



# ND LIVESTOCK OUTLOOK

## STATE OF THE ECONOMY

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[www.ndsu.edu/livestockeconomics](http://www.ndsu.edu/livestockeconomics)

NOV 18, 2020

**Agribusiness and  
Applied Economics**

EXTENDING KNOWLEDGE >> CHANGING LIVES

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# STATE OF THE ECONOMY

## USDA United States Department of Agriculture Economic Research Service

North Dakota Annual cash receipts by commodity 2019



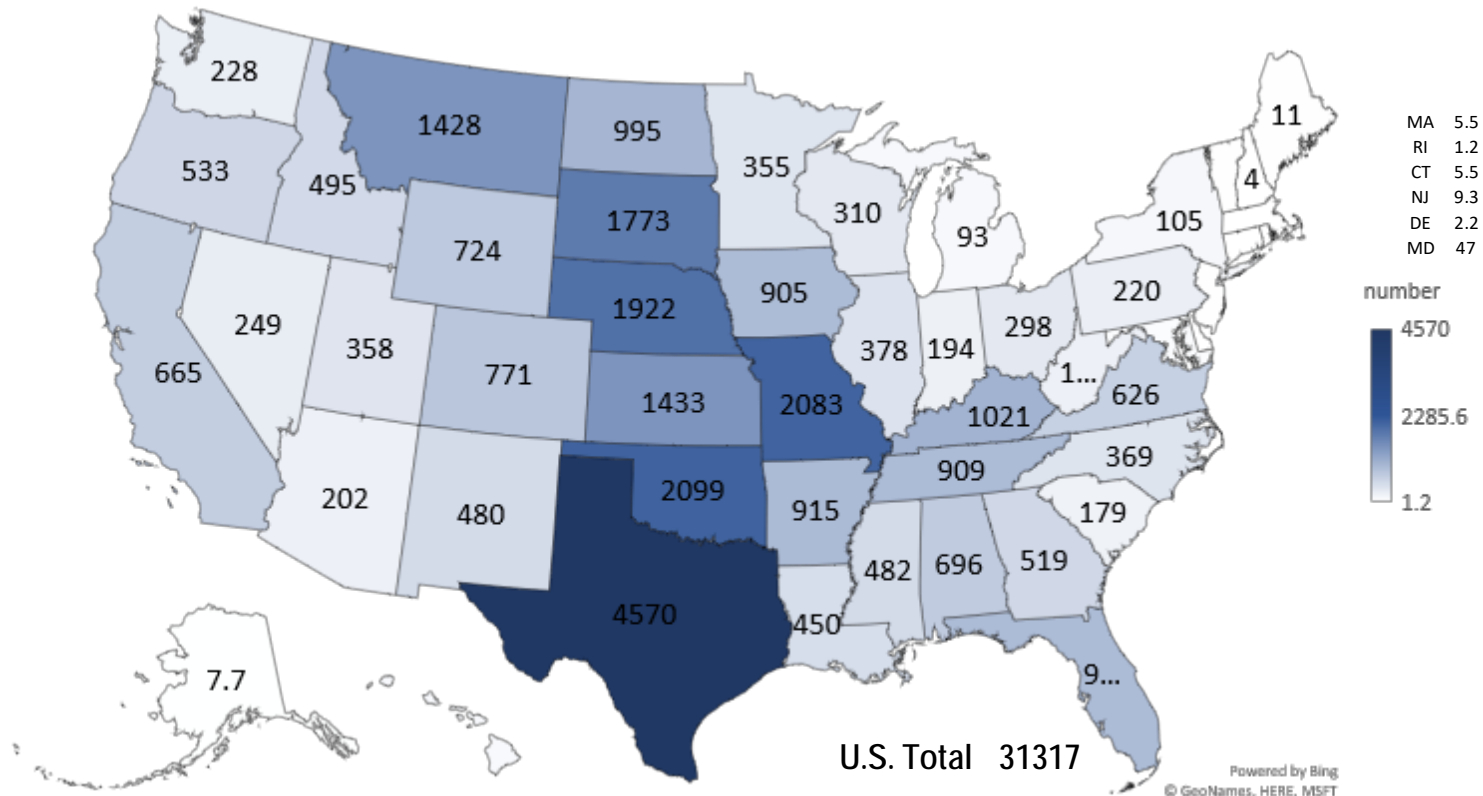
Rank	Commodity	State receipts	Share of State receipts
		\$1,000	Percent
	All commodities	7,410,717	100.0
	Animals and products	1,198,659	16.2
	Crops	6,212,058	83.8
1	Soybeans	1,658,191	22.4
2	Wheat	1,547,569	20.9
3	Corn	1,371,027	18.5
4	Cattle and calves	983,424	13.3
5	Canola	458,542	6.2
6	Dry beans	214,110	2.9
7	Potatoes	211,633	2.9
8	Sugar beets	192,592	2.6
9	Sunflower	137,053	1.8
10	Barley	126,462	1.7
11	Hay	91,354	1.2
12	Dry peas	85,062	1.1
13	Dairy products, Milk	62,595	0.8
14	Hogs	60,584	0.8
15	Honey	47,320	0.6
16	Flaxseed	42,976	0.6
17	Miscellaneous crops	34,144	0.5
18	All other animals and products	27,869	0.4
19	Lentils	13,689	0.2
20	Oats	13,555	0.2
21	Chicken eggs	12,607	0.2
22	Rye	10,441	0.1
23	Turkeys	3,622	0.0
24	Mustard seed	2,299	0.0
25	Safflower	1,158	0.0
26	Wool	628	0.0
27	Rapeseed	200	0.0
28	Farm chickens	5	0.0
29	Mohair	5	0.0



## STATE North Dakota Livestock Numbers

- ND is 9<sup>th</sup> largest beef cow state
- ND beef cows increased 20,000 head in 2019 while neighboring MN, MT, SD declined
- ND beef cows increased 126,000 head 2010-2020
- ND total cattle numbers up 70,000 head 2019 to 2020
- ND breeding hogs similar to neighboring MT and WY but less than Corn Belt states
- ND breeding ewes increased 13.9% during 2019-the largest % increase in the US, while neighboring states declined

# BEEF COWS THAT CALVED JANUARY 1, 2020 (1000 Head)



Livestock Marketing Information Center  
Data Source: USDA-NASS

01/31/20

(1000 Head)

U.S. Total -374

State	Change (1000 Head)
VT	-1
NH	0
MA	-1.5
RI	-0.2
CT	1
NJ	-0.2
DE	0.2
MD	-3
VT	-1
NH	0
MA	-1.5
RI	-0.2
CT	1
NJ	-0.2
DE	0.2
MD	-3

(1000 Head)

VT  
NH  
MA  
RI  
CT  
NJ  
DE  
MD

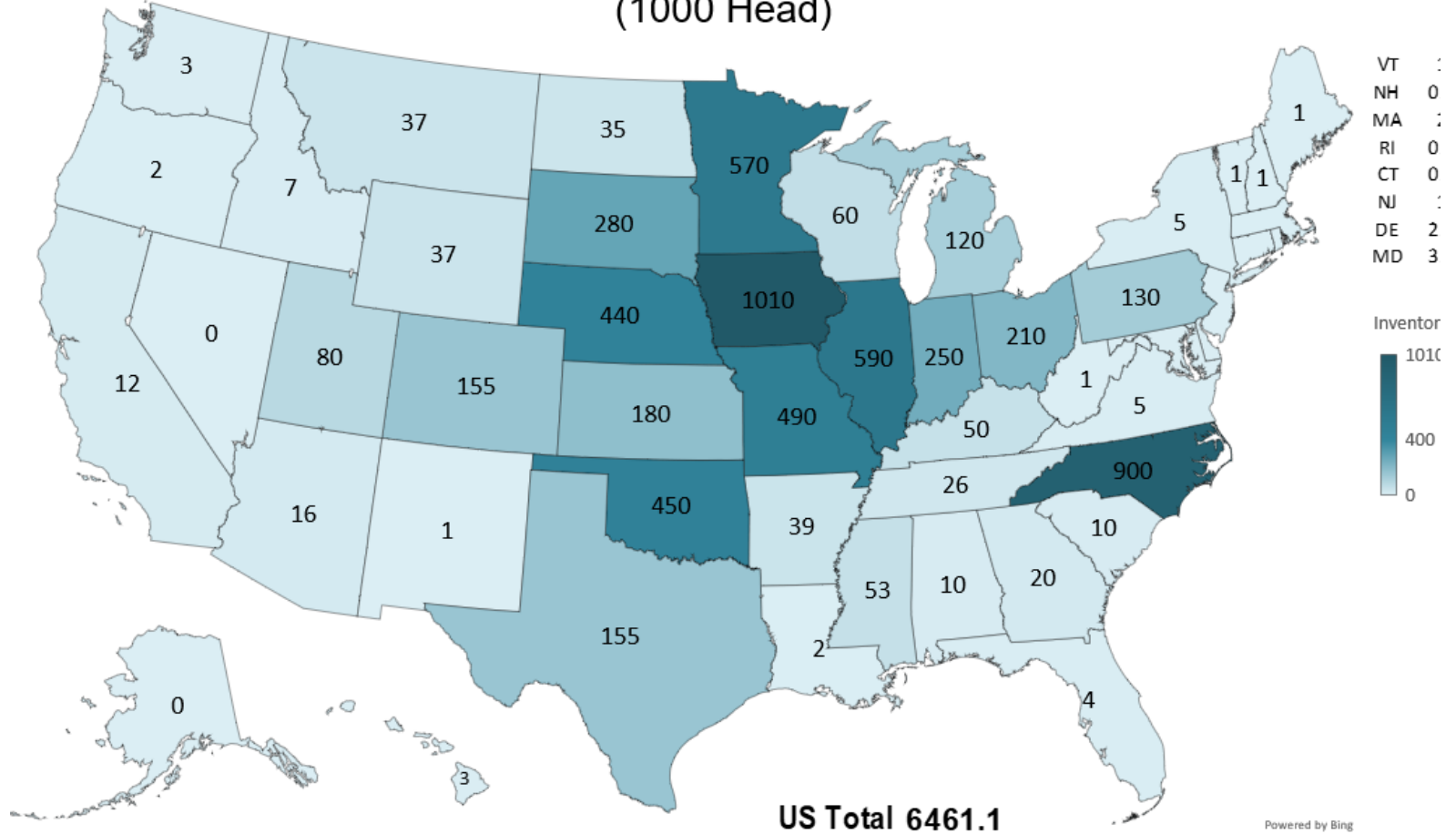
change  
14  
0  
-50

U.S. Total -123

Powered by Blaz

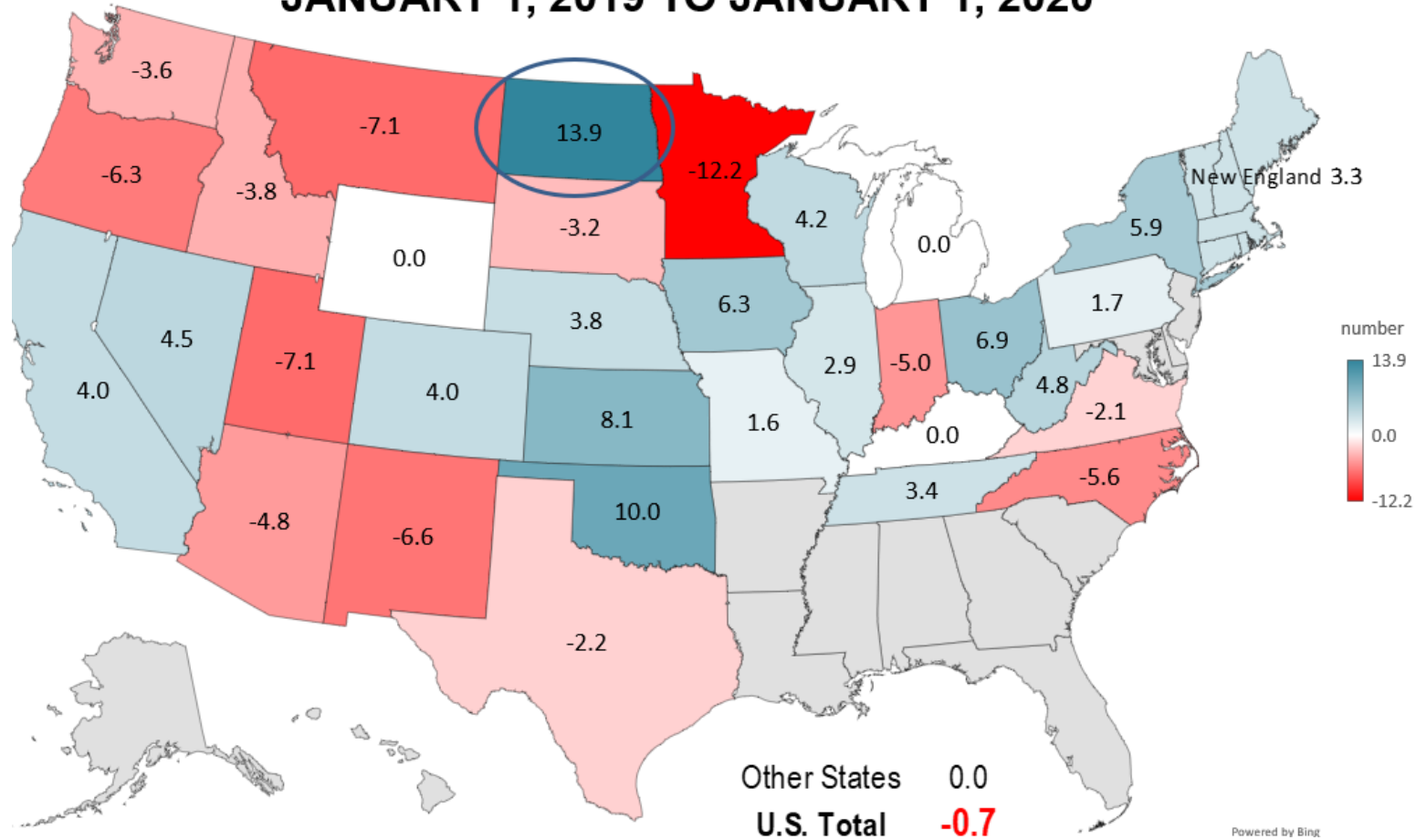
# DECEMBER 1 BREEDING HOGS AND PIGS 2019

(1000 Head)





## % CHANGE BREEDING EWES - ONE YEAR & OLDER JANUARY 1, 2019 TO JANUARY 1, 2020



# World Agricultural Supply and Demand Estimates

## U.S Meat Production and Prices

	2014	2015	2016	2017	2018	2019	2020 Forecast	2021 Forecast
<b>Production</b>	<i>Billion Pounds</i>		<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Beef	24.25	23.70	25.22	26.19	26.87	27.15	27.22	27.37
Pork	22.84	24.50	24.94	25.58	26.31	27.64	28.18	28.49
Broilers	38.55	40.05	40.7	41.66	42.60	43.91	44.71	45.10
Turkey	5.76	5.63	5.98	5.98	5.88	5.82	5.74	5.77
Total meat	92.17	94.63	97.6	100.17	102.43	105.26	106.61	107.47
<b>Prices</b>	<i>Dollars/cwt</i>		<i>Dollars/cwt.</i>				<i>Dollars/cwt.</i>	
Steers	154.56	148.12	120.85	121.52	117.12	116.78	108.71	114
Hogs	76.03	50.23	46.16	50.48	45.93	47.95	43.00	46.50
	<i>Cents/lb.</i>		<i>Cents/lb.</i>			<i>Cents/lb.</i>	<i>Cents/lb.</i>	
Broilers	104.9	90.5	84.3	93.5	97.8	88.6	71.8	78.80
Turkey	107.6	116.2	117.1	96.1	80.2	89.2	106.4	105.5

