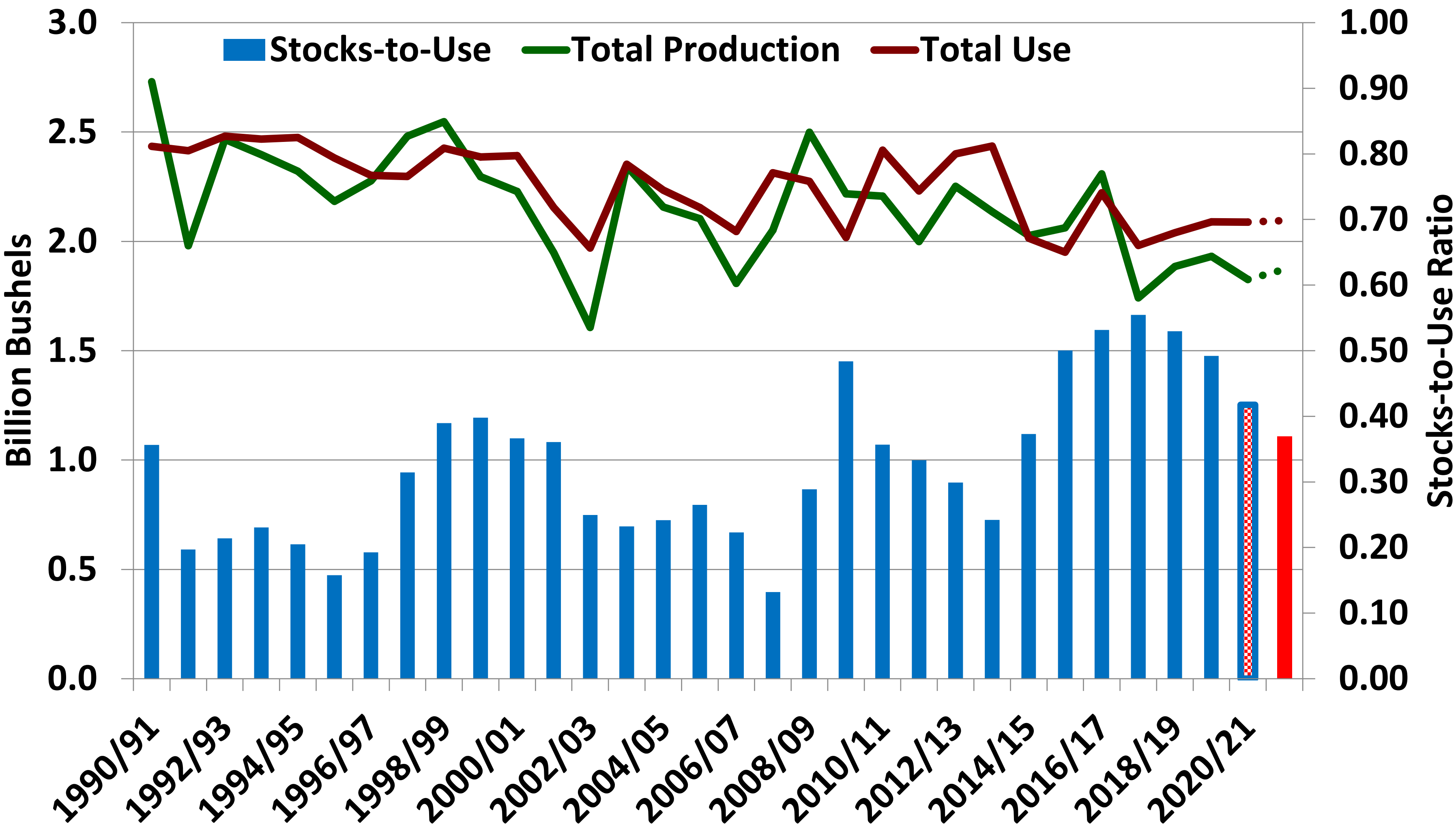
U.S. All Wheat Supply & Demand Table

U.S. All Wheat	2019/2020	2020/2021 (Apr.)	2021/2022 (Apr.)
Planted A.	45.5 Mill. A.	44.3 Mill. A.	46.4 Mill. A.*
Harvested A.	37.4 Mill. A.	36.7 Mill. A.	37.4 Mill. A.*
Yield/Harvest A.	51.7 bu.	49.7 bu.	50.0 bu.*
Begin Stocks	1,080 Mill. Bu.	1,028 Mill. Bu.	872 Mill. Bu.
Production	1,932 Mill. Bu.	1,826 Mill. Bu.	1,872 Mill. Bu.
Imports	105 Mill. Bu.	105 Mill. Bu.	125 Mill. Bu.
Total Supply	***3,117 Mill. Bu.***	***2,959 Mill. Bu.***	***2,869 Mill. Bu.***
Food	962 Mill. Bu.	960 Mill. Bu.	963 Mill. Bu.
Seed	60 Mill. Bu.	63 Mill. Bu.	62 Mill. Bu.
Feed & Residual	101 Mill. Bu.	100 Mill. Bu.	179 Mill. Bu.
Exports	965 Mill. Bu.	965 Mill. Bu.	900 Mill. Bu.
Total Use	***2,089 Mill. Bu.***	***2,088 Mill. Bu.***	***2,095 Mill. Bu.***
Ending Stocks	**1,028 Mill. Bu.**	**872 Mill. Bu.**	**774 Mill. Bu.**

April 12, 2021 USDA - WASDE

U.S. All Wheat – Total Production & Use

(Billion Bushels)

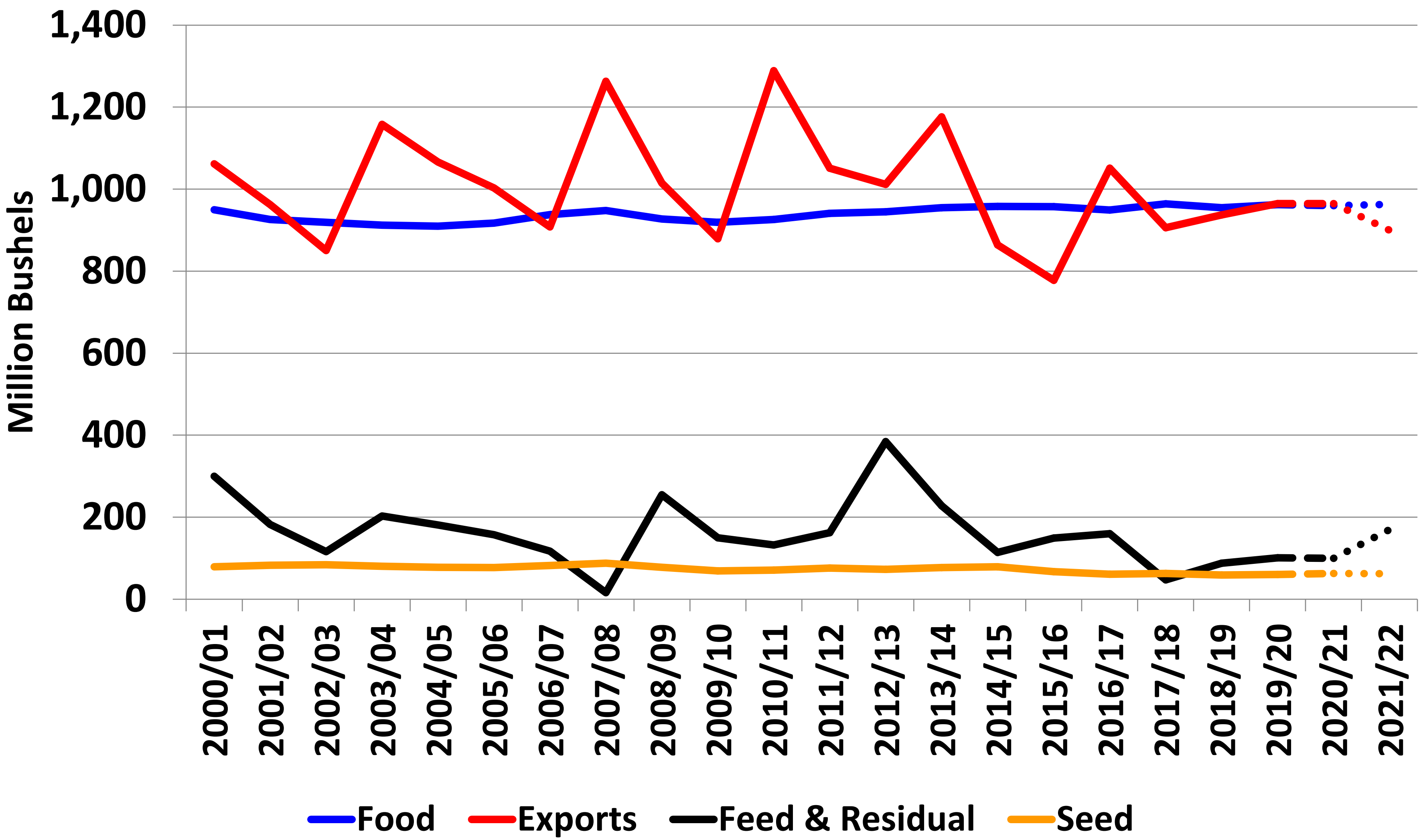


EXTENSION AGRIBUSINESS

Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 6

U.S. All Wheat – Total Use

(Billion Bushels)



NDSU EXTENSION AGRIBUSINESS

Apr. 12, 2021 WASDE Report & USDA – Feed Grains Data Base Table 6

Next Major USDA Reports

- June ***WASDE*** and ***Production*** reports:
  - **June 10, 2021, at 11:00 am CT.**
  - Updated U.S. and global supply and demand forecasts.
  - Estimated winter wheat production by state.
- ***Acreage*** report:
  - **June 30, 2021, at 11:00 am CT.**
  - Survey of approximately 70,900 farm operators in U.S. during first two weeks of June.

LIVESTOCK PRICE SITUATION AND OUTLOOK

Tim Petry

Extension Livestock Marketing Economist

Tim.Petry@ndsu.edu

www.ndsu.edu/livestockeconomics

701-231-7469

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EXTENDING KNOWLEDGE ›› CHANGING LIVES

MAY FDR CAT and MAY CORN

Volatile Prices Will Continue

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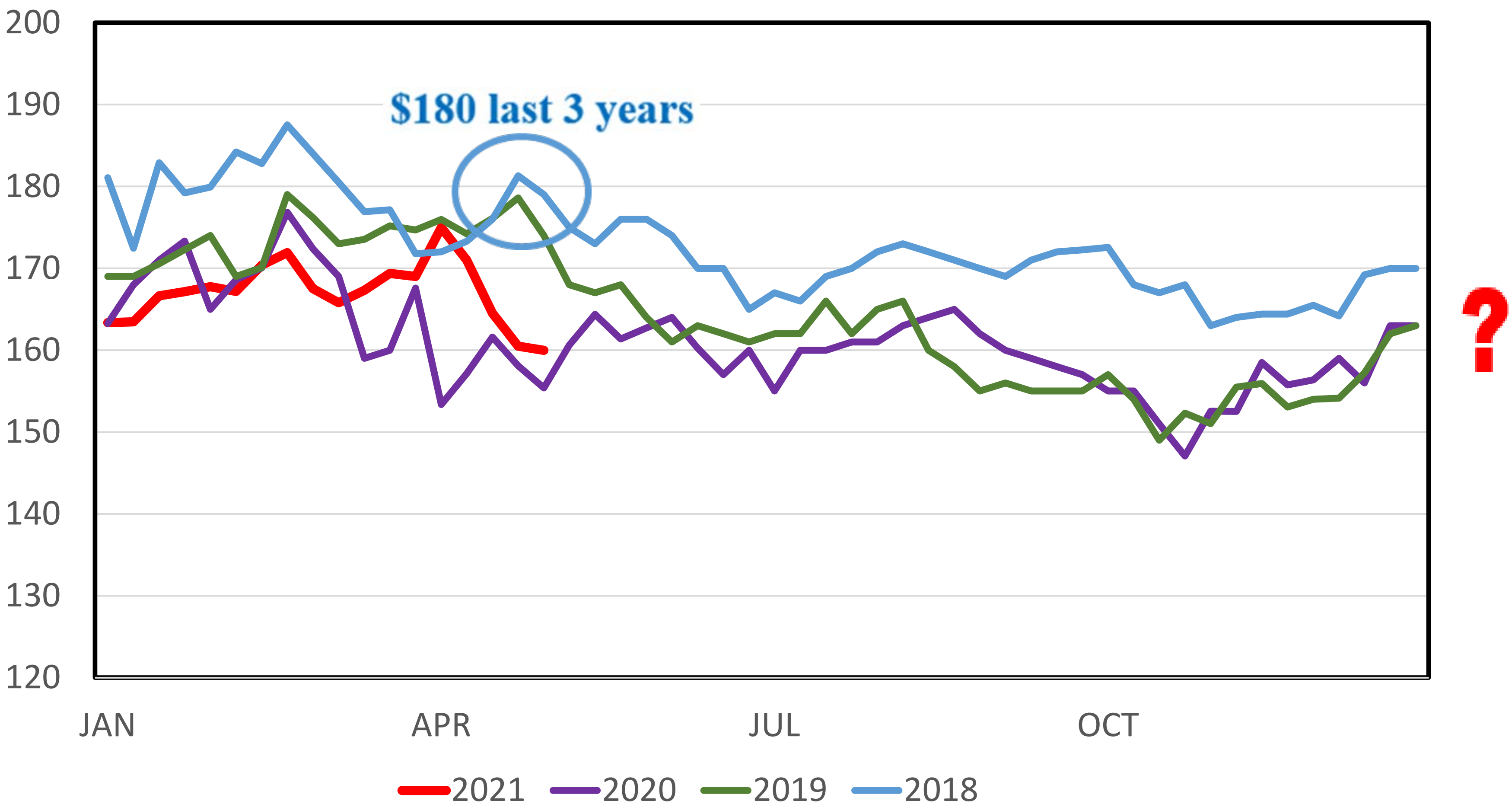
MED. FRAME #1 STEER CALF PRICES
550-600 Pounds, N.D., Weekly



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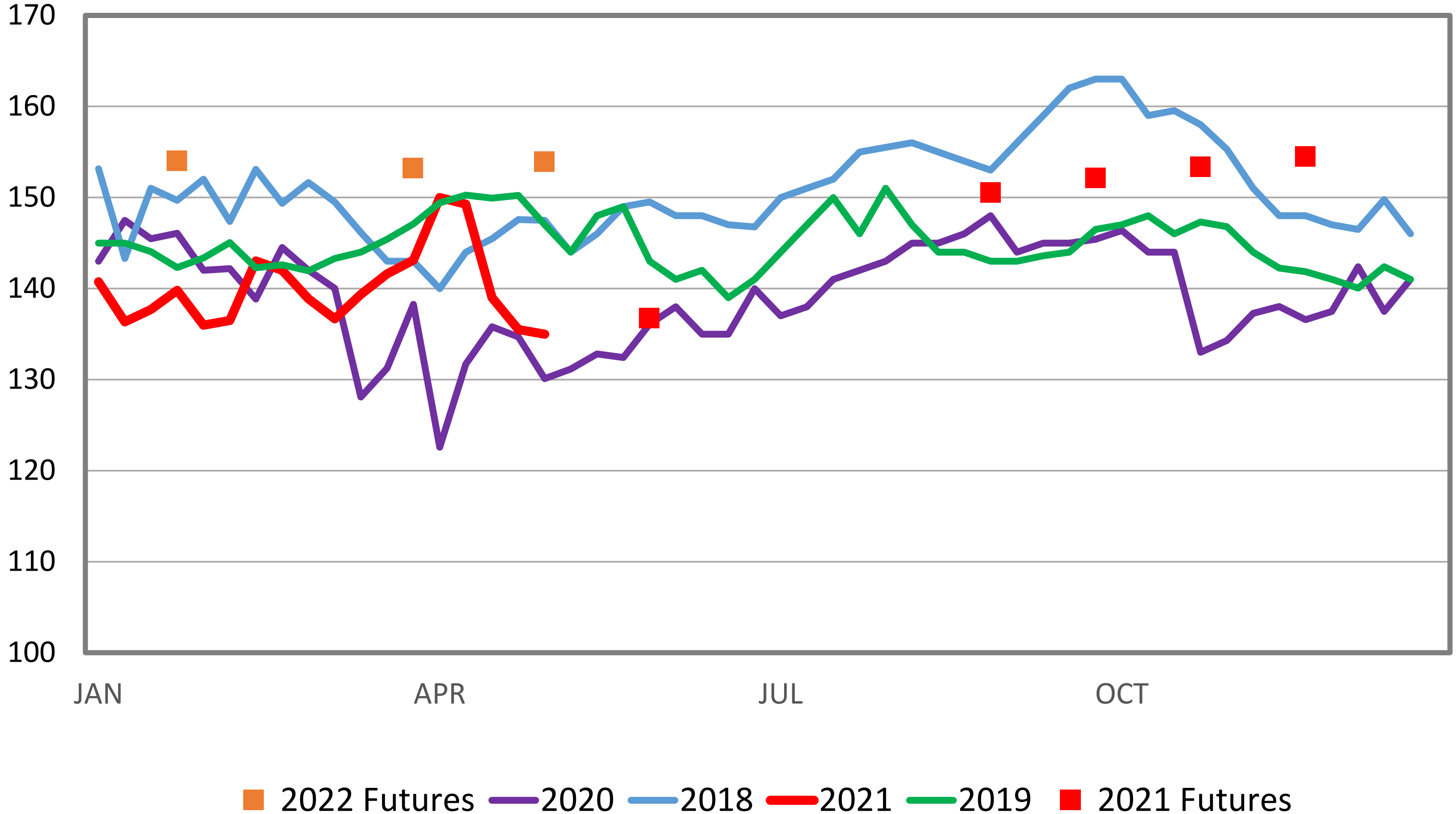
EXTENDING KNOWLEDGE ❯❯ CHANGING LIVES