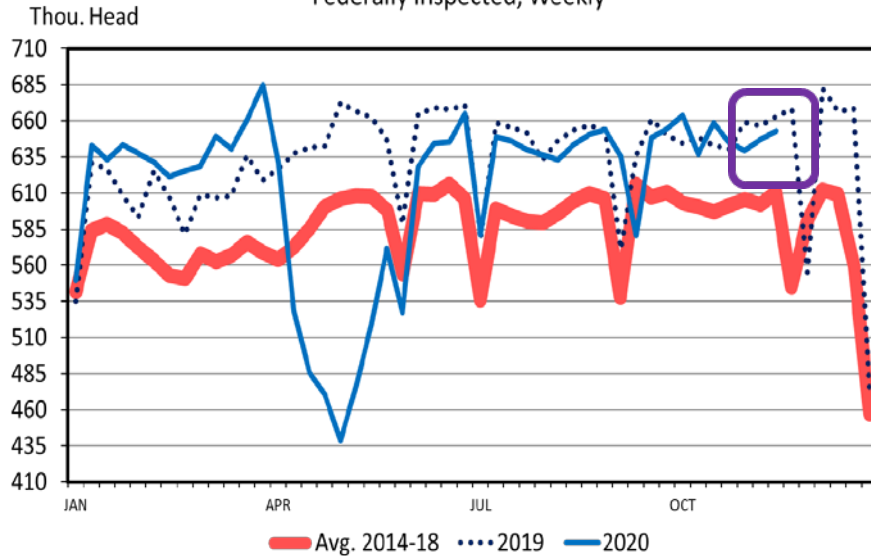
 record high

November 10, 2020

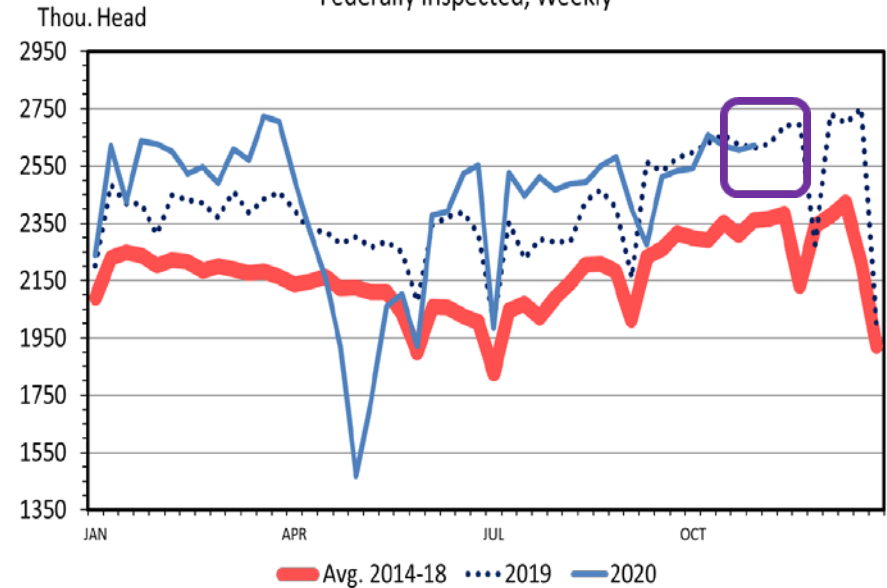


# COVID-19 CHAOS TO NORMAL?

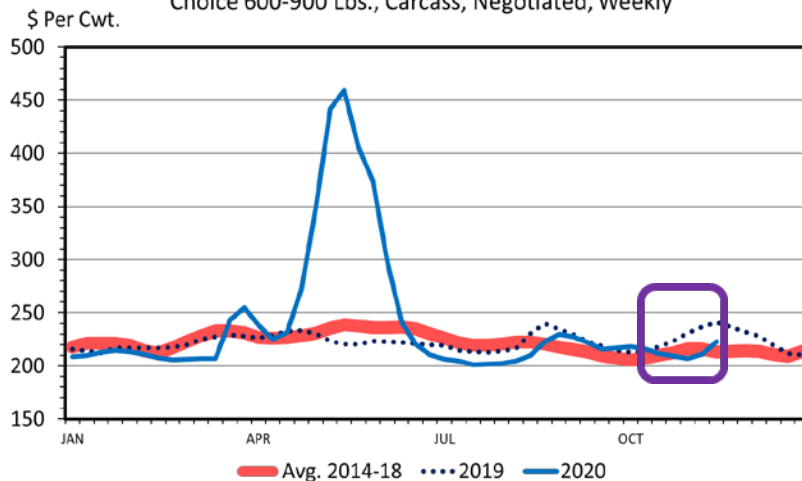
**CATTLE SLAUGHTER**  
Federally Inspected, Weekly



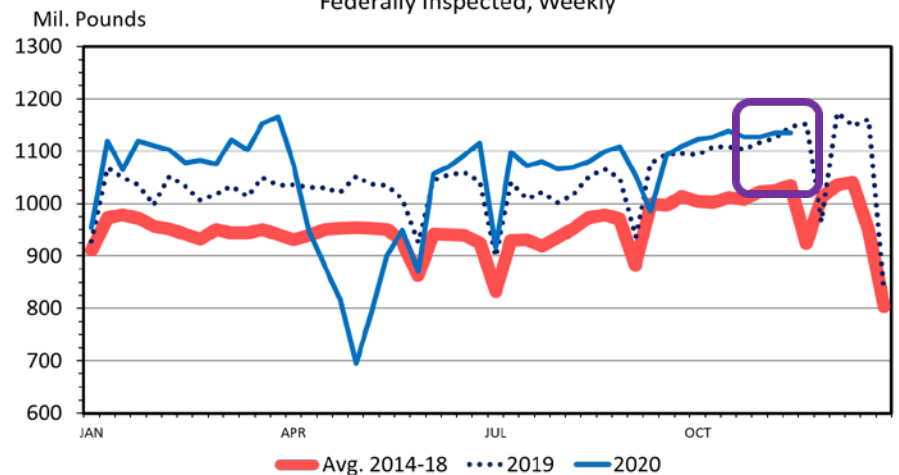
**BARROW AND GILT SLAUGHTER**  
Federally Inspected, Weekly



**BOXED BEEF CUTOUT VALUE**  
Choice 600-900 Lbs., Carcass, Negotiated, Weekly



**TOTAL RED MEAT PRODUCTION**  
Federally Inspected, Weekly



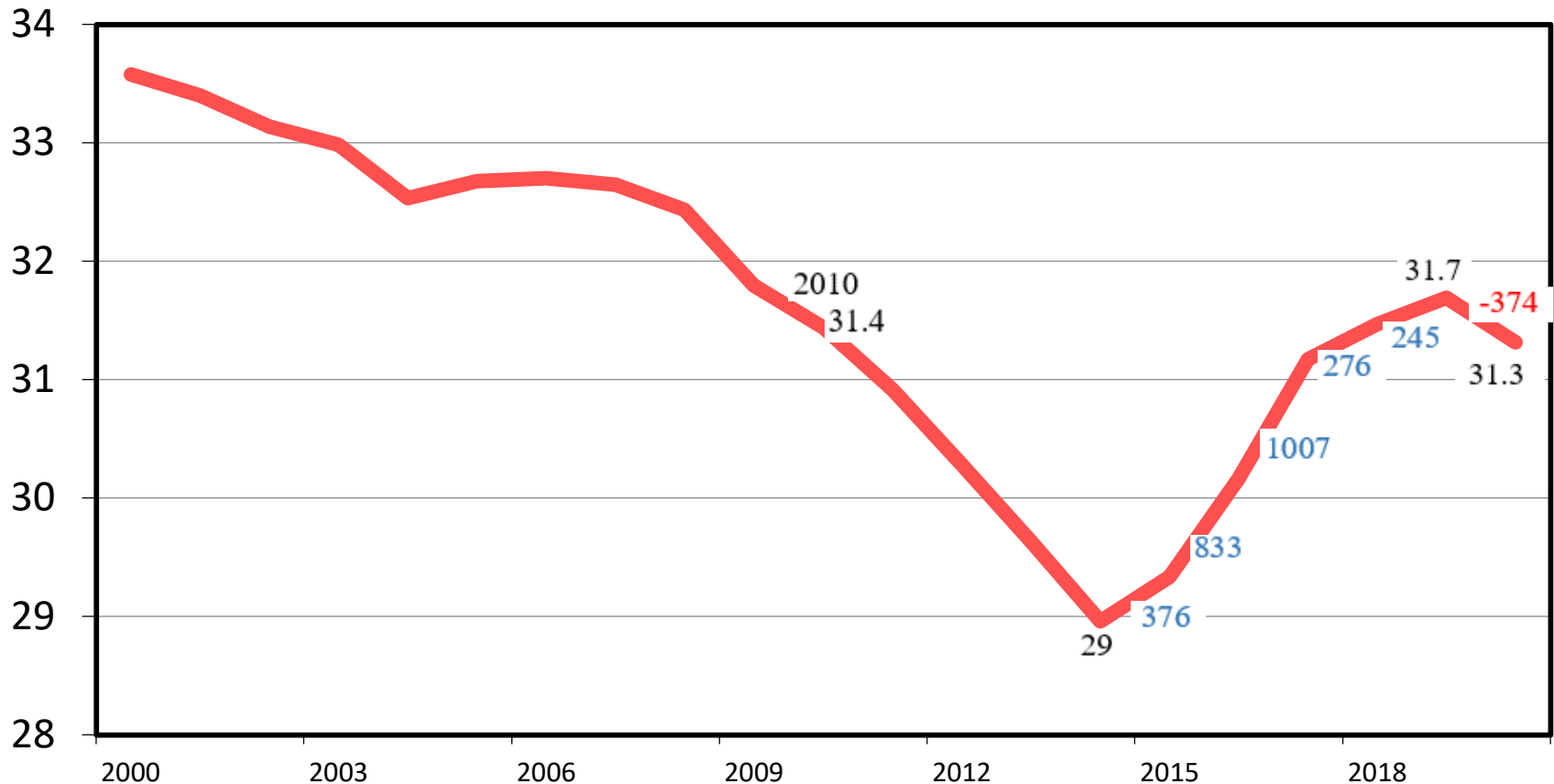


United States Department of Agriculture  
National Agricultural Statistics Service

# JANUARY 1 BEEF COW INVENTORY

## U.S., Annual

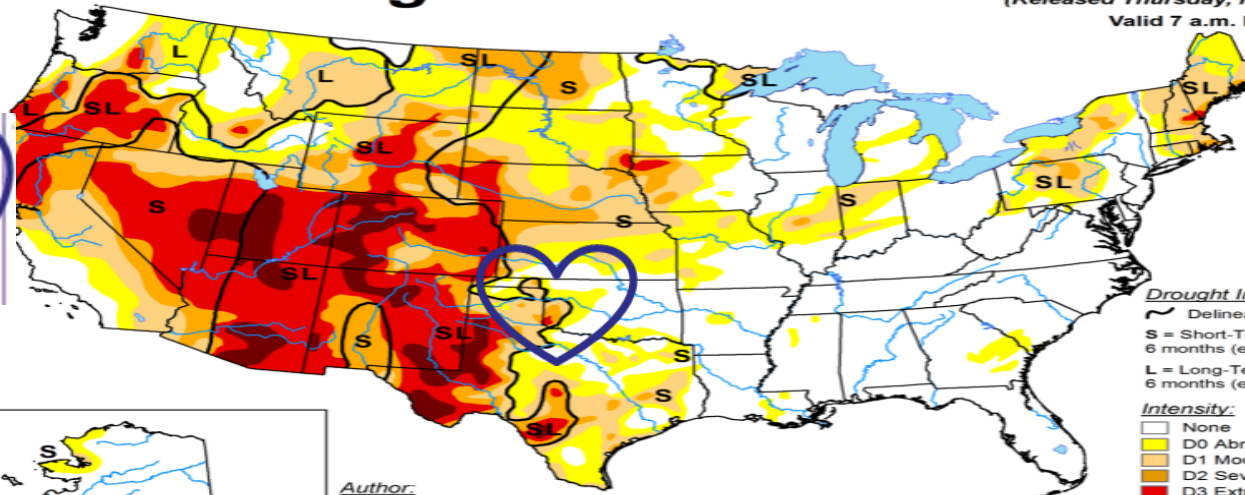
Mil. Head



# U.S. Drought Monitor

November 10, 2020  
(Released Thursday, Nov. 12, 2020)

Valid 7 a.m. EST

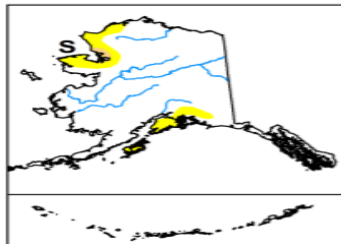


## Drought Impact Types:

- ~ 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:  
Richard Tinker  
CPC/NOAA/NWS/NCEP



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](https://droughtmonitor.unl.edu)

## U.S. Cattle Areas Experiencing Drought

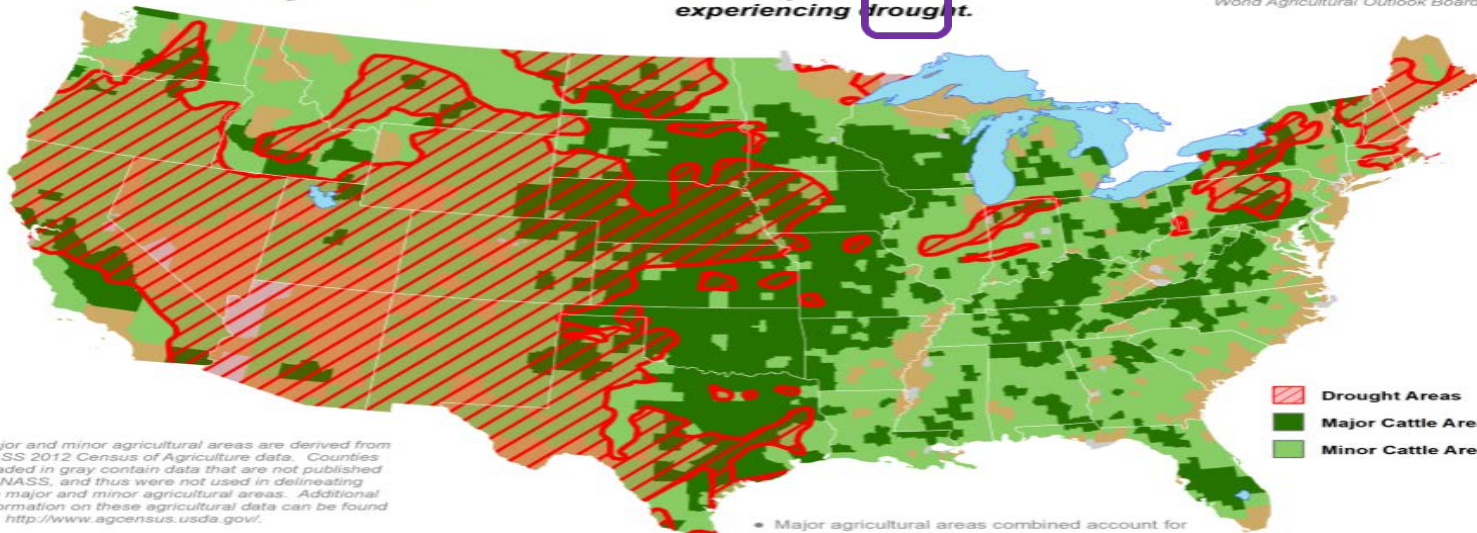
Reflects November 10, 2020  
U.S. Drought Monitor data

Approximately **42%** of cattle inventory is within an area experiencing drought.



United States  
Department of  
Agriculture

This product was prepared by the  
USDA Office of the Chief Economist  
World Agricultural Outlook Board

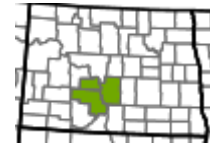


Major and minor agricultural areas are derived from NASS 2012 Census of Agriculture data. Counties shaded in gray contain data that are not published by NASS, and thus were not used in delineating the major and minor agricultural areas. Additional information on these agricultural data can be found at: <http://www.agcensus.usda.gov/>

• Major agricultural areas combined account for 75% of the total national inventory.