MED. & LRG. #1 FEEDER STEER PRICES

750-800 Pounds, N.D., Weekly



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EXTENDING KNOWLEDGE ❯❯ CHANGING LIVES

NDSU EXTENSION AGRIBUSINESS

CME Group MARKETS

Feeder Cattle

Contract	Last
GFY00 (Cash)	130.570
GFK21 (May '21)	136.750s
GFQ21 (Aug '21)	150.525s
GFU21 (Sep '21)	152.050s
GFV21 (Oct '21)	153.350s
GFX21 (Nov '21)	154.450s
GFF22 (Jan '22)	154.000s
GFH22 (Mar '22)	153.200s
GFJ22 (Apr '22)	153.925s

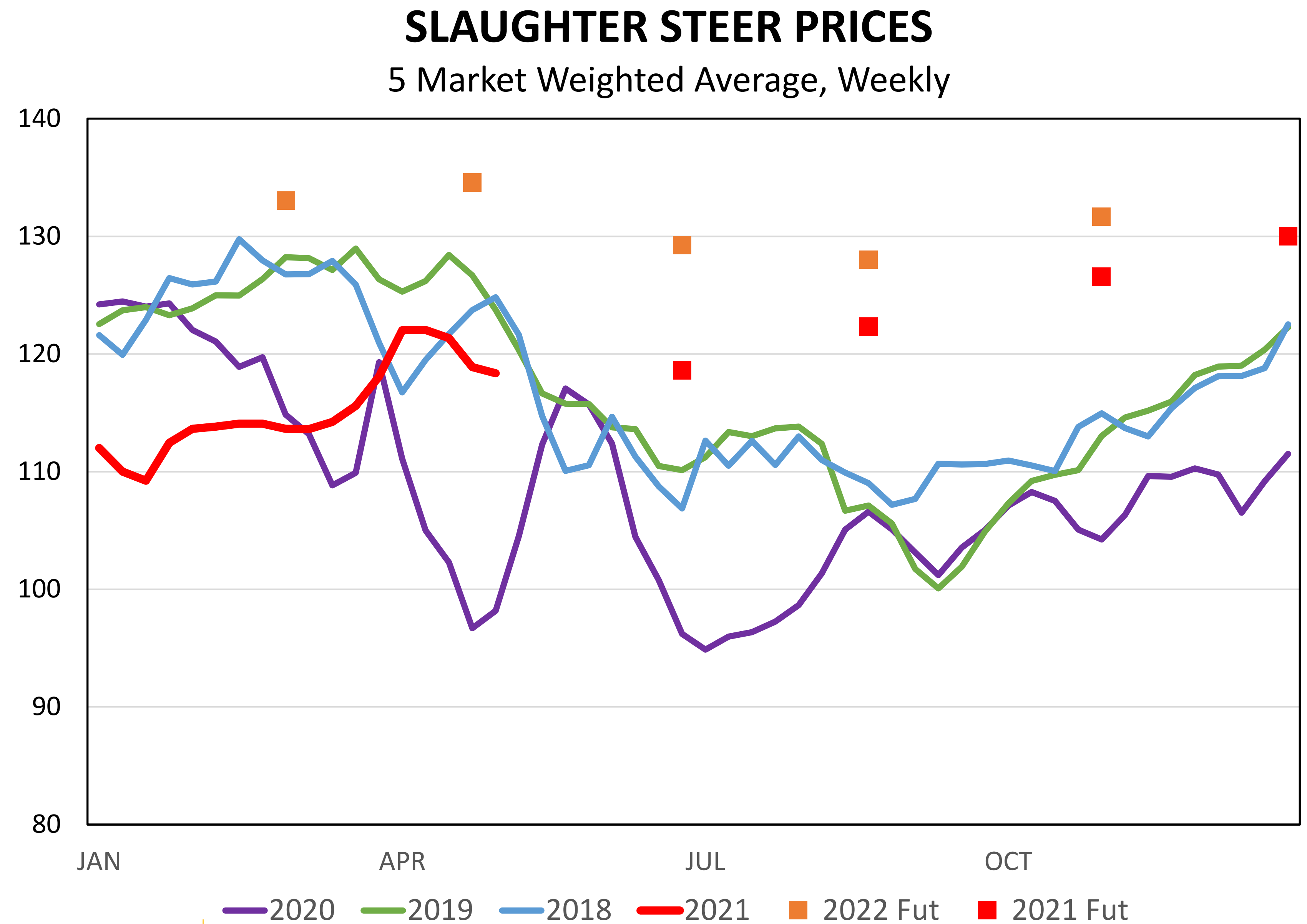
+$13.78

Corn

Contract	Last
ZCY00 (Cash)	762-2s
ZCK21 (May '21)	757-4s
ZCN21 (Jul '21)	714-6s
ZCU21 (Sep '21)	621-4s
ZCZ21 (Dec '21)	593-0s
ZCH22 (Mar '22)	598-0s
ZCK22 (May '22)	599-6s

-$1.36

Change corn .10/bu.-change fall calf price $1/cwt. in opposite direction

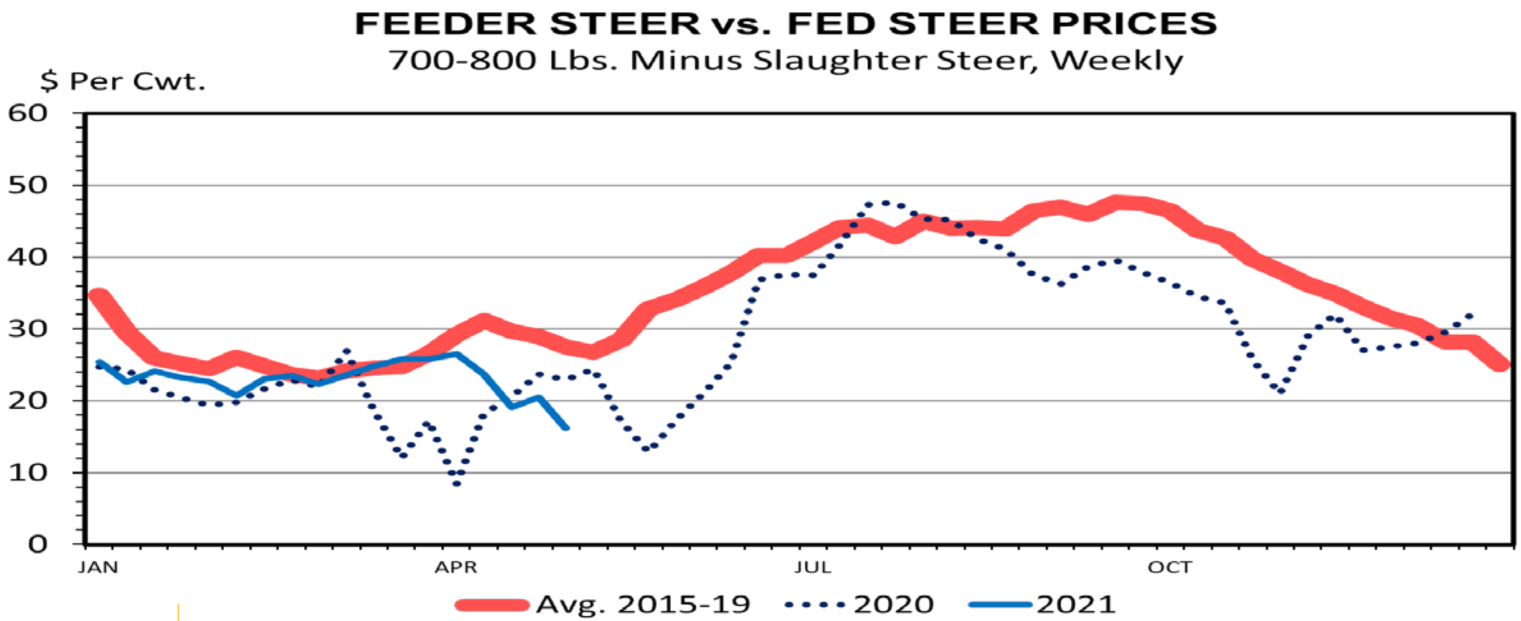


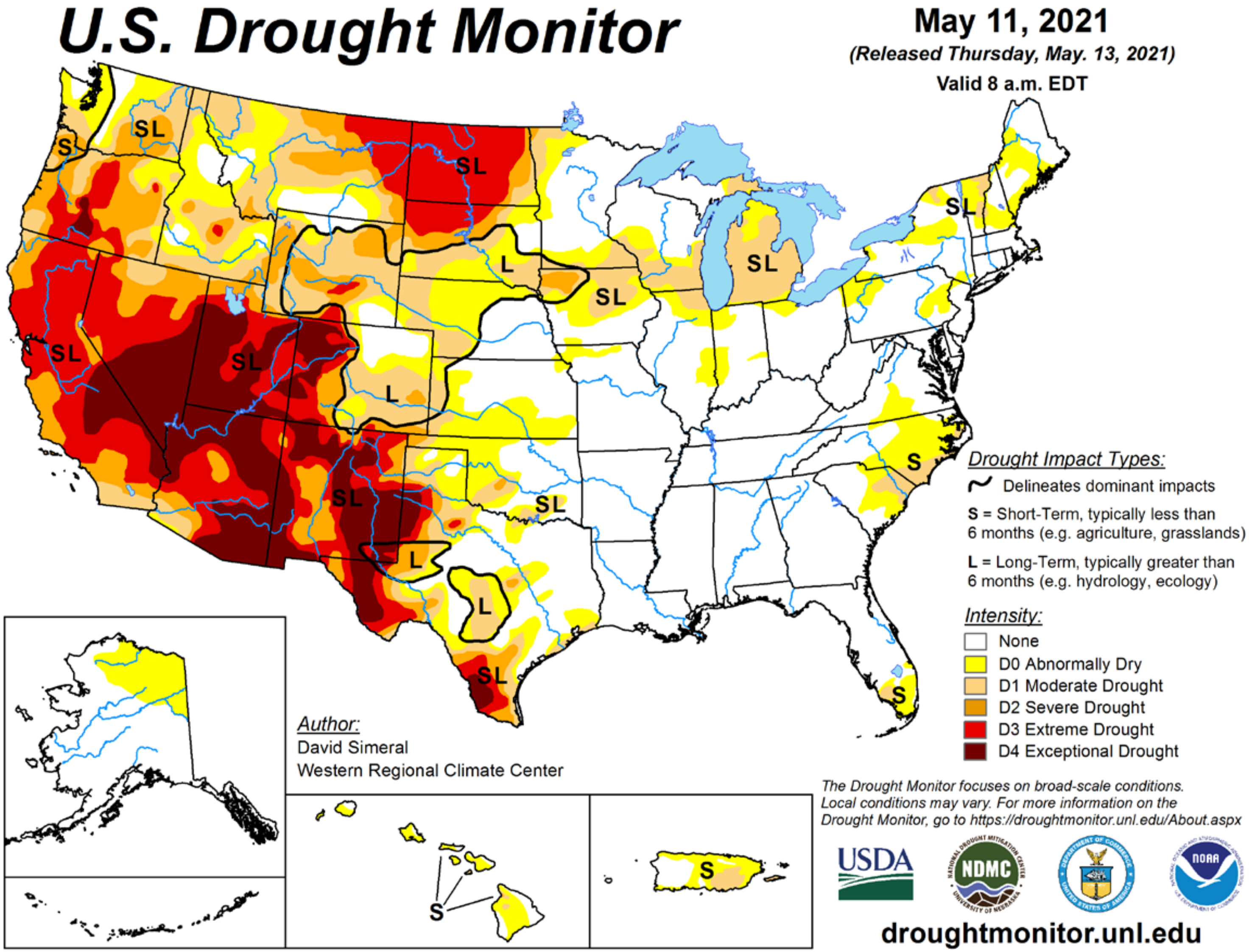
NDSU EXTENSION AGRIBUSINESS
EXTENDING KNOWLEDGE »CHANGING LIVES

Feedlot Margin ($ / head)

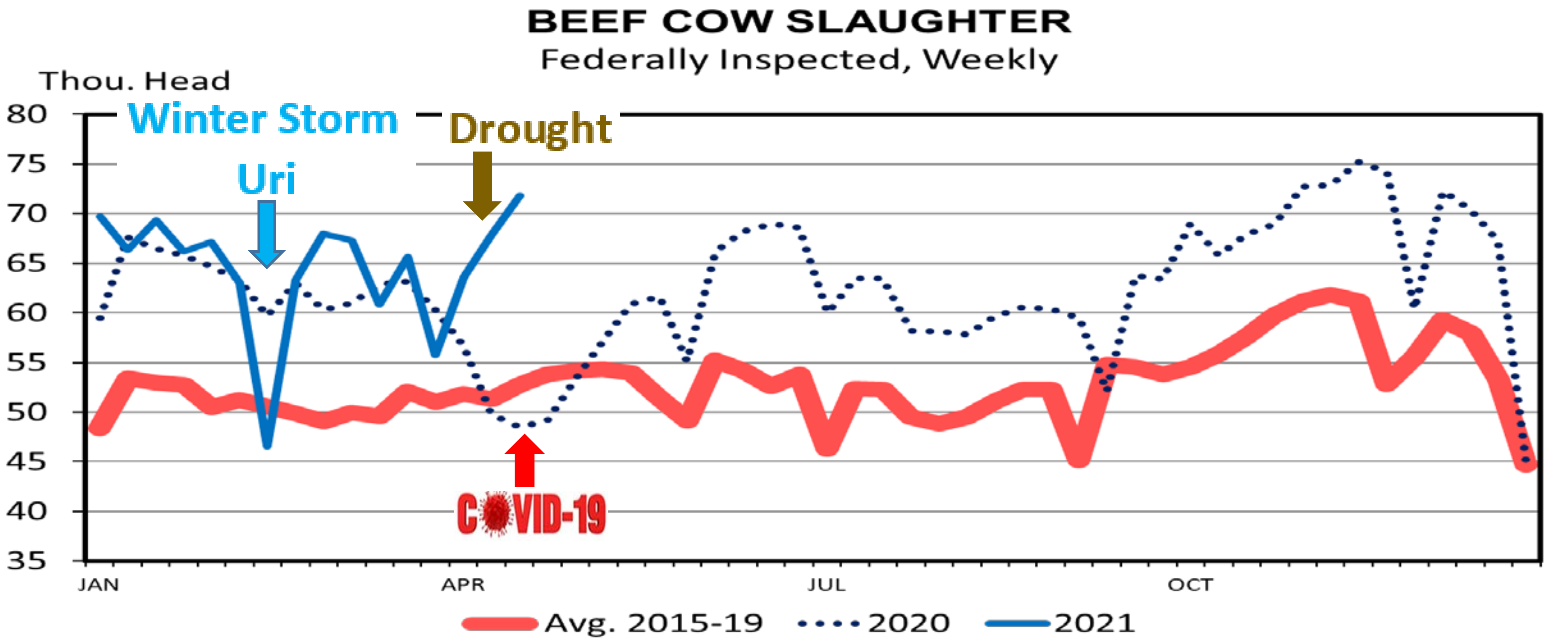
	Week Ending May 7, 2021	Week Ago	Month Ago	Year Ago
Feed Cost ($ / head)				
For this Week's Feedlot Placement	579.09	536.66	466.39	262.20
Calculated Breakeven Price ($ / cwt)				
For this Week's Feedlot Placement	126.45	123.38	122.73	96.23
Relative Feeding Cost (against current Placement week)				
Feeder Steer	59.08%	60.55%	64.37%	70.28%
Feed	36.91%	34.78%	30.08%	16.42%