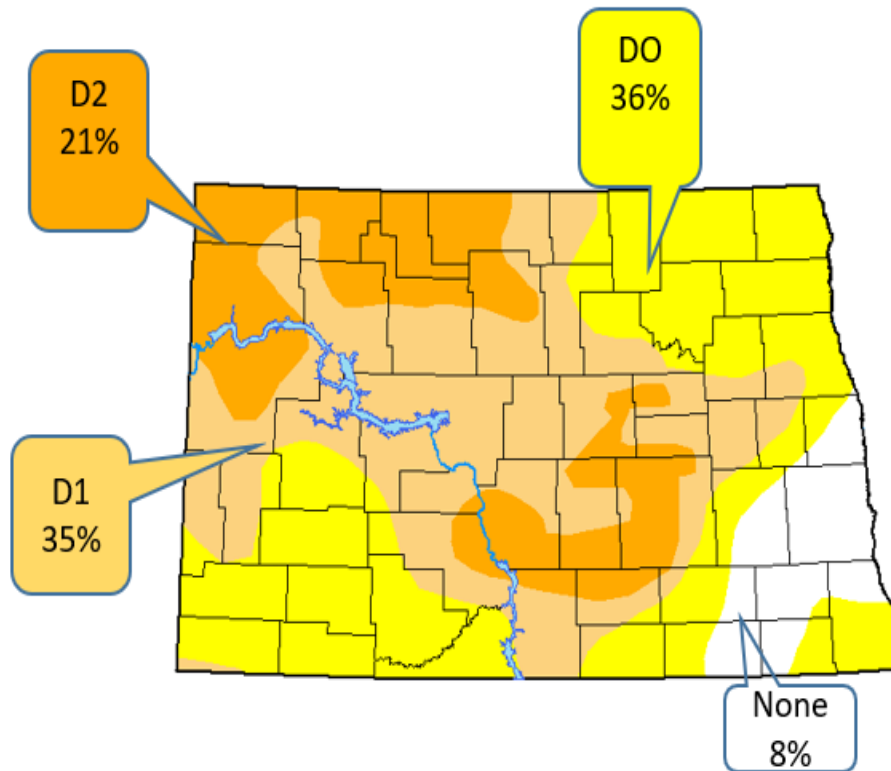
## Livestock Forage Program Full Season Improved Pasture - 2020 Program Year



### Eligible County Payment Months

1

## U.S. Drought Monitor North Dakota October 13, 2020 (Released Thursday, Oct. 15, 2020)



LIVESTOCK PAYMENT RATES					
KIND	TYPE	WEIGHT RANGE	PAYMENT RATE PER HEAD		
			2018	2019	2020
Beef	Adult	Bulls, Cows	\$28.07	\$29.34	\$31.89
	Non-Adult	500 pounds or more	\$21.05	\$22.01	\$23.92
	Non-Adult	Less than 500 pounds		\$14.67	\$15.94
Dairy	Adult	Bulls, Cows	\$72.98	\$76.29	\$82.91
	Non-Adult	500 pounds or more	\$21.05	\$22.01	\$23.92
	Non-Adult	Less than 500 pounds		\$14.67	\$15.94
Beefalo	Adult	Bulls, Cows	\$28.07	\$29.34	\$31.89
	Non-Adult	500 pounds or more	\$21.05	\$22.01	\$23.92
	Non-Adult	Less than 500 pounds		\$14.67	\$15.94
Buffalo/Bison	Adult	Bulls, Cows	\$28.07	\$29.34	\$31.89
	Non-Adult	500 pounds or more	\$21.05	\$22.01	\$23.92
	Non-Adult	Less than 500 pounds		\$14.67	\$15.94
Sheep	All		\$7.02	\$7.34	\$7.97

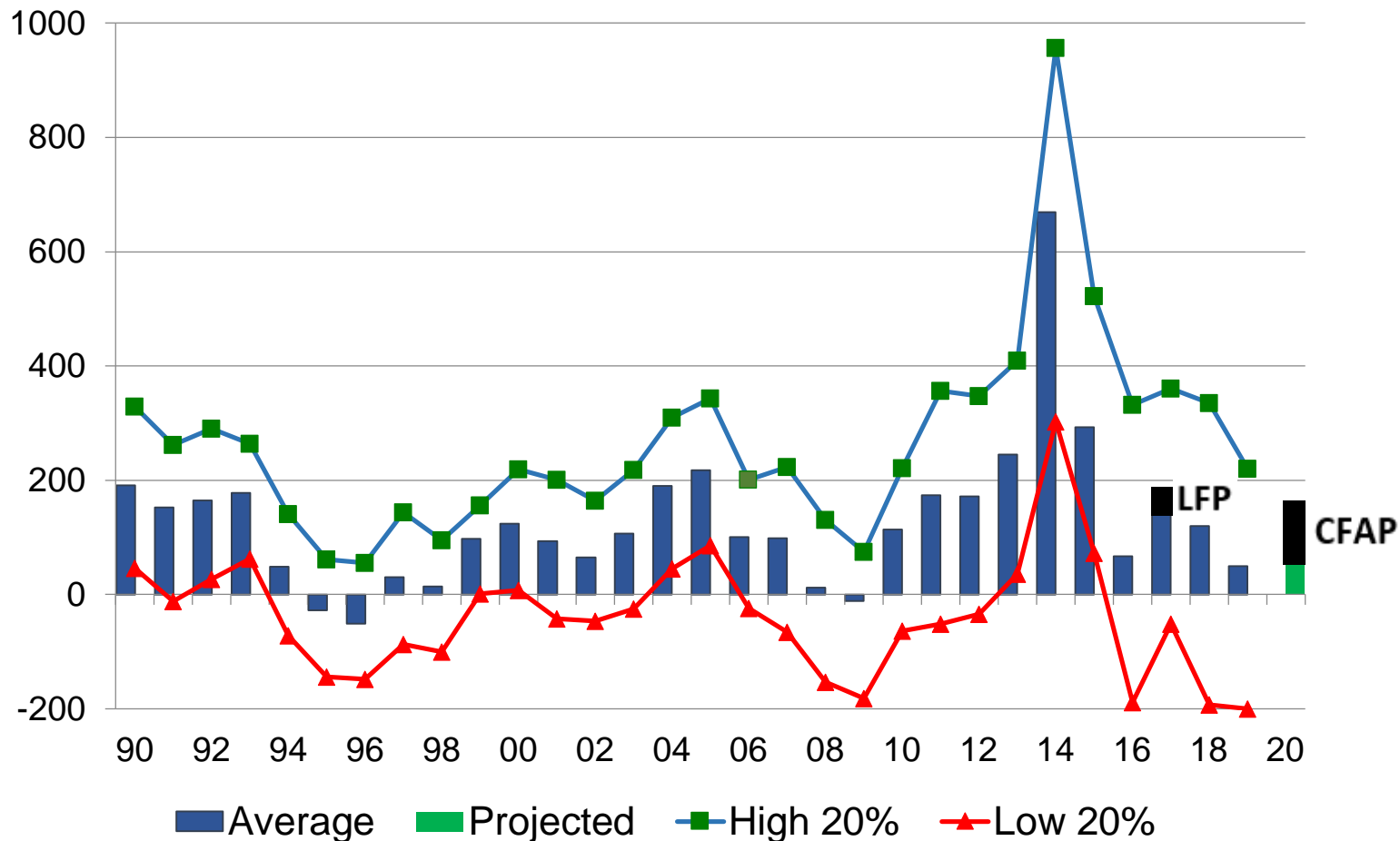
Payments at 60% & 5.9% sequestration deduction  
Cows and bulls - \$18

ND FSA grazing season end 10/15/2020

[www.ag.ndsu.edu/farmmanagement/tools](http://www.ag.ndsu.edu/farmmanagement/tools)

2020 LFP calculator (1).xlsx

## Average Net Return to Labor and Management Per Beef Cow N.D. Farm Business Mgmt., Excluding Red River Valley







## CFAP 1.0

# CFAP Program Payments

### NORTH DAKOTA

Cattle \$142.22M

Hogs \$1.89M

Lambs-Lambs.. \$1.04M

Sheep-Sheep.. \$0.25M

Wool-Graded.. \$0.07M

Wool-NonGra.. \$0.06M

Milk \$4.49M

Livestock \$145,397,233

9,505

Approved Applications

### CFAP payments for eligible livestock are based on:

the actual sales between January 15, 2020, and April 15, 2020, of owned unpriced inventory as of January 15, 2020, including sales of any offspring from that inventory, and

the highest owned inventory on a date selected by the producer between April 16, 2020 and May 14, 2020.

LIVESTOCK	ELIGIBLE LIVESTOCK	UNIT OF MEASURE	CARES ACT PART 1 PAYMENT RATE	CCC PART 2 PAYMENT RATE
Cattle	Feeder Cattle: Less Than 600 Pounds	Head	\$102.00	\$33.00
	Feeder Cattle: 600 Pounds or More	Head	\$139.00	\$33.00
	Slaughter Cattle: Fed Cattle	Head	\$214.00	\$33.00
	Slaughter Cattle: Mature Cattle	Head	\$92.00	\$33.00
	All Other Cattle	Head	\$102.00	\$33.00
Hogs & Pigs	Pigs: Less Than 120 Pounds	Head	\$28.00	\$17.00
	Hogs: 120 Pounds or More	Head	\$18.00	\$17.00
Sheep	All Sheep Less Than Two Years of Age	Head	\$33.00	\$7.00
	All Sheep Greater Than Two Years of Age	Head	\$24.00	\$7.00

[www.farmers.gov/cfap/data](http://www.farmers.gov/cfap/data)

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## CFAP 2.0 DASHBOARD | Program Payments By Category

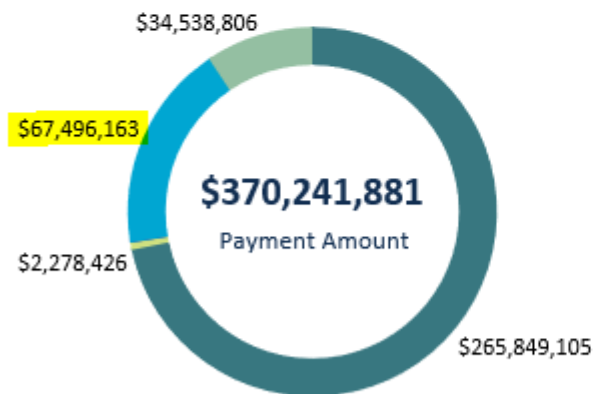
Data as of 11/15/2020 11:59 PM CST

### APPROVED APPLICATIONS

15,260

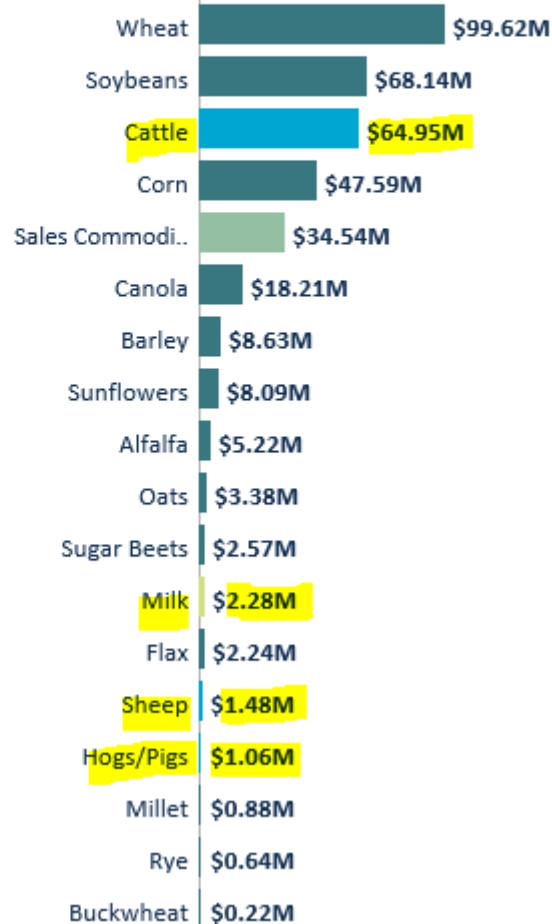
Livestock 6,605

### PAYMENTS BY CATEGORY | Hover for details



Acreage-Based   Livestock  
Dairy   Sales Commodities

### PAYMENTS BY COMMODITY



**LIVESTOCK**  
CFAP1-\$145.4 M  
CFAP2-\$ 67.5  
TOTAL-\$212.9 M

**CATTLE**  
CFAP1-\$142.22 M  
CFAP2-\$ 64.95  
TOTAL-\$207.17 M

The producer's owned inventory of eligible beef cattle, excluding breeding stock, \$55 per head on a date selected by the producer from April 16, 2020, through August 31, 2020,

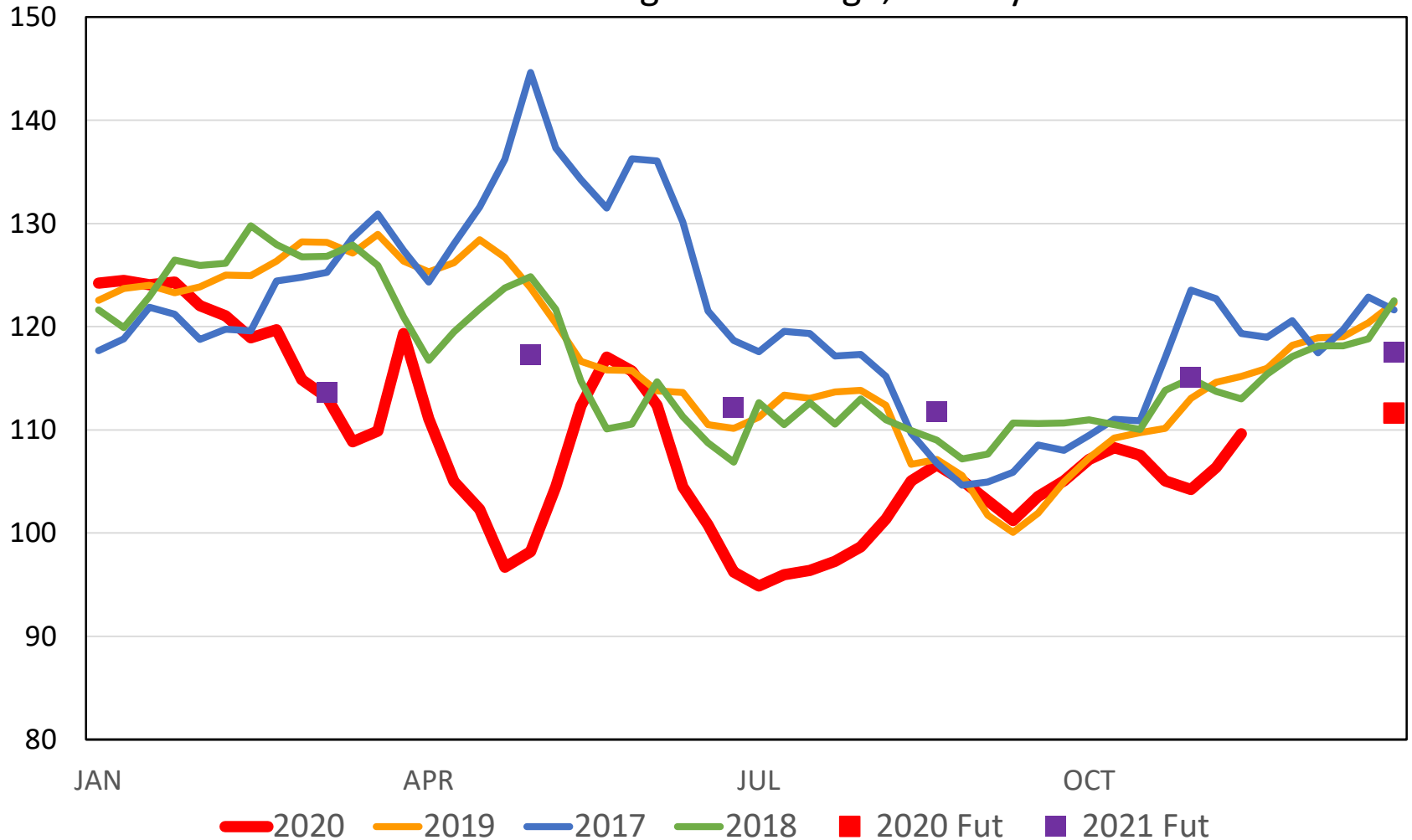
CFAP 2 applications  
through December 11, 2020

hogs and pigs, excluding breeding stock, \$23 per head  
lambs and sheep, excluding breeding stock, \$27 per head.