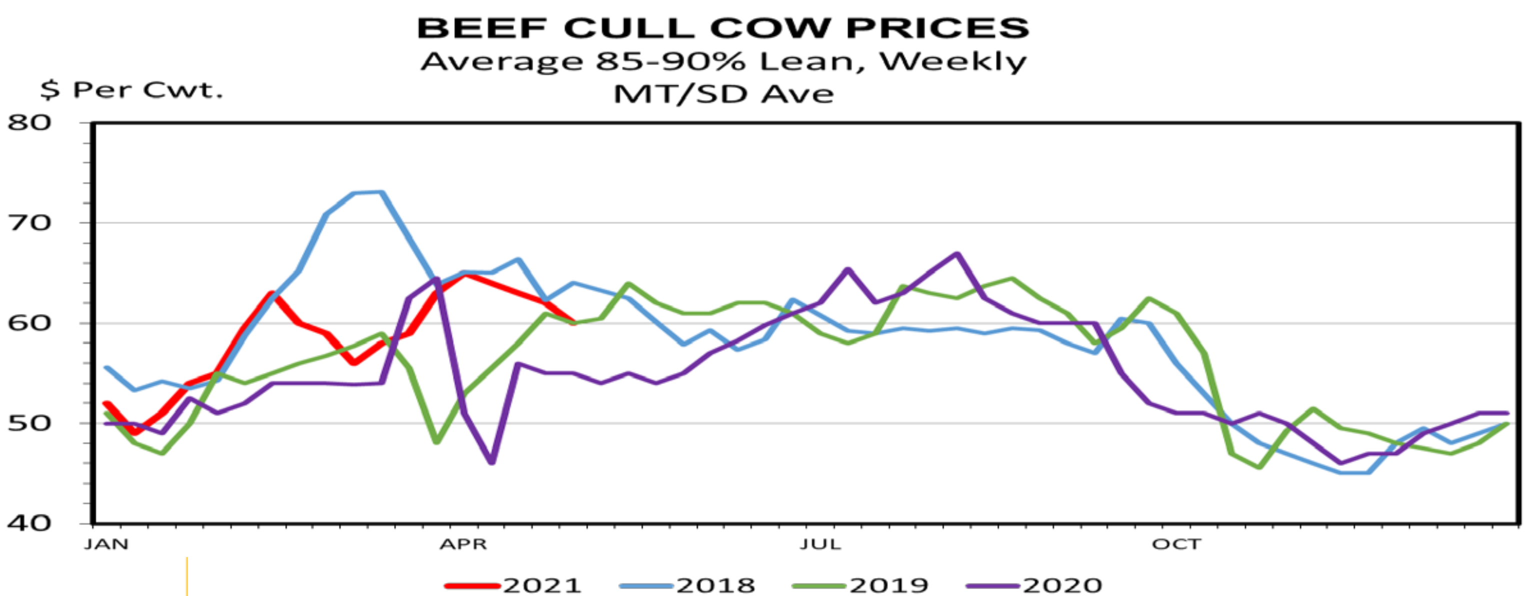
Dec Lv Cat-$130





U.S. Drought Monitor
May 11, 2021
(Released Thursday, May. 13, 2021)
Valid 8 a.m. EDT
SL
S
L
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
David Simeral
Western Regional Climate Center
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
droughtmonitor.unl.edu


BEEF COW SLAUGHTER
Federally Inspected, Weekly
Thou. Head
80
75
70
65
60
55
50
45
40
35
Winter Storm
Uri
Drought
COVID-19
JAN
APR
JUL
OCT
Avg. 2015-19
2020
2021


BEEF CULL COW PRICES
Average 85-90% Lean, Weekly
MT/SD Ave
$ Per Cwt.
80
70
60
50
40
JAN
APR
JUL
OCT
2021
2018
2019
2020

STOCKMENS LIVESTOCK EXCHANGE

Thursday, May 6, 2021

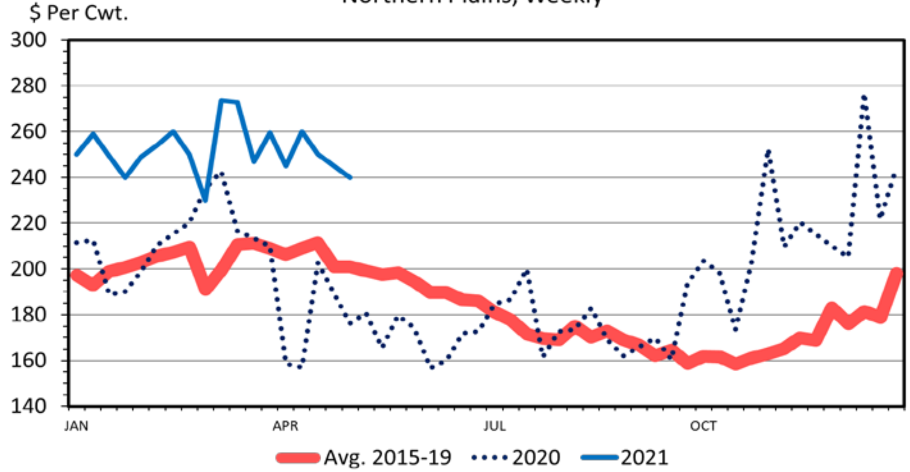
YOUNG COW-CALF PAIRS				
Beulah	15	F1Bwf	2yrs	2,000
Fairfield	32	Black	3-6	1,900
Richardton	15	Blk&Bwf	4-6	1,885
Richardton	13	Black	2&3	1,850
Dickinson	6	Black	2&3	1,835
Manning	5	Blk&Bwf	2yrs	1,835
Belfield	10	Red	2yrs	1,835
Manning	17	Red	2yrs	1,825
Dickinson	8	Black	4-6	1,750
Belfield	9	Black	4-6	1,750
Glenfield	14	Black	2yrs	1,675
Belfield	11	Bwf	4-6	1,675
Belfield	7	Red	3yrs	1,575
Dickinson	7	Black	3&4	1,575
Belfield	9	Red	4-6	1,550
Fairfield	16	Blk&Bwf	4-6	1,525
Dickinson	13	Black	5-9	1,500
Belfield	6	Blk&Bwf	3&4	1,500
Glenfield	4	Red&Blk	4-6	1,475
Gladstone	2	Blk&Bwf	4-6	1,425
Belfield	5	Black	4-6	1,425
Dickinson	5	Red&Blk	4-6	1,425
Dickinson	7	Red&Blk	4-6	1,400
236 Young Cow Calf Pairs Ave. $1720				

SOLID MOUTH PAIRS				
Richardton	11	Black	Solid	1,710
Belfield	11	BlkBwf	Solid	1,550
Dickinson	9	Black	Solid	1,500
Belfield	12	Red	Solid	1,400
Dickinson	12	Red&Blk	Solid	1,400
Gladstone	6	Red&Blk	Solid	1,400
Fairfield	11	Black	Solid	1,325
Williston	4	BlkBwf	Solid	1,325
Dickinson	3	Red&Blk	Solid	1,300
Glenfield	18	Xbred	Solid	1,225
97 Solid Mouth Pairs Ave. $1414				

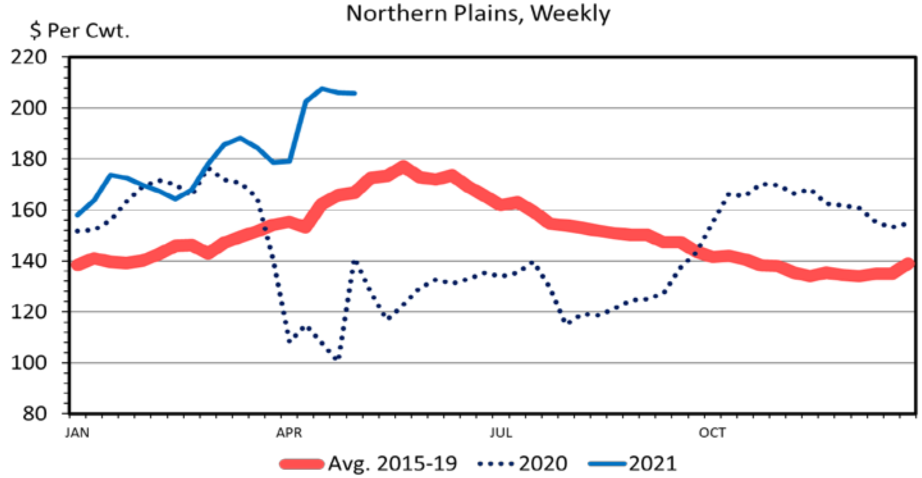
SHORT TERM PAIRS				
Lefor	30	Bwf	S.T.	1,500
Richardton	13	Black	S.T.	1,475
Dickinson	5	Black	S.T.	1,400
Beulah	13	Black	S.T.	1,400
Gladstone	10	BlkBwf	S.T.	1,325
Belfield	8	RedBlk	S.T.	1,250
Fairfield	10	BlkBwf	S.T.	1,200
Dickinson	8	Red	S.T.	1,100
Williston	8	Black	S.T.	1,100
Belfield	6	Black	S.T.	1,050
Glenfield	5	Xbred	S.T.	1,025
116 Short Term Pairs Ave. $1325				