# SLAUGHTER STEER PRICES

5 Market Weighted Average, Weekly

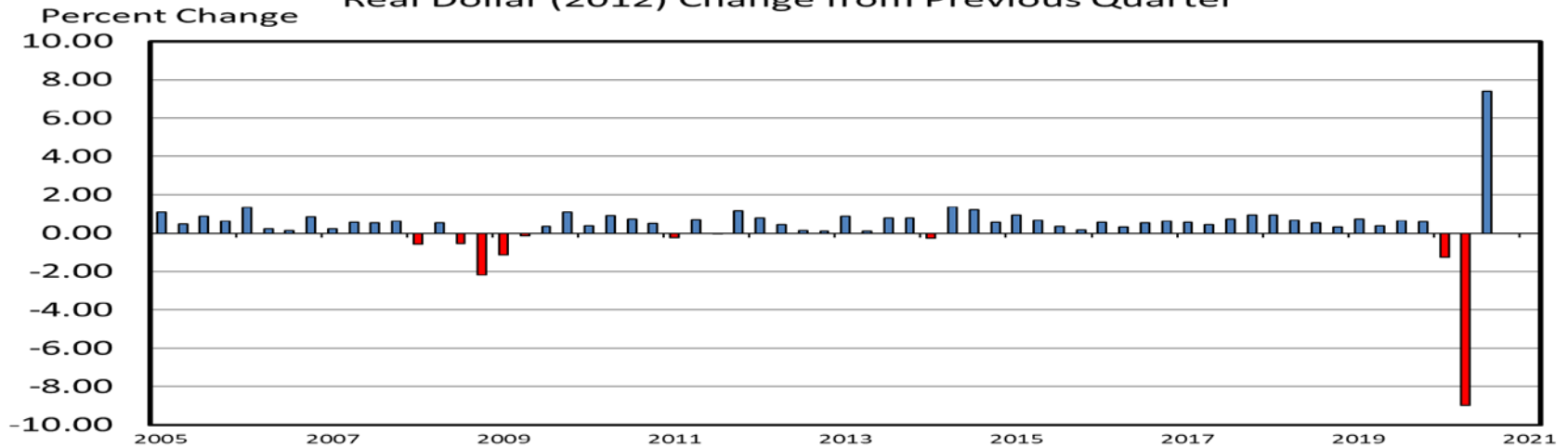


# US ECONOMY ??

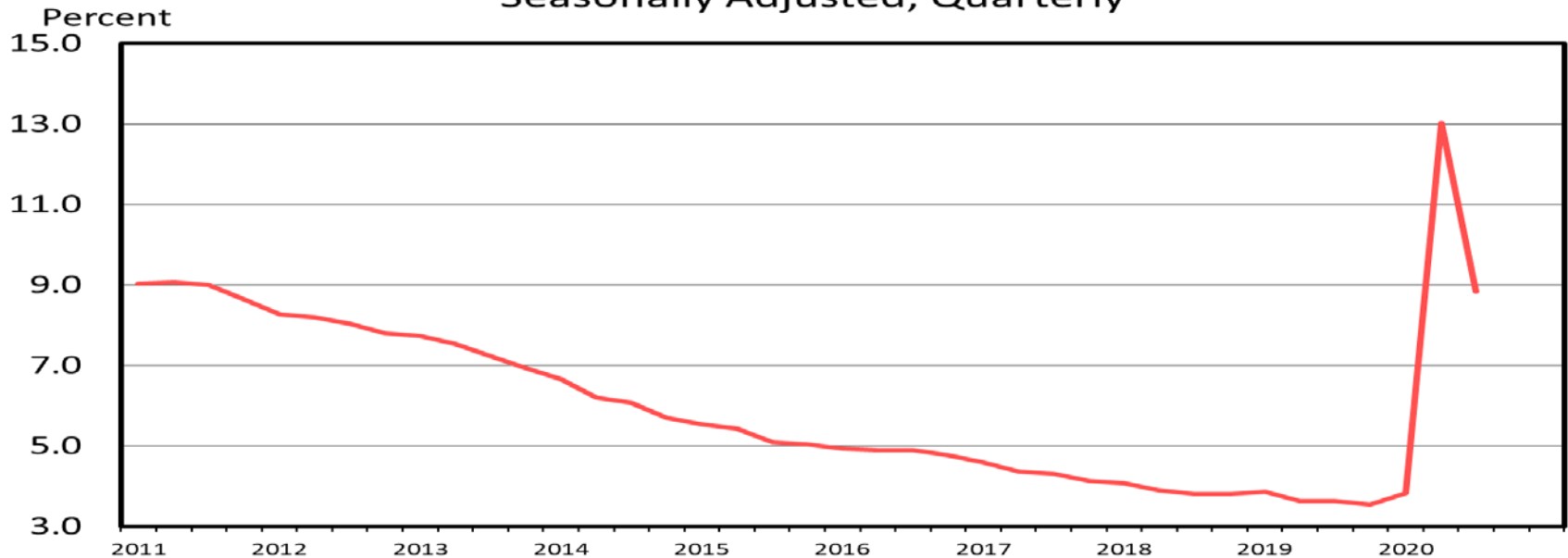


**COVID-19**

## QTRLY GROSS DOMESTIC PRODUCT (GDP) Real Dollar (2012) Change from Previous Quarter

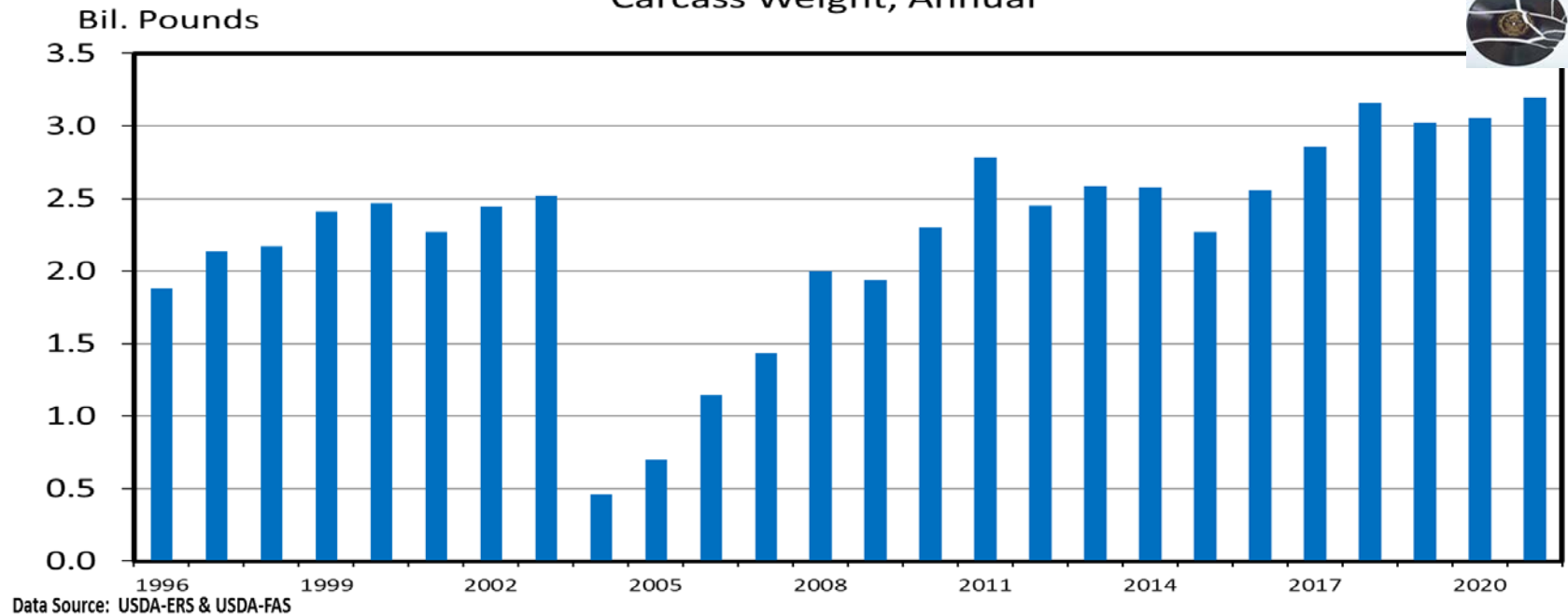
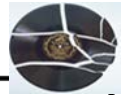


## U.S. UNEMPLOYMENT RATE Seasonally Adjusted, Quarterly



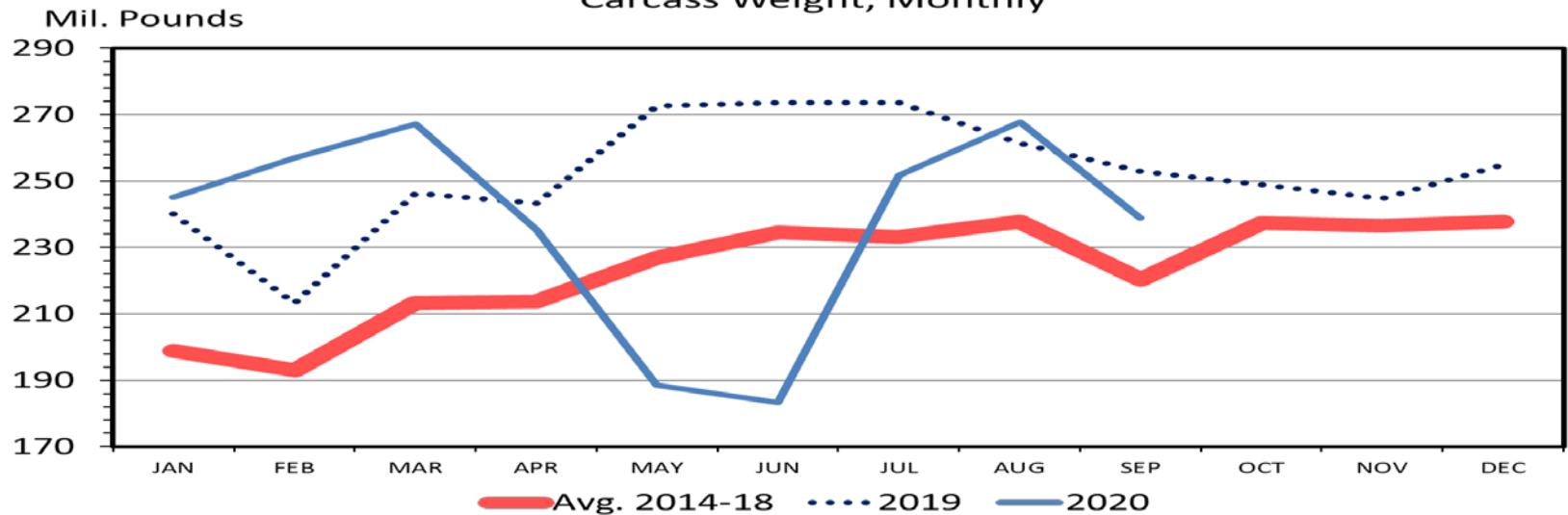
# U.S. BEEF AND VEAL EXPORTS

Carcass Weight, Annual



## US BEEF AND VEAL EXPORTS

Carcass Weight, Monthly

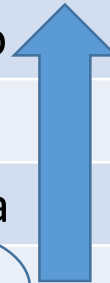


# U.S. Ranking in World



# Major U.S. Meat Export Customers

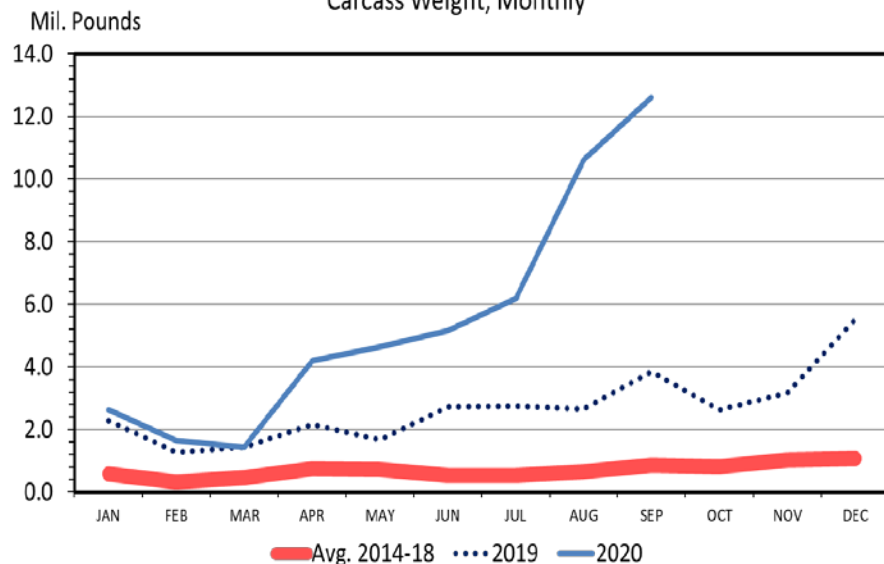
BEEF	PORK	CHICKEN
Japan	Mexico	Mexico
Korea	Japan	Canada
Mexico	Canada	Cuba
Canada	China	Hong Kong
Hong Kong	Korea	Taiwan
China?	Australia	China <del>Ø</del>





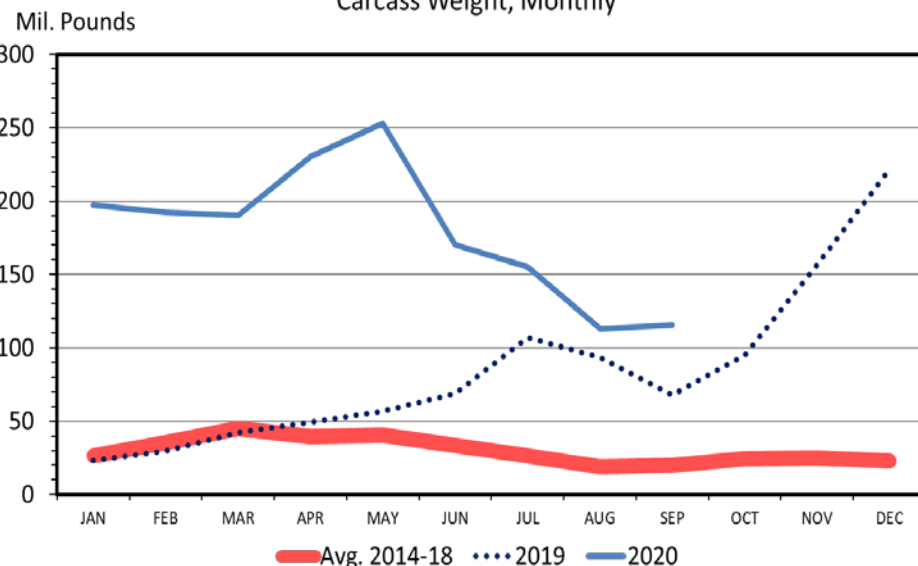
## US BEEF EXPORTS TO CHINA (MAINLAND)

Carcass Weight, Monthly

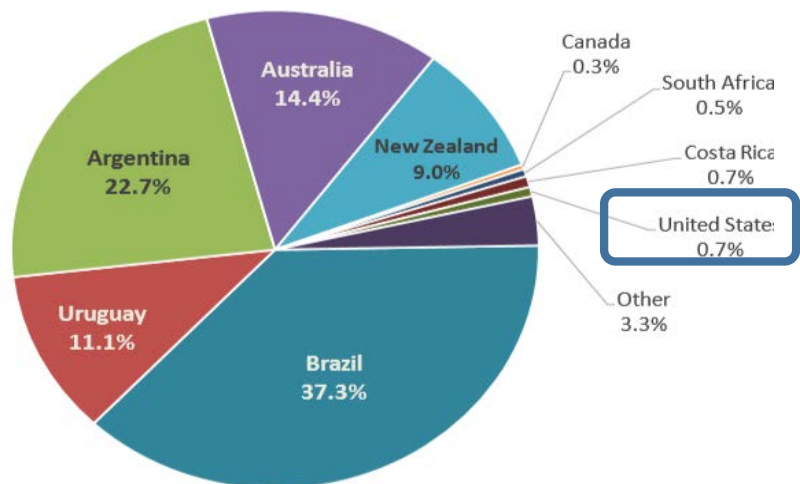


## US PORK EXPORTS TO CHINA (MAINLAND)

Carcass Weight, Monthly



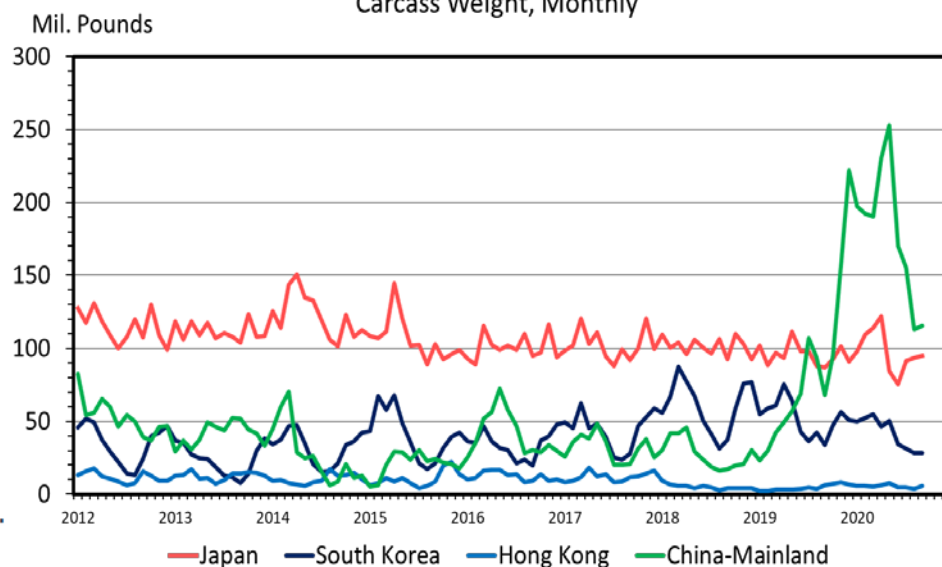
## 2020 Market Share of Imported Beef Business in China.



China has a zero tolerance for ractopamine in beef products.

## US PORK EXPORTS TO MAJOR MARKETS

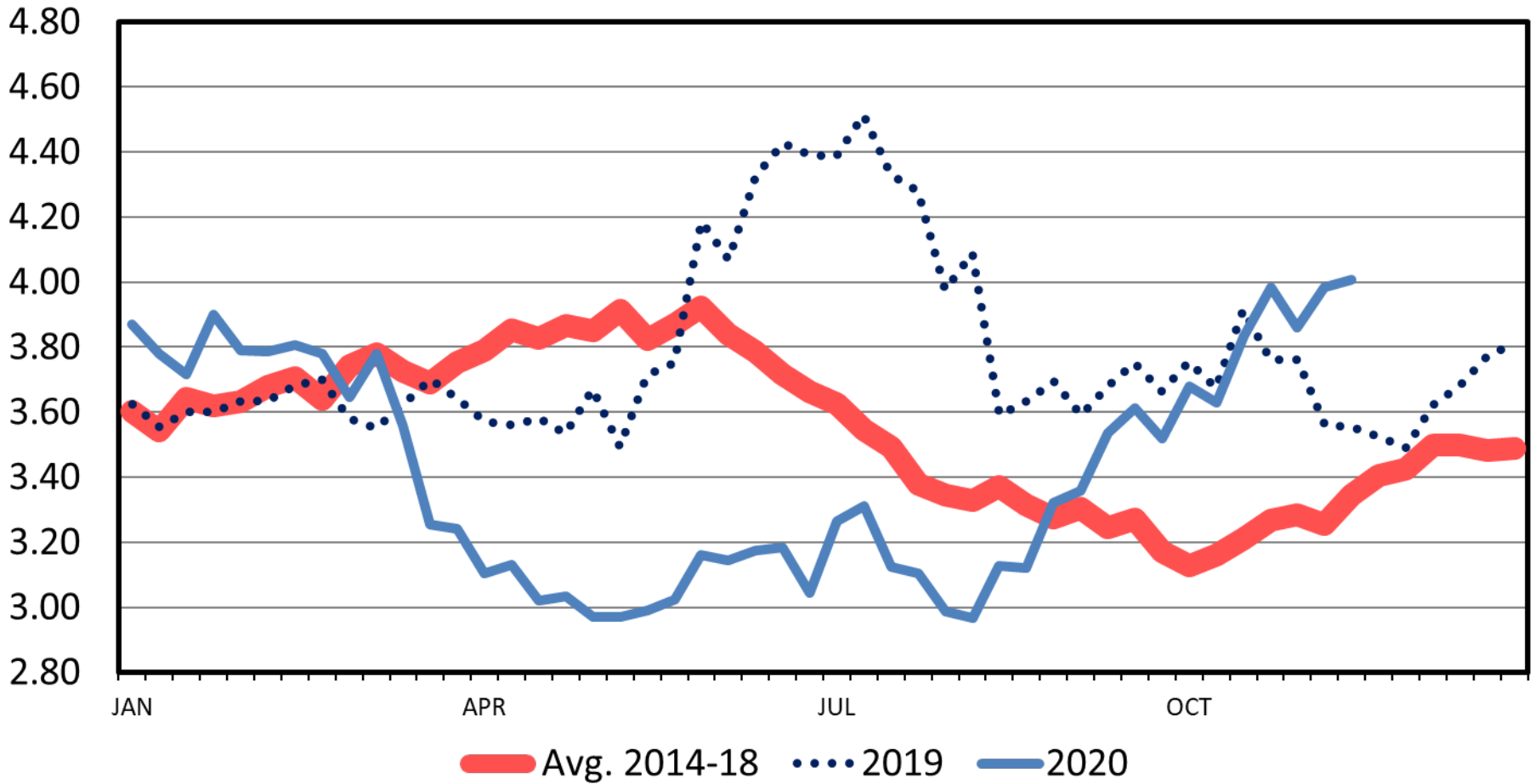
Carcass Weight, Monthly



# OMAHA CORN PRICES

Weekly

\$ Per Bu.



Data Source: USDA-AMS

Livestock Marketing Information Center



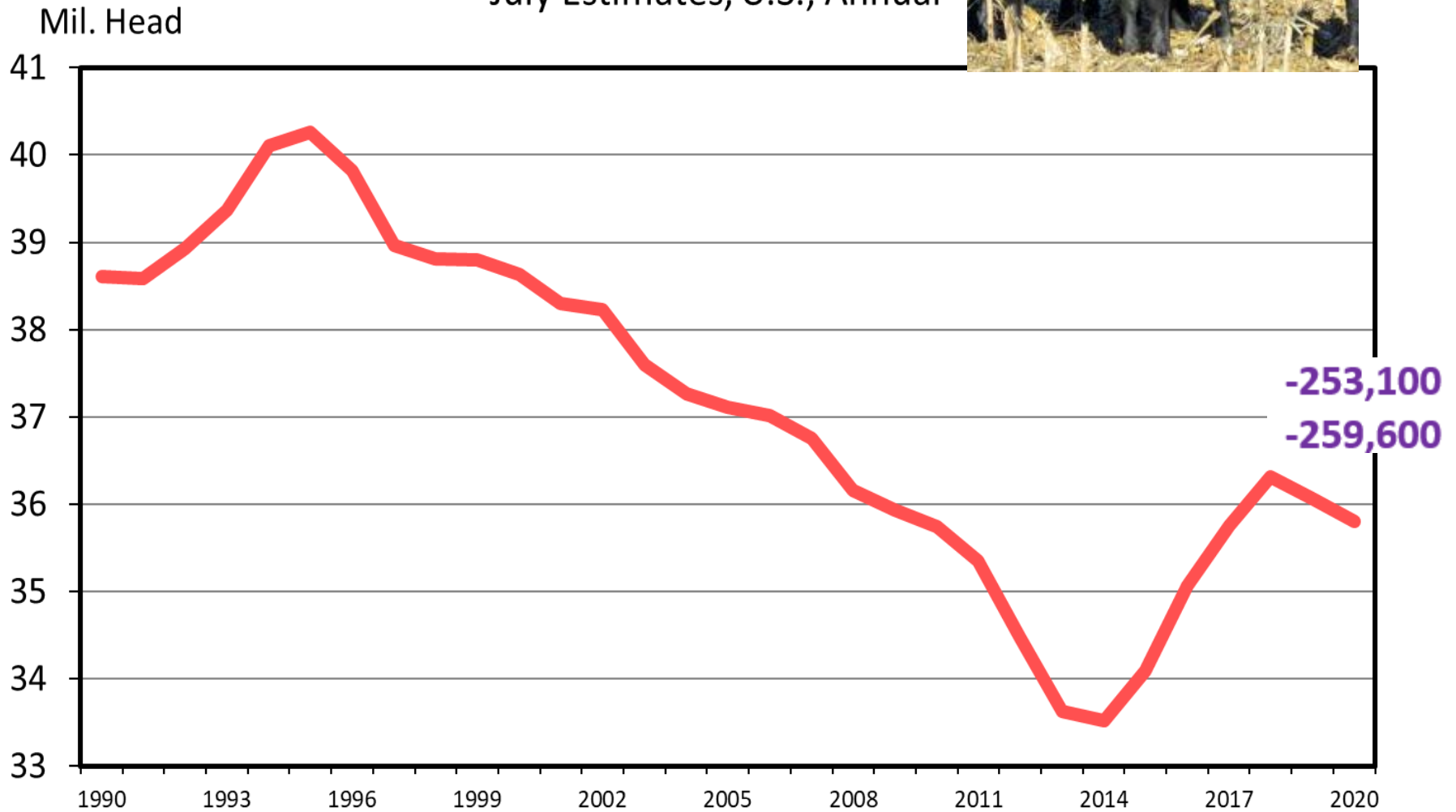
# CALF PRICES FROM **COVID-19** TO CORN PRICES

## JAN FDR CAT and DEC CORN



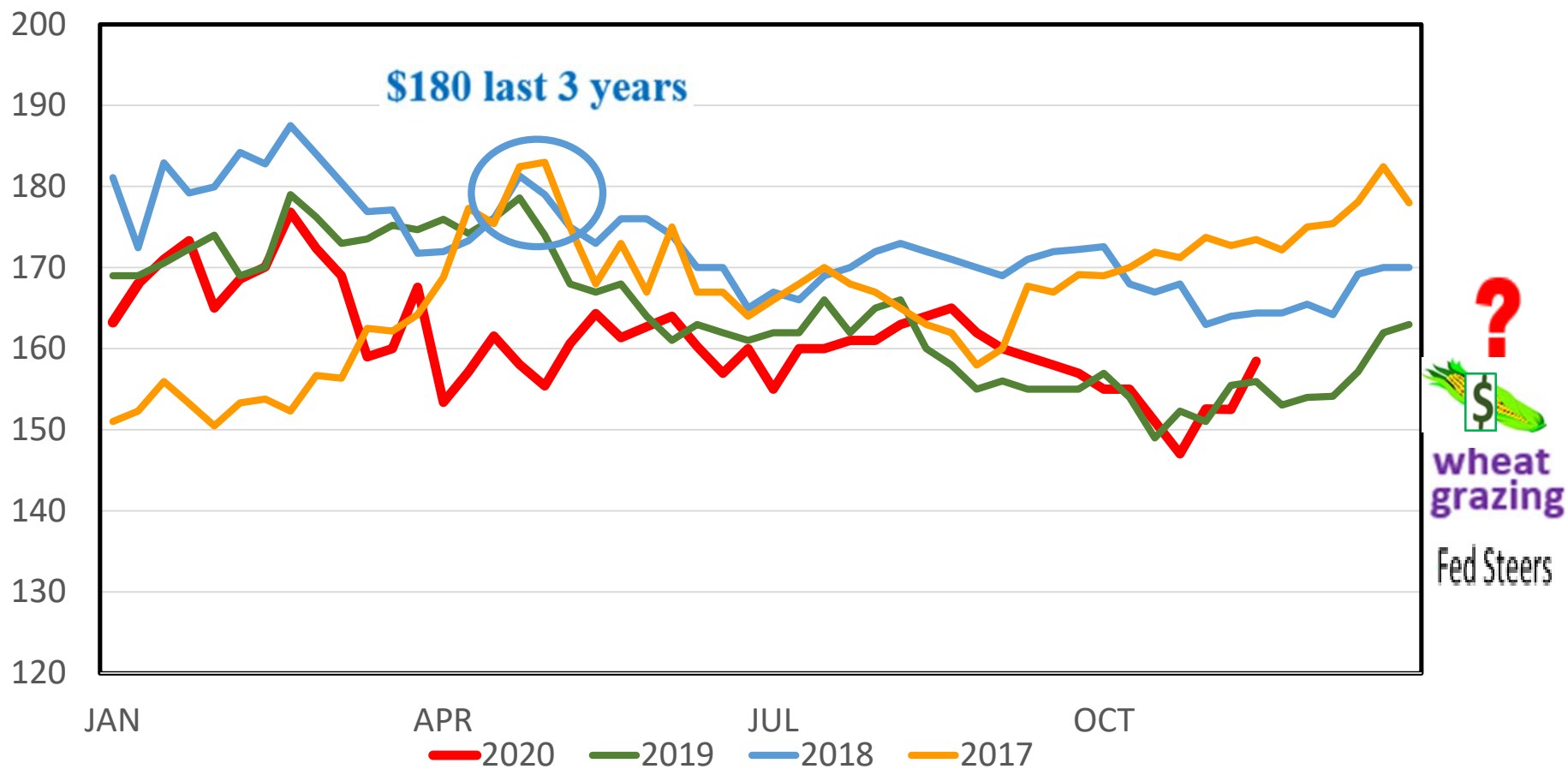
# CALF CROP

July Estimates, U.S., Annual



# MED. FRAME #1 STEER CALF PRICES

## 550-600 Pounds, N.D., Weekly

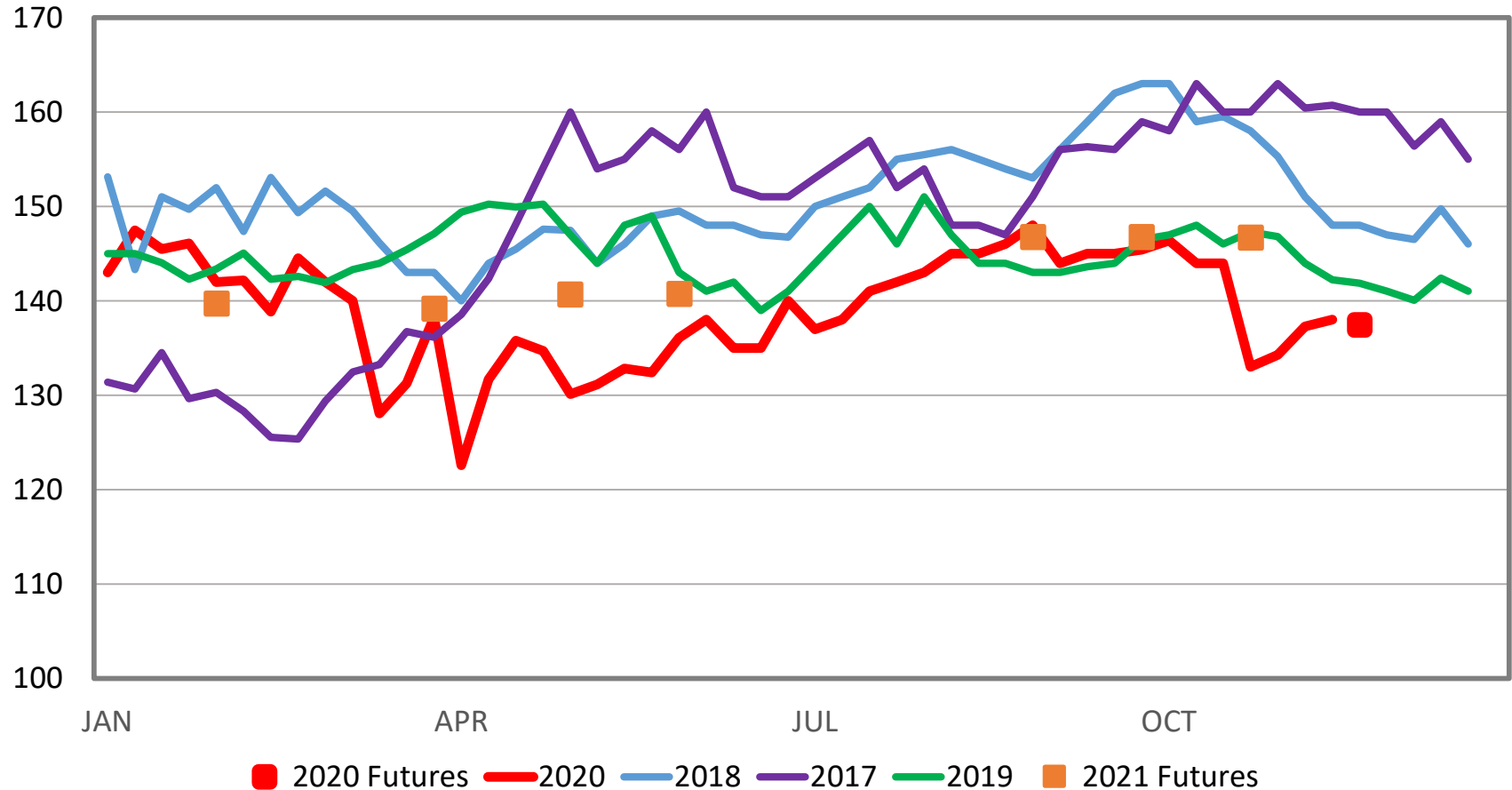


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# MED. & LRG. #1 FEEDER STEER PRICES

## 750-800 Pounds, N.D., Weekly



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North Dakota Weekly Cattle Auction Summary  
AMS Livestock, Poultry, & Grain Market News  
North Dakota Dept of Ag Mrkt News

Fri Nov 13, 2020

STEERS - Medium and Large 1 (Per Cwt / Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price	
23	310-345	331	179.00-210.00	195.19	
42	356-399	367	183.00-196.00	191.45	
178	401-449	425	169.00-201.50	188.28	
166	450-498	467	157.00-185.00	173.88	
1183	501-549	525	153.00-177.00	167.31	
802	550-593	573	143.25-173.50	158.49	
1543	600-649	623	141.50-160.00	152.52	
778	650-699	670	135.00-150.50	146.51	
309	703-732	720	130.00-150.00	143.11	
300	753-799	778	131.00-141.25	138.04	
6	787	787	119.00	119.00	Fleshy
21	804	804	127.50-128.50	127.88	
43	856-867	864	139.00-139.25	139.19	
47	903-933	909	131.00-136.00	135.02	