BRED FEMALES				
Golden Valley	2	BlkBwf	3yrs	1,310
Belfield	7	BlkBwf	2&3	1,300
Belfield	2	Black	2yrs	1,300
Belfield	6	Black	3yrs	1,285
Keene	7	Bwf	2yrs	1,275
Belfield	3	Black	4-6	1,260
New England	2	RedBlk	4-6	1,250
Dickinson	3	Red	2yrs	1,225
Golden Valley	2	BlkBwf	2yrs	1,210
Golden Valley	14	BlkBwf	4-6	1,210
Belfield	6	Black	Solid	1,200
Dickinson	3	Red	2&3	1,200
Dickinson	4	Red	3yrs	1,185
Dickinson	2	Red	4-6	1,185
Sentinel Butte	4	Black	4-8	1,160
Halliday	3	BlkBwf	3-5	1,160
Golden Valley	1	Black	2yrs	1,150
Halliday	3	Black	2yrs	1,135
Mott	2	RedBlk	3yrs	1,135
Medora	14	Black	2-7	1,125
Epping	1	Black	3yrs	1,125
Gladstone	3	BlkBwf	3yrs	1,100
New England	3	Black	3yrs	1,100
Dickinson	2	Red	4-6	1,100
Halliday	1	Bwf	S.T.	1,100
Gladstone	4	Black	4-6	1,085
Halliday	5	BlkBwf	4-10	1,085
Beach	13	Black	2yrs	1,075
Belfield	3	Black	4-6	1,075
Belfield	2	Black	4-6	1,060
Dickinson	2	Black	3-6	1,060
Dickinson	4	Red	4-6	1,060
Dickinson	3	Red	Solid	1,060
Dickinson	4	Black	4-7	1,060
Dickinson	1	Black	Solid	1,060
Gladstone	3	RwfBwf	4-6	1,050
Gladstone	4	Black	Solid	1,050
Richardton	1	Black	Solid	1,050
Belfield	1	BlkBwf	S.T.	1,050
Belfield	4	Black	Solid	1,035
Dickinson	2	Red	S.T.	1,035
Mott	2	Black	4yrs	1,025
Belfield	2	Black	Solid	1,010
Beach	4	Black	4-6	1,000
Golva	1	Bwf	Solid	1,000
Golden Valley	4	RedBlk	Solid	1,000
Golva	1	Black	3yrs	985
Dickinson	6	Red	S.T.	975
Belfield	2	Black	8-10	960
Dickinson	4	BlkBwf	Solid	960
Golva	1	Bwf	3yrs	935
Sentinel Butte	6	Black	S.T.	925
Dickinson	1	Red	S.T.	900
Belfield	1	Black	Solid	850
Dickinson	2	Red	S.T.	775

FEEDER LAMB PRICES
Northern Plains; Weekly



SLAUGHTER LAMB PRICES
Northern Plains, Weekly



BOWMAN AUCTION MARKET

MONDAY, MAY 10, 2021

EWES				
TOWN	#	DESCRIP	WGHT	PRICE
Bowman	4	cull	200	99.00
Ludlow, SD	26	cull	164	88.00
Scranton	2	cull	178	86.00
Bowman	11	cull	181	79.00
Ralph, SD	8	cull	151	79.00
Buffalo, SD	9	cull	166	79.00
Sentinel Butte	60	cull	178	77.00
Ekalaka, MT	14	cull	195	77.00
Ludlow, SD	2	cull	103	76.00
Scranton	2	cull	143	75.00
Scranton	16	cull	179	75.00

Marketing Options: Bismarck Livestock Auction, sheep & goat sale, Thursday, May 13th. Kist Livestock Auction, sheep & goat sale, Friday, May 14th and June 25th. Bowman Livestock Auction, sheep sale, Monday, May 24th. Perham Stockyards, sheep & goat sale, Monday, May 17th, and June 21st. Sisseton Livestock Auction, sheep sale, Thursday, May 13th, 20th, and 27th. Hub City Livestock Auction, Aberdeen, sheep sale, Tuesday, May 18th and 25th. Newell Sheepyards, sheep & goat sale, Thursday, May 13th, 20th, and 27th.

Livestock Forage Program

Ron Haugen

Extension Farm Management Specialist

701-231-8103

ronald.haugen@ndsu.edu

Livestock Forage Program

The Livestock Forage Disaster Program (LFP) provides payments to eligible livestock owners and contract growers who have covered livestock and produce grazed forage crop acreage that has suffered a loss of grazed forage due to a qualifying drought during the normal grazing period for the county.

Livestock Forage Program

The LFP also provides payments to eligible livestock owners or contract growers who are producers of grazed forage crop acreage on rangeland managed by a federal agency if the eligible livestock producer is prohibited by the federal agency from grazing the normal permitted livestock on the managed rangeland due to a qualifying fire.

Eligible livestock are grazing animals that satisfy the majority of net energy requirement of nutrition via grazing of forage grasses or legumes and include such species as alpacas, beef cattle, buffalo/bison, beefalo, dairy cattle, deer, elk, emus, equine, goats, llamas, reindeer and sheep. Within those species, animals that are eligible include those that are or would have been grazing the eligible grazing land or pastureland:

- During the normal grazing period for the specific type of grazing land or pastureland for the county
- When the federal agency prohibited the livestock owner or contract grower from having livestock graze the normally permitted livestock on the managed rangeland due to fire

An eligible livestock owner or contract grower who, as a grazed forage crop producer, owns or leases grazing land or pastureland physically located in a county rated by the U.S. Drought Monitor as having a:

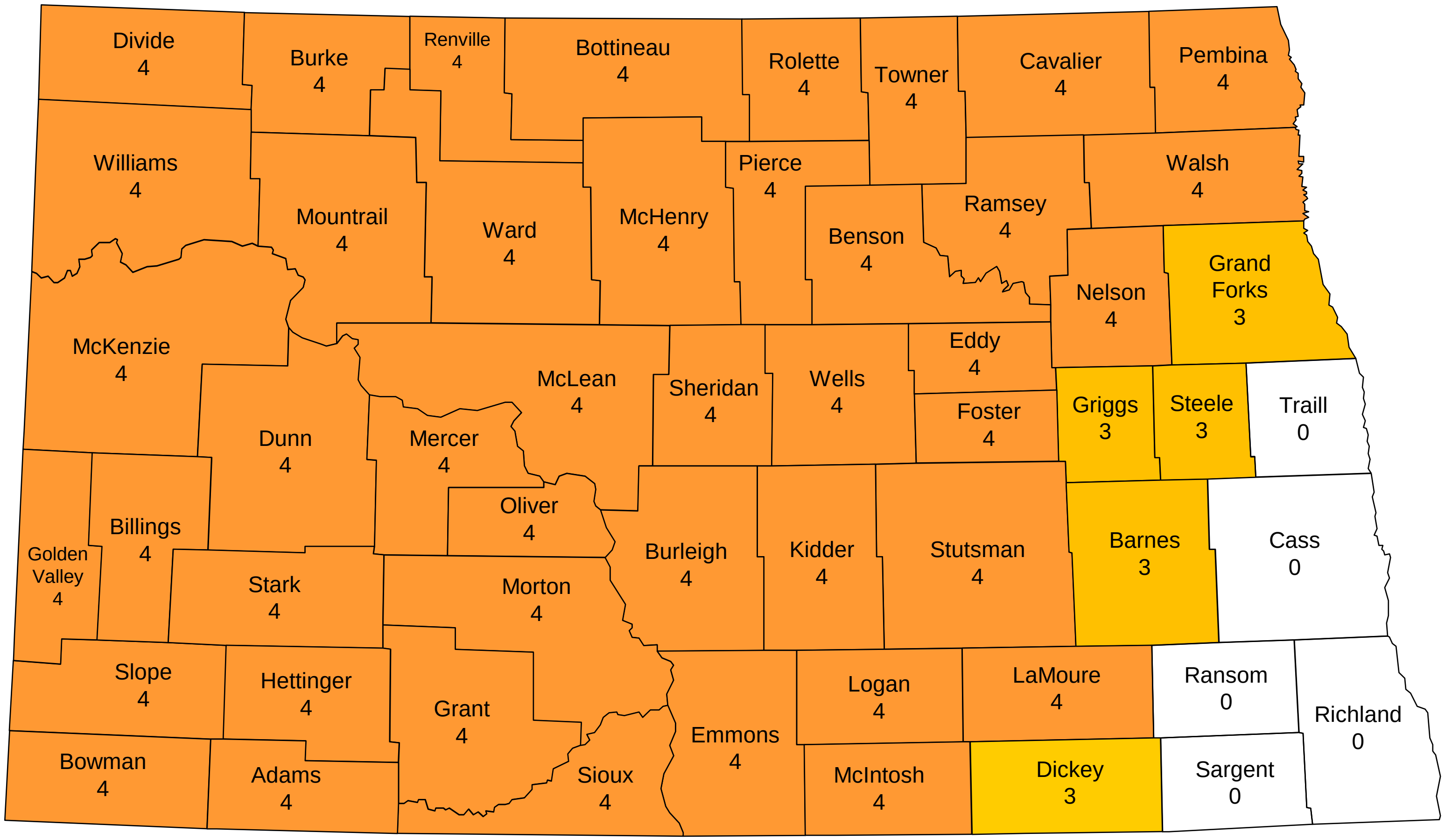
D2 (severe drought) intensity in any area of the county for at least eight consecutive weeks during the normal grazing period is eligible to receive assistance in an amount equal to **one** monthly payment