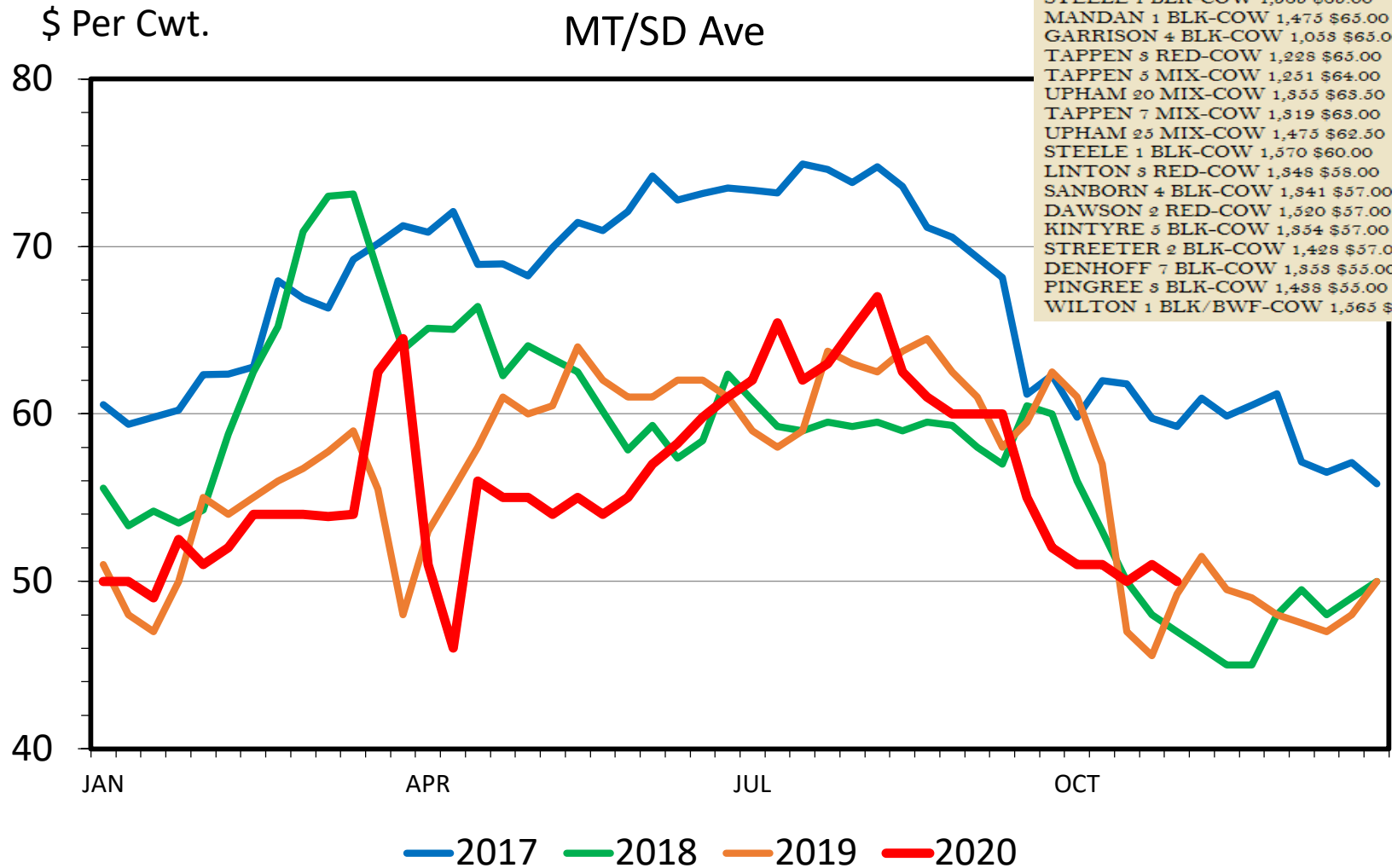
HEIFERS - Medium and Large 1 (Per Cwt / Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price	
39	328-348	337	137.00-163.00	158.47	
44	364-398	381	145.00-162.00	153.39	
138	405-449	422	140.50-160.00	147.85	
424	450-498	477	134.00-153.50	145.22	
34	479	479	158.50	158.50	Replacement
632	500-544	520	129.00-155.00	143.92	
828	550-598	573	125.00-146.00	137.83	
35	565	565	152.25	152.25	Replacement
269	607-649	627	118.00-135.25	131.00	
142	650-693	682	120.00-135.00	128.50	
50	700-744	721	122.50-143.75	129.43	
55	745	745	138.50	138.50	Fancy
63	782-798	788	127.00-134.25	132.00	
17	813	813	124.75	124.75	
9	853	853	128.00	128.00	
68	901-944	925	122.00-133.00	128.62	
24	960-988	969	125.50-128.50	127.45	

# BEEF CULL COW PRICES

Average 85-90% Lean, Weekly  
MT/SD Ave

LINTON 1 BLK-COW	1,435	\$71.00
KINTYRE 1 BLK-COW	1,670	\$71.00
WIMBLEDON 1 RED-COW	1,295	\$68.00
STEELE 1 BLK-COW	1,370	\$68.00
STREETER 8 BLK-COW	1,178	\$67.00
STEELE 1 BLK-COW	1,365	\$65.00
MANDAN 1 BLK-COW	1,475	\$65.00
GARRISON 4 BLK-COW	1,058	\$65.00
TAPPEN 8 RED-COW	1,228	\$65.00
TAPPEN 5 MIX-COW	1,251	\$64.00
UPHAM 20 MIX-COW	1,355	\$63.50
TAPPEN 7 MIX-COW	1,319	\$63.00
UPHAM 25 MIX-COW	1,475	\$62.50
STEELE 1 BLK-COW	1,570	\$60.00
LINTON 8 RED-COW	1,348	\$58.00
SANBORN 4 BLK-COW	1,341	\$57.00
DAWSON 2 RED-COW	1,520	\$57.00
KINTYRE 5 BLK-COW	1,354	\$57.00
STREETER 2 BLK-COW	1,428	\$57.00
DENHOFF 7 BLK-COW	1,353	\$55.00
PINGREE 3 BLK-COW	1,488	\$55.00
WILTON 1 BLK/BWF-COW	1,565	\$55.00

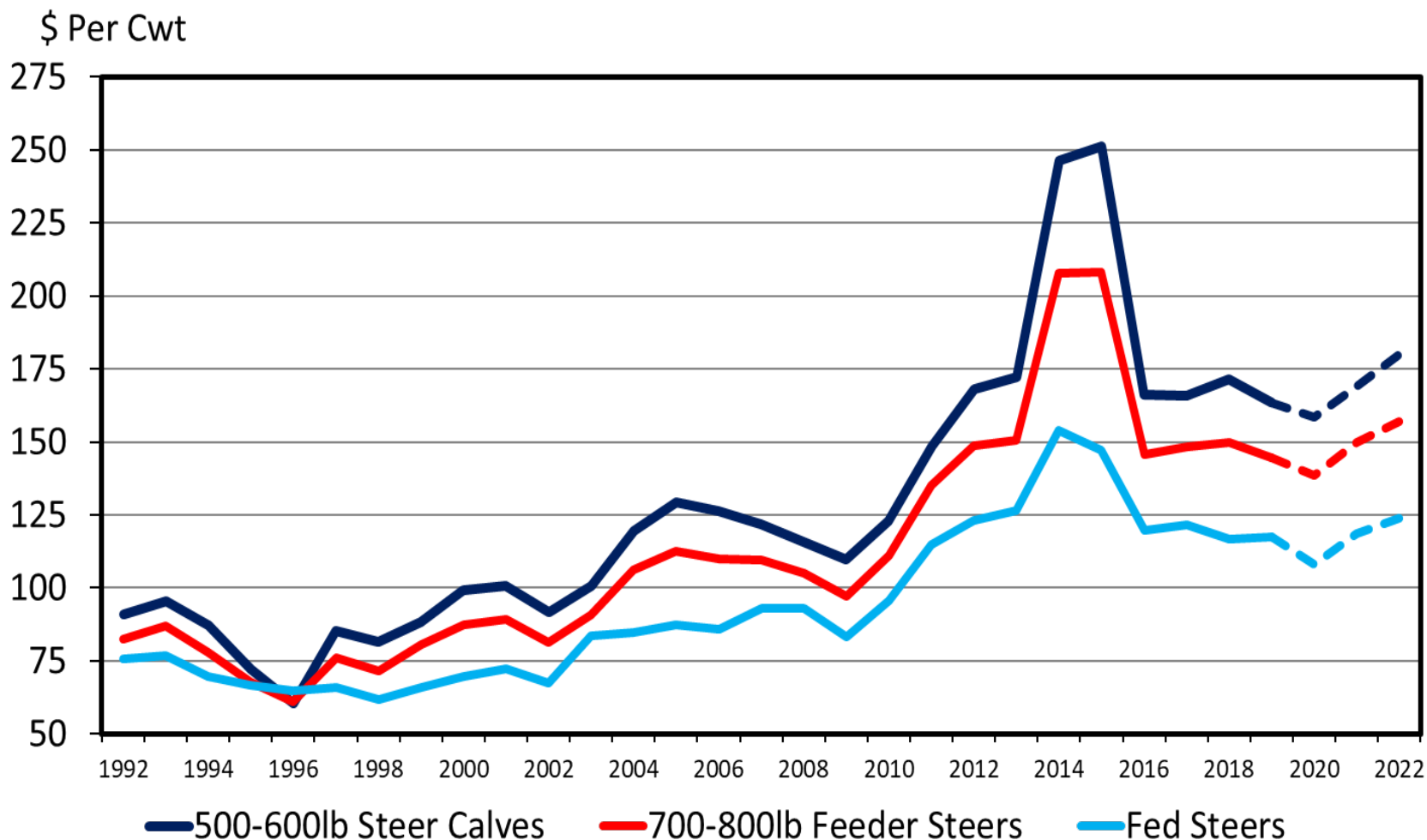


USDA-AMS, Compiled & Analysis by  
LMIC,NDSU

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## 2021 CATTLE PRICES BACK TO 2018 LEVELS AND INCREASING AVERAGE ANNUAL CATTLE PRICES