D3 (extreme drought) intensity in any area of the county at any time during the normal grazing period is eligible to receive assistance in an amount equal to **three** monthly payments

D3 (extreme drought) intensity in any area of the county for at least four weeks during the normal grazing period or is rated a D4 (exceptional drought) intensity at any time during the normal grazing period is eligible to receive assistance in an amount equal to **four** monthly payments

D4 (exceptional drought) in a county for four weeks (not necessarily four consecutive weeks) during the normal grazing period is eligible to receive assistance in an amount equal to **five** monthly payments

LFP MONTHLY PAYMENTS 5-13-21



0 1 3 4 5

NDSU EXTENSION AGRIBUSINESS

NDSU has an LFP spreadsheet tool available online for producers to enter their information. It is at:

https://www.ag.ndsu.edu/farmmanagement/tools

Identification

Operator	Joe Rancher
State	North Dakota *<--required*
County eligible	Burleigh ND *<--required*

Livestock Current Year Inventory*

Livestock Type & Weight Range		Number of Head	Share (%)	One Mo. Pmt Rate per Hd	Total Monthly Feed Cost
Beef, Beefalo, Buffalo, Bison	Adult	100	100%	31.18	3,118.00
	Non-Adult 500 lb or more	50	100%	23.38	1,169.00
Dairy	Adult		100%	81.07	0.00
	Non-Adult 500 lb or more		100%	23.38	0.00
All Sheep, Goats & Deer			100%	7.79	0.00
All Equine			100%	23.07	0.00
All Elk			100%	16.84	0.00
All Reindeer			100%	6.87	0.00
All Alpacas			100%	25.68	0.00
All Emus			100%	15.76	0.00
All Llamas			100%	11.38	0.00
A) Total monthly feed cost, with payment rate, for all livestock					**4,287.00**

*Inventory during the 60 days prior to date of qualifying drought

Forage Information - Owned or Cash Leased Land in Burleigh ND County

Note: This Table Is Not Valid For All Forage Types

Pasture Type	Acres	Acres per Animal Unit (AU)	Maximum AU Capacity	Monthly Value of Forage	Mo. Feed Cost at Capacity
Native	1,100	9.0	122.22	31.18	3,810.82
Improved*	200	4.0	50.00	31.18	1,559.00
B) Total monthly feed cost at maximum carrying capacity					**5,369.82**

*Improved pastureland with permanent vegetative cover.

LFP Payment Estimate

Lesser of A) and B)	4,287.00
National Payment Factor	60%
Payment (based on one mo. cost of feed or value of carrying capacity)	2,572.20
No. of monthly payments based on drought monitor	4
Payment before sequestration	10,288.80
Estimated percent reduction for sequestration	5.7%
Estimated LFP payment*	**9,702.34**

*Note: this estimate does not apply to scenarios underlined in the above introduction.
Actual payment may vary due to operators' grazing practices.

- NDSU and its entities makes no warranties, either expressed or implied, concerning this program -

Contact your local FSA Office for further details

Energy Situation

David Ripplinger

Bioproducts/Bioenergy Economics Specialist

701-231-5265

david.ripplinger@ndsu.edu

ADM Spiritwood Announcement

$350 million soybean crush plant

150,000 bushel per day capacity

@ 33.5 bushels/acre average (2020 ND average)

1.6 million acres (out of 5.7 million – 2020)

Will send vegetable oil to Marathon Dickinson (12,000 bbls/day) which is the second largest renewable diesel plant in the country.

Expects to receive soybeans in 2023.

ADM Spiritwood Announcement

Why this makes sense/$

Growth in ND soybean acres

Growth in global plant protein demand

Optionality

Renewable Diesel/US Vegetable Oil


Soybean Oil Aug '22 (ZLQ22)
54.01 -0.16 (-0.30%) 09:24 CT [CBOT]
53.02 x 1
53.17 x 1
INTERACTIVE CHART for Thu, May 13th, 2021
ZLQ22
GO
+Study
Tools
Settings
Compare
f(x)
Grid View
Templates
Print
Clear
Range: 1D 5D 1M 3M 6M 9M 1Y 2Y 3Y 5Y 10Y 20Y MAX
Frequency: Daily
1Y
Date:
tutorial
55.00
54.01
50.00
45.00
40.00
35.00
30.00
891
500
54
Jun '20
Jul '20
Aug '20
Sep '20
Oct '20
Nov '20
Dec '20
Jan '21
Feb '21
Mar '21
Apr '21
May '21

Renewable Diesel v. Biodiesel

Renewable diesel and biodiesel are not the same thing. They both use vegetable oil/animal fat/oil/grease, but they are produced used different methods and the resulting output is different.

Renewable diesel is made using **hydrotreating**. This is the same method used by petroleum refineries and is complex and expensive.

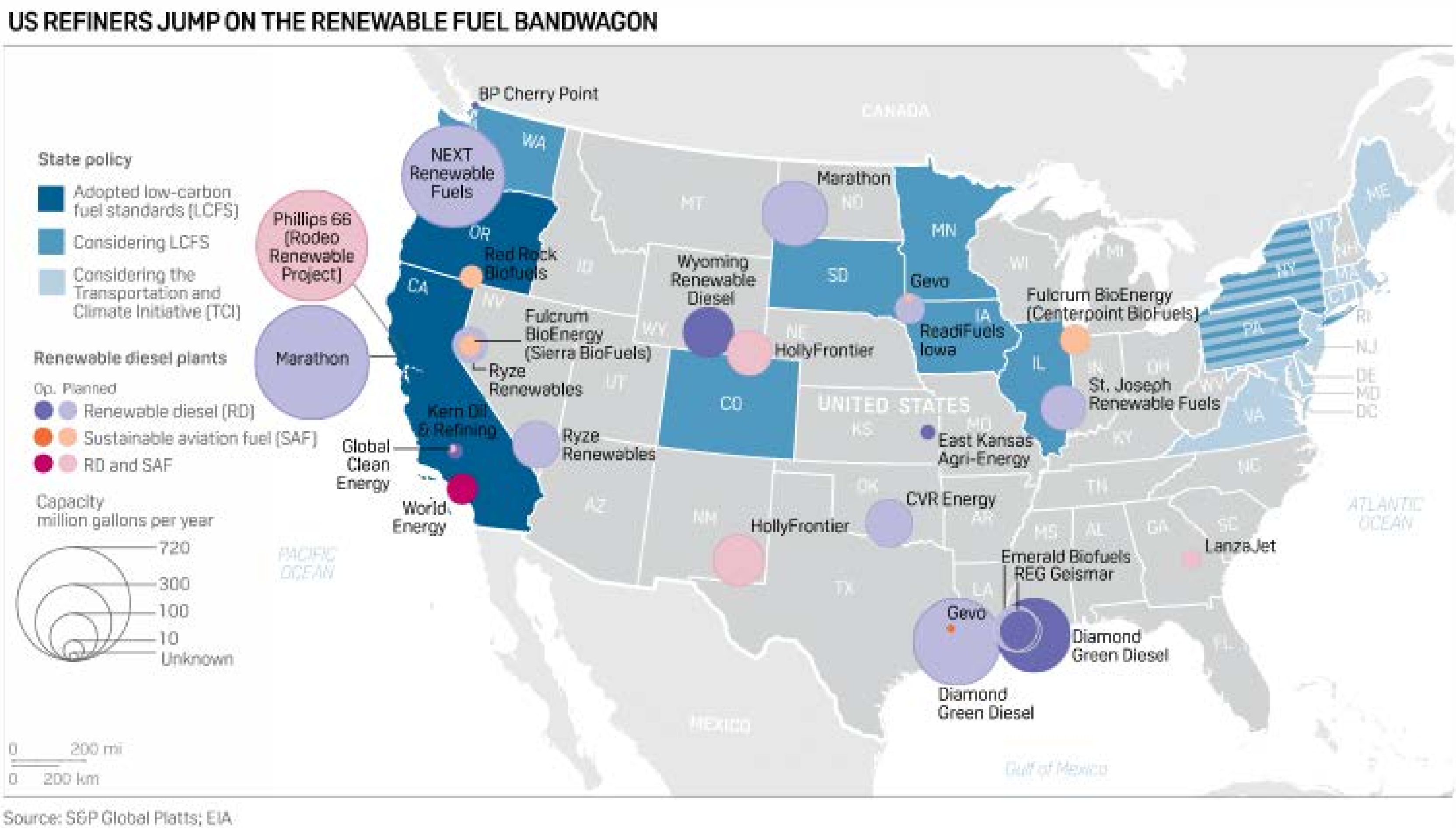
Biodiesel is made by **transesterification** which is pretty basic.

Renewable diesel meets the diesel spec.

Biodiesel meets the biodiesel spec.