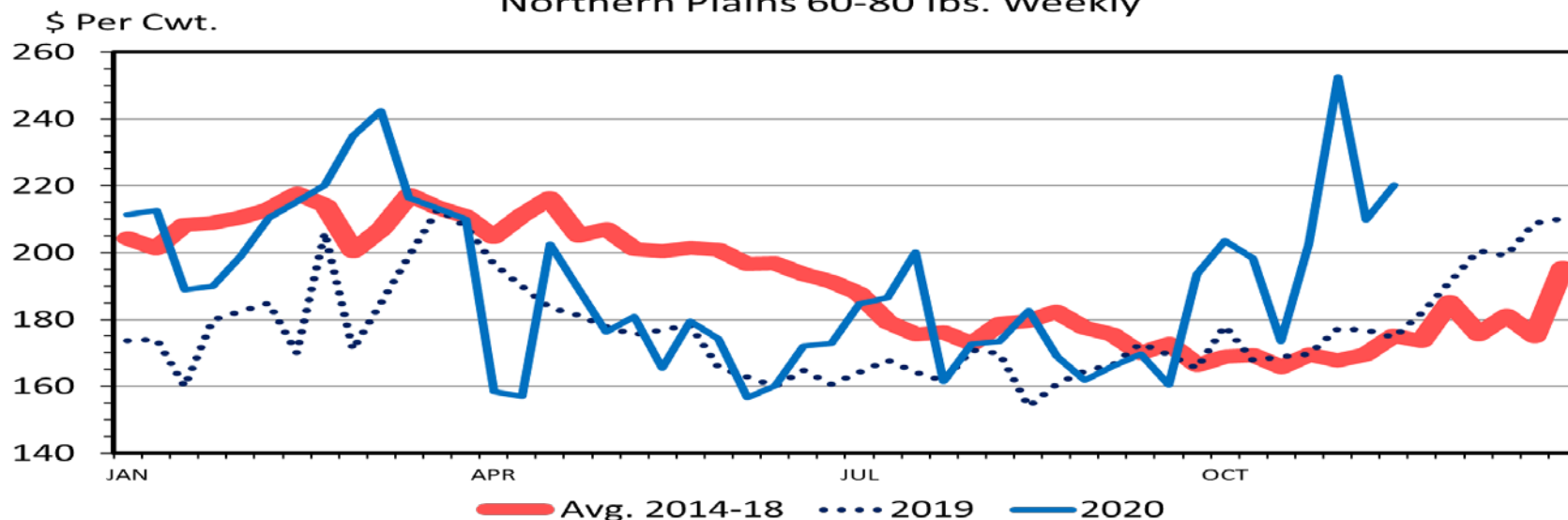


Data Source: USDA-AMS Forecasts by LMIC



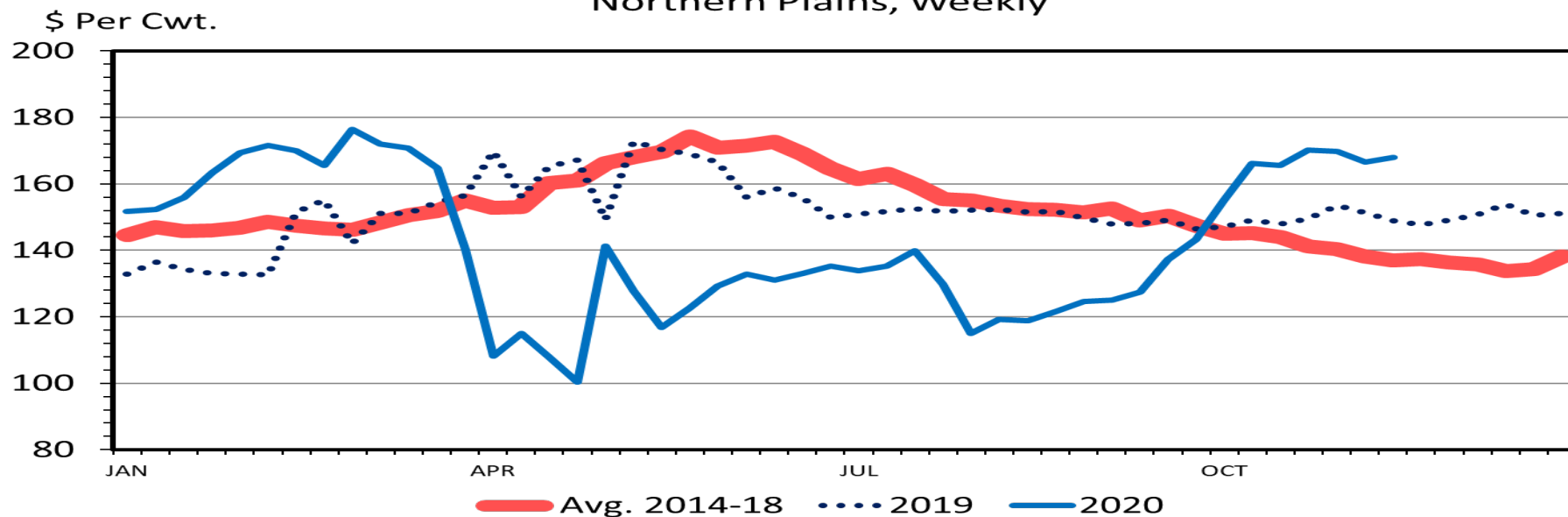
## FEEDER LAMB PRICES

### Northern Plains 60-80 lbs. Weekly



## SLAUGHTER LAMB PRICES

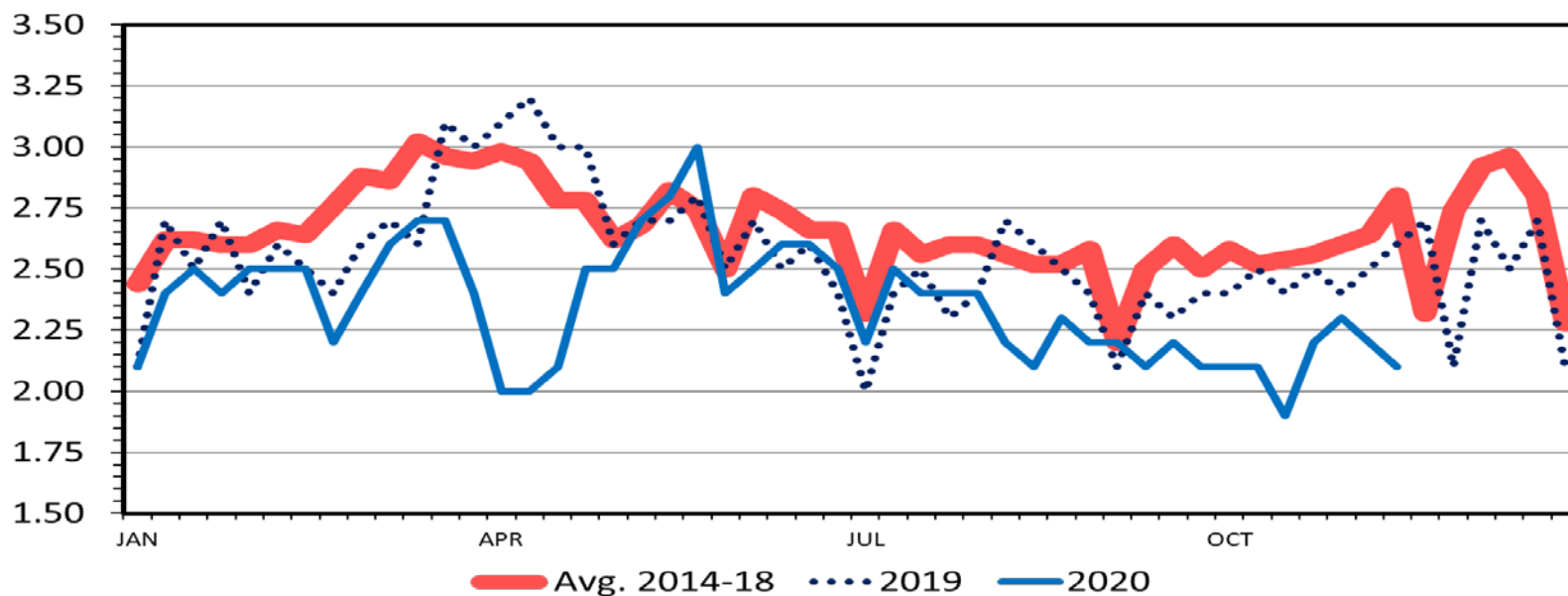
### Northern Plains, Weekly



## LAMB AND MUTTON PRODUCTION

Federally Inspected, Weekly

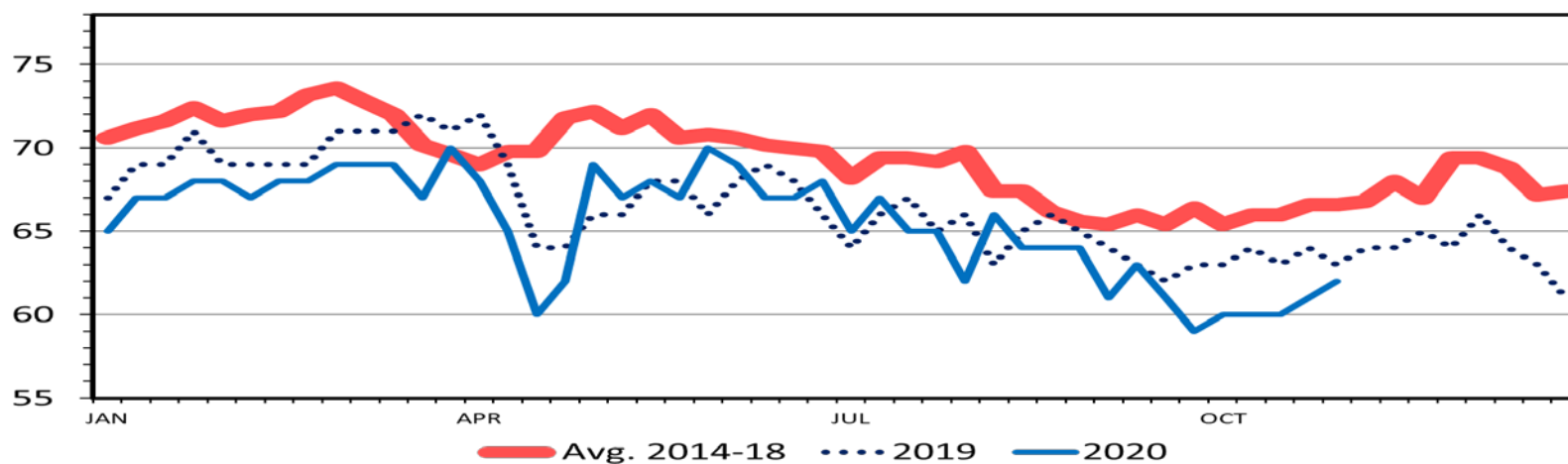
Mil. Pounds



## LAMB AND YEARLING DRESSED WEIGHT

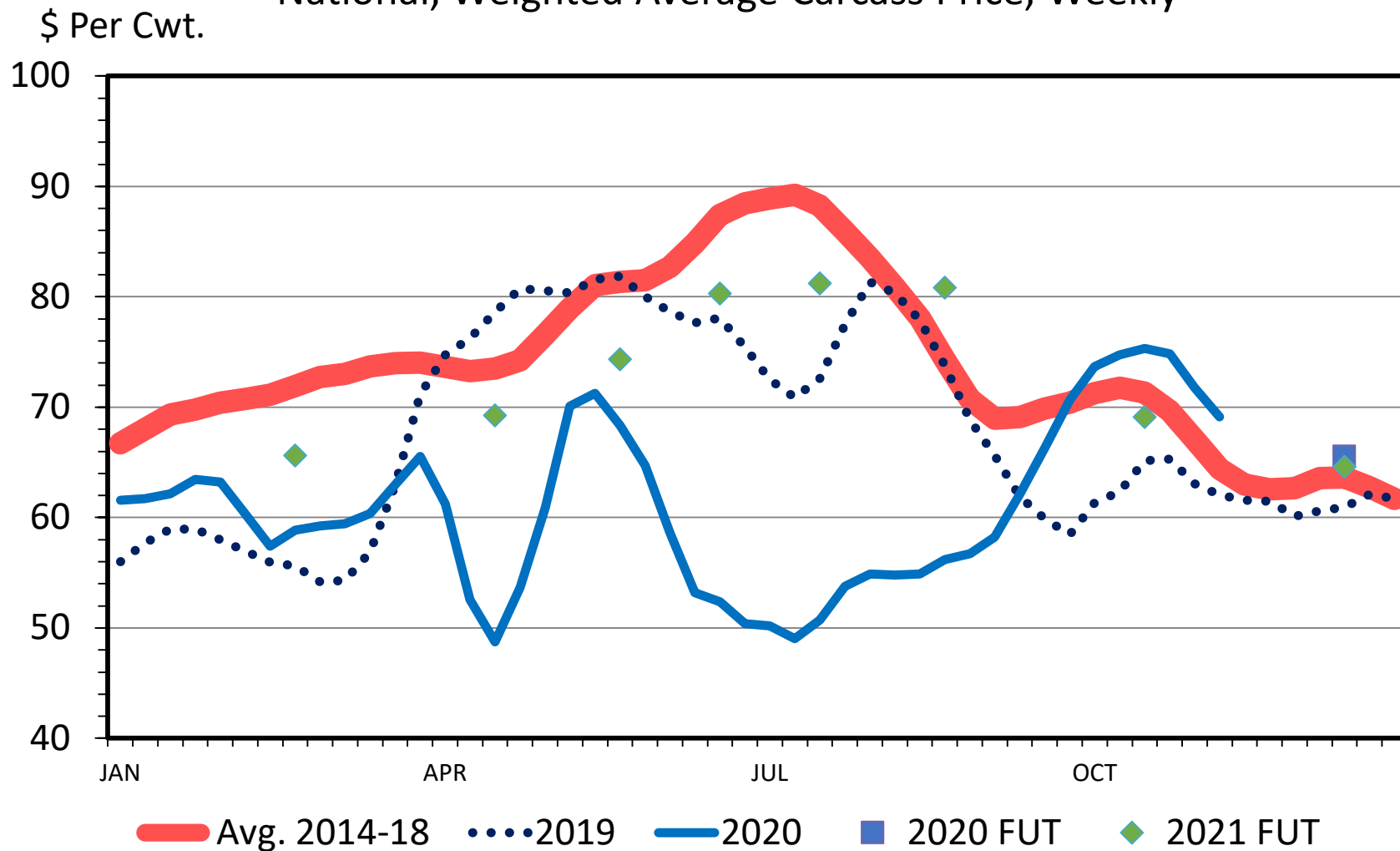
Federally Inspected, Weekly

Thou. Head



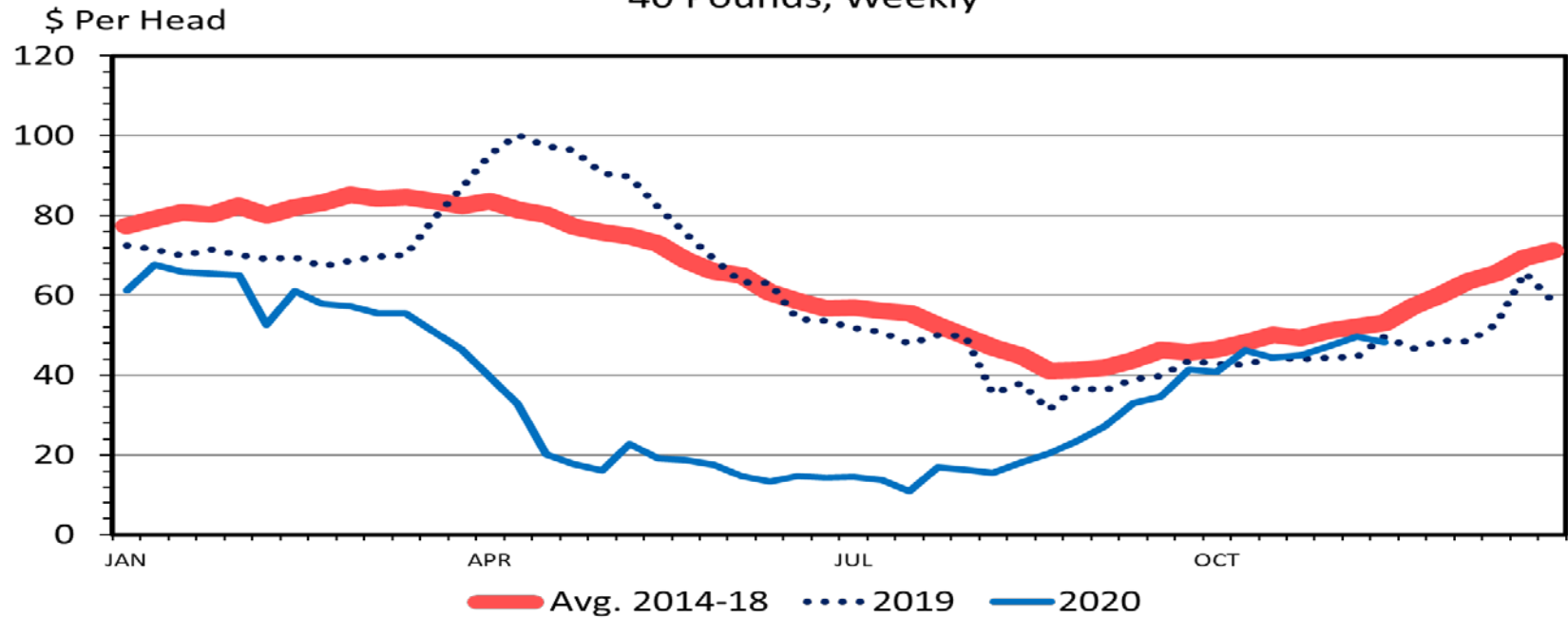
# BASE SLAUGHTER HOG PRICES

National, Weighted Average Carcass Price, Weekly



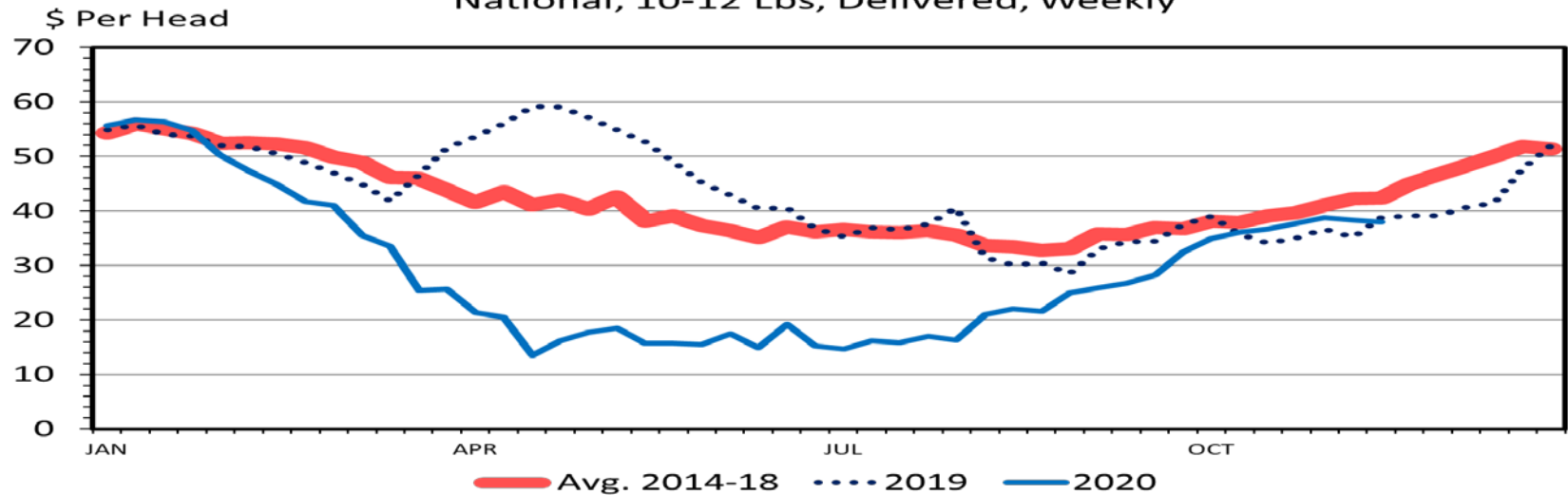
## FEEDER PIG PRICES

40 Pounds, Weekly



## EARLY WEANED PIG PRICES

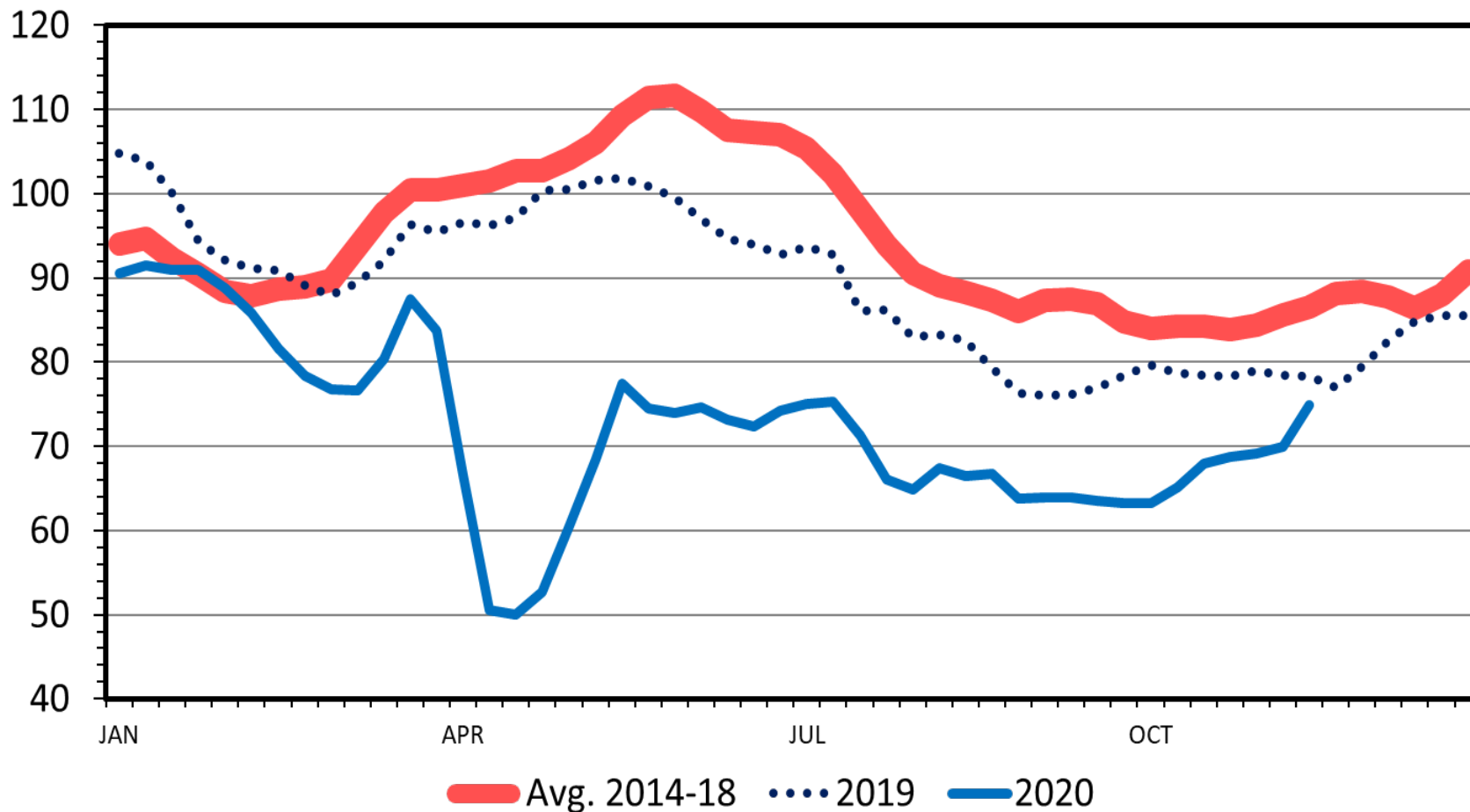
National, 10-12 Lbs, Delivered, Weekly



# BROILER PRICES

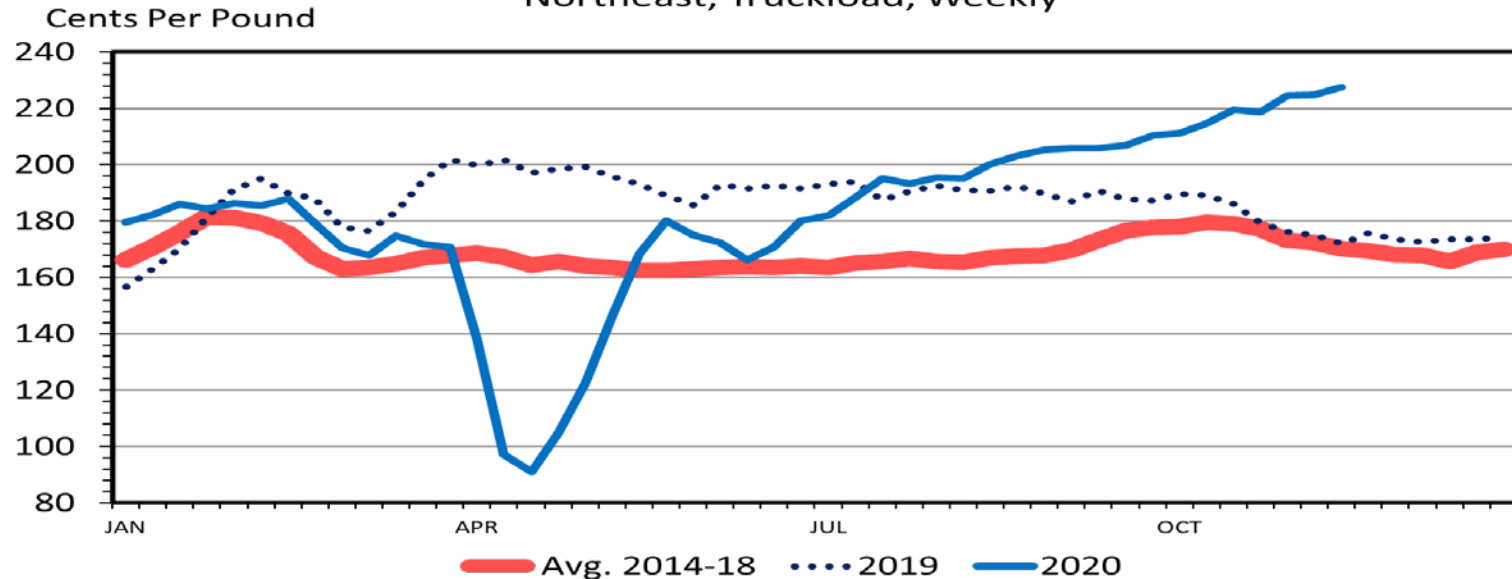
National Composite (Whole Bird), Weekly

Cents Per Pound



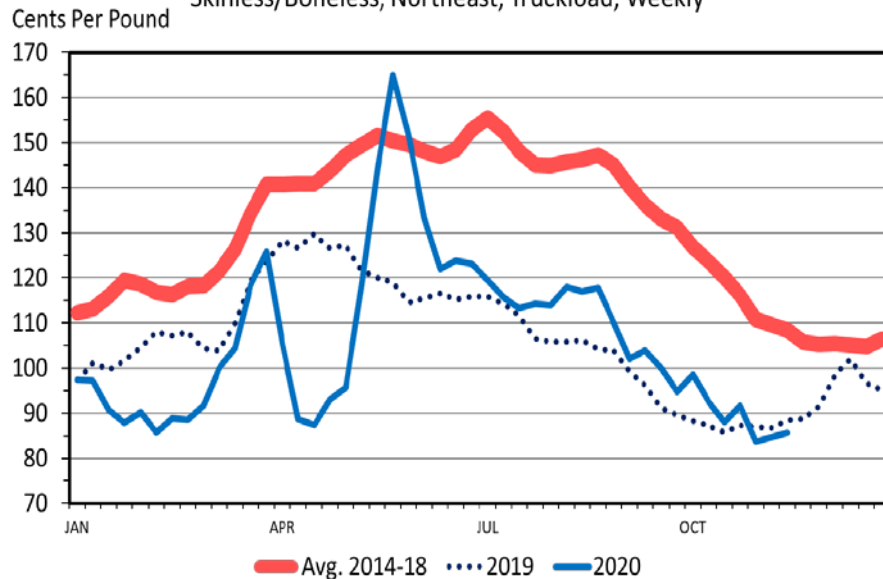
# WHOLESALE CHICKEN WING PRICES

Northeast, Truckload, Weekly



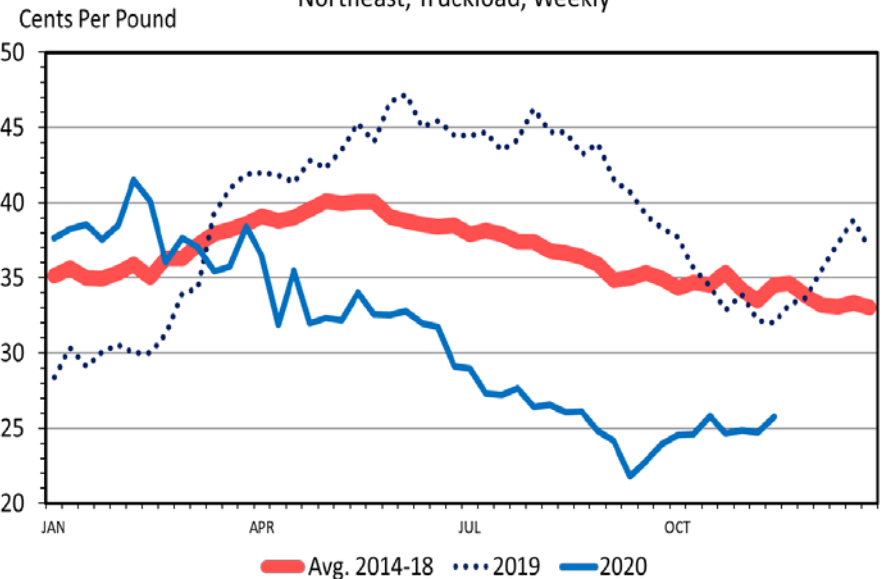
## WHOLESALE CHICKEN BREAST PRICES

Skinless/Boneless, Northeast, Truckload, Weekly



## WHOLESALE CHICKEN LEG QUARTER PRICES

Northeast, Truckload, Weekly



## Prices Received for Milk by Month – United States

Dollars per cwt

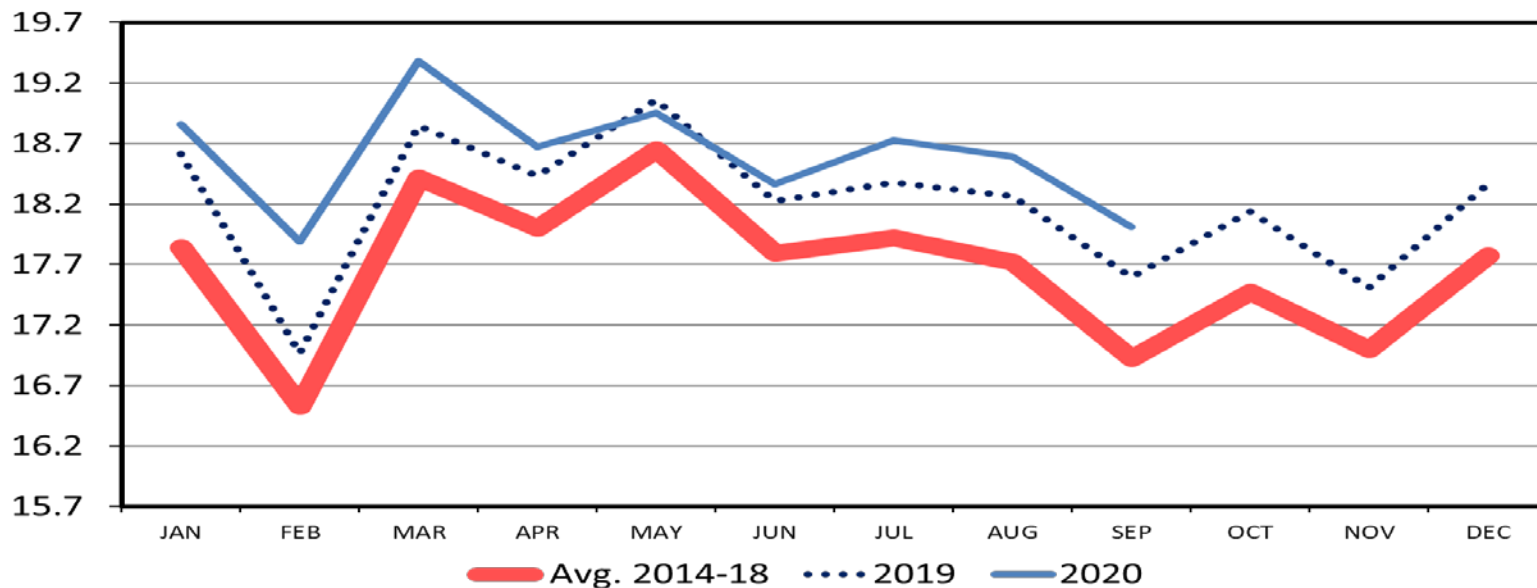


## MILK PRODUCTION

US Total, Monthly

USDA – NASS  
10/30/2020

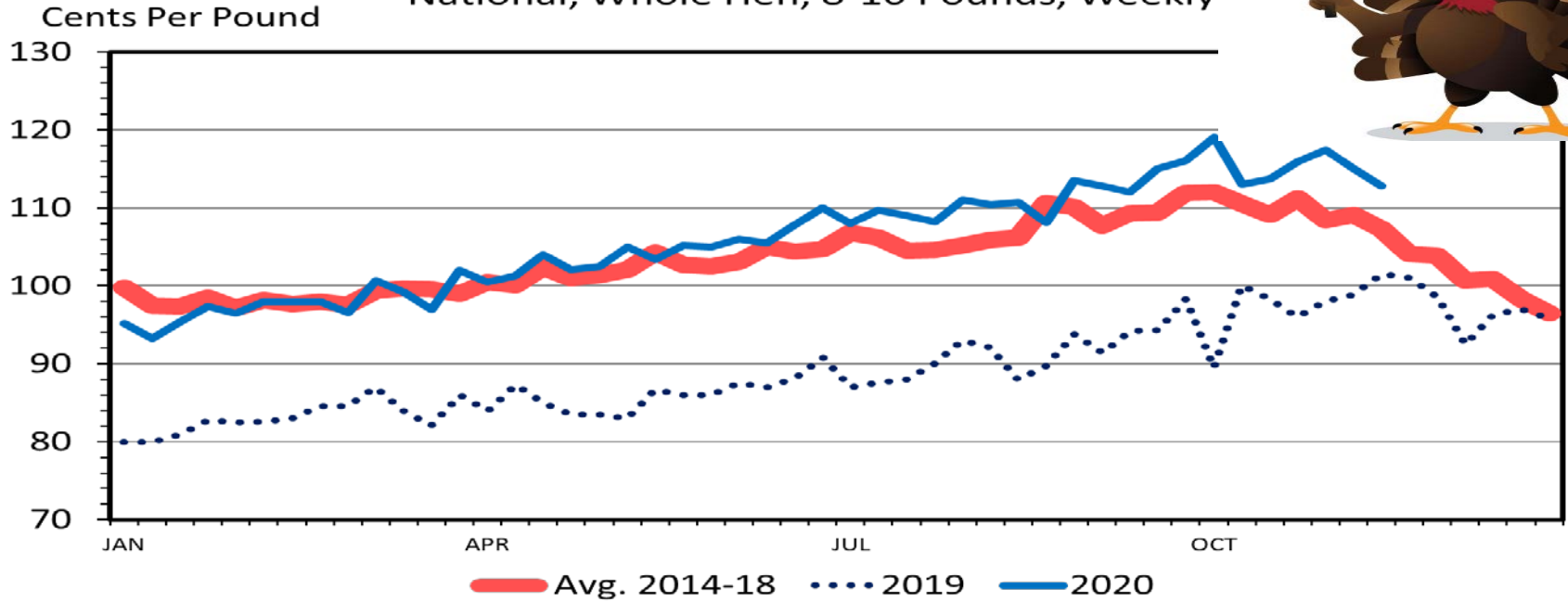
Bil. Pounds





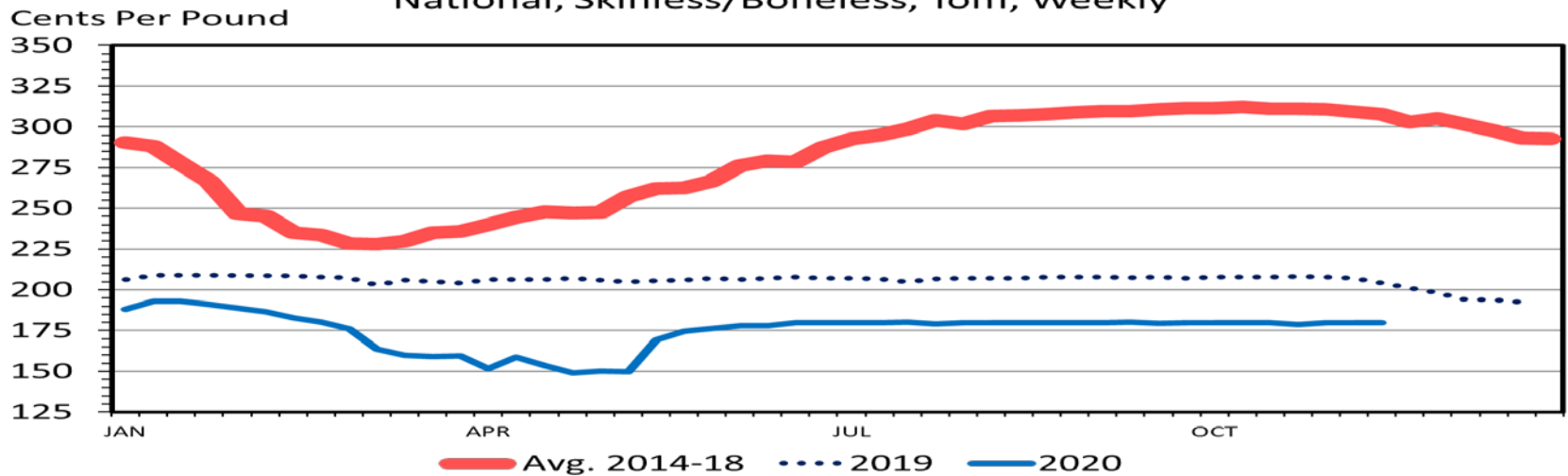
# TURKEY PRICES

National, Whole Hen, 8-16 Pounds, Weekly



# WHOLESALE TURKEY BREAST PRICES

National, Skinless/Boneless, Tom, Weekly



2021: COVID-19, Weather, and Economy?  
Causing Volatility and Risk , especially on  
seasonal basis. Flexible marketing plans  
should include risk management tools



## HAPPIER TIMES ARE AHEAD FOR THE LIVESTOCK INDUSTRY



Questions?



Tomorrow, 1-2 CST ZOOM