Both are extremely low-carbon fuels.

Renewable Diesel Expansion

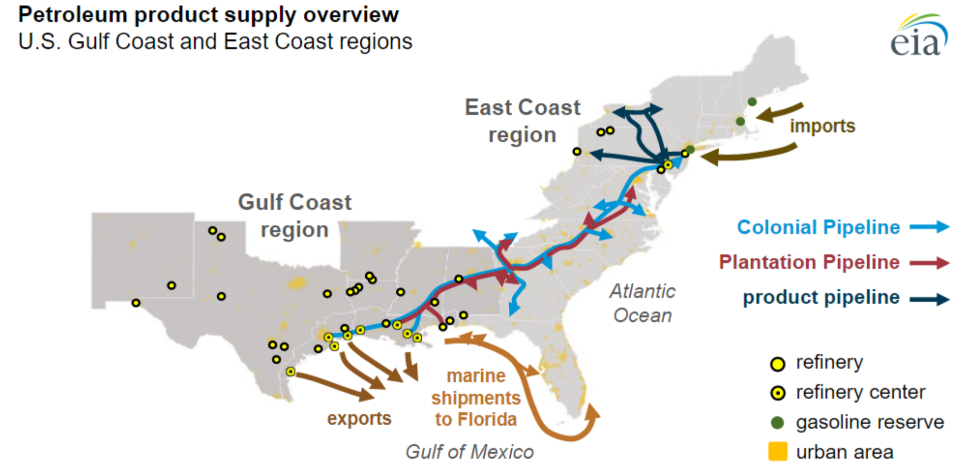


NDSU EXTENSION AGRIBUSINESS

Colonial Pipeline Shutdown

Ransomware attack led to shutdown of Colonial Pipeline that carries product from the Houston to NY Harbor

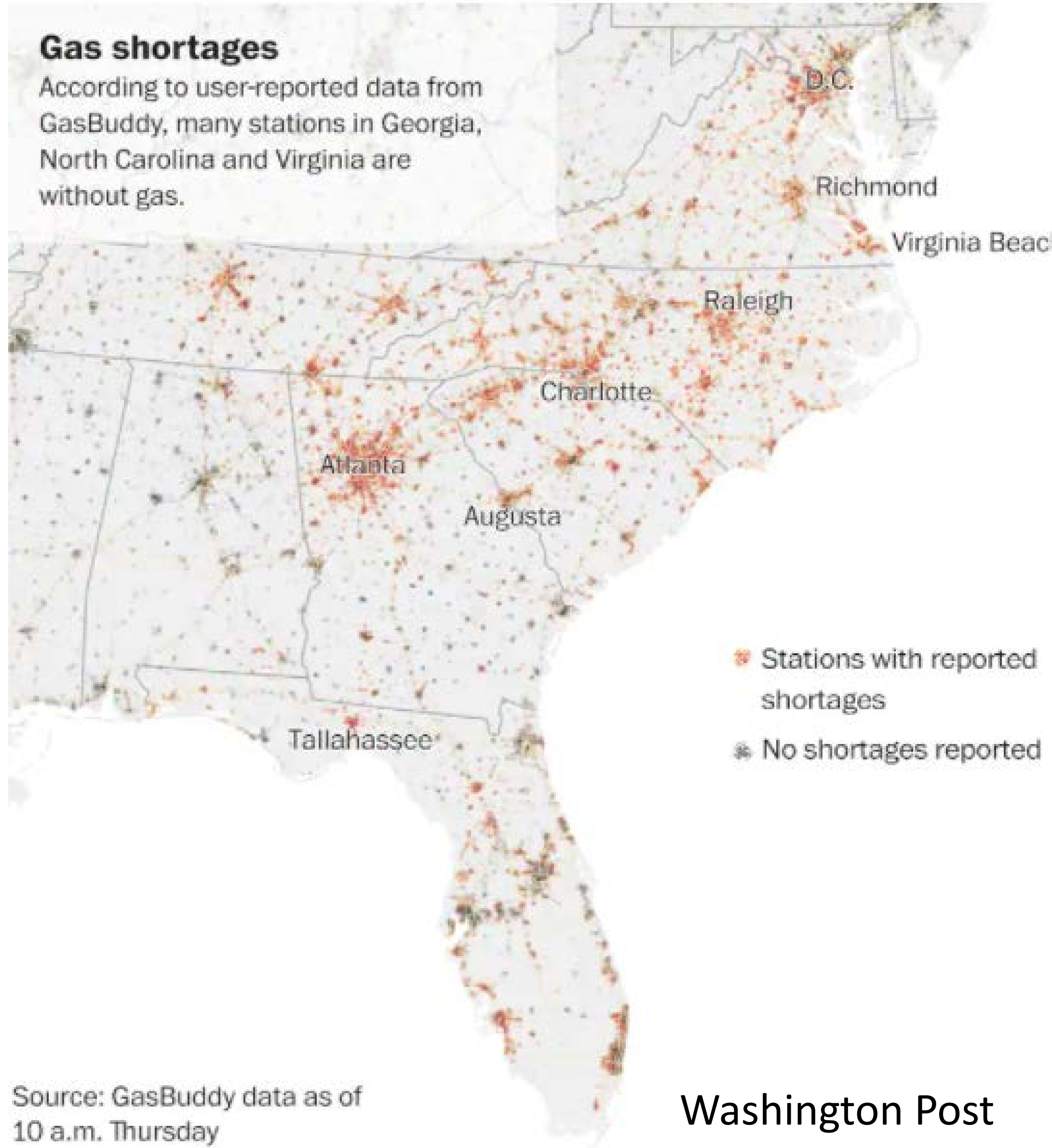
Carries more than two million barrels of gas, diesel, jet, and heating oil (~10% of US use)



Source: U.S. Energy Information Administration, *East Coast and Gulf Coast Transportation Fuels Markets*
Note: Map updated to reflect changes in U.S. refineries since initial report.

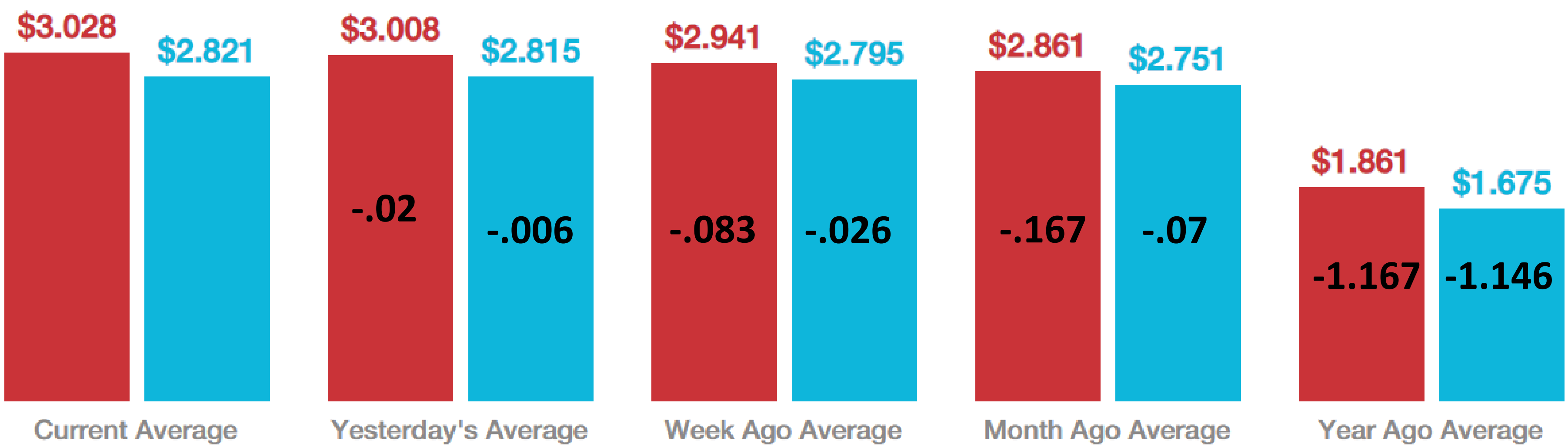
Run on gasoline, shortages across the southeast.

Ransom has been paid. $5 million.



Washington Post

National/ND
Regular Gasoline Prices



Source: AAA, May 13th

North Carolina Gasoline Prices

	Regular	
Current Avg.	$2.882	
Yesterday Avg.	$2.850	
Week Ago Avg.	$2.704	$.178 over last week
Month Ago Avg.	$2.625	$.257 over last month
Year Ago Avg.	$1.698	

Source: AAA, May 13th

Please use the Q&A tool to ask questions

The next webinar is scheduled for 1 pm CT Thursday, June 10th

For the slides and recording of this webinar please visit ag.ndsu.edu/farmmanagement/outlook