



NATIONAL
CORN GROWERS
ASSOCIATION

A wide-angle photograph of a vast cornfield during harvest. A combine harvester is visible in the distance on the left, moving through the golden corn. The foreground is dominated by a large pile of harvested corn cobs, stretching towards the horizon. The sky is filled with large, white, fluffy clouds.

WORLD OF CORN 2021

A LETTER FROM NCGA



JON DOGGETT
CEO

A stylized, handwritten signature in black ink, appearing to read 'JD'.



JOHN LINDER
PRESIDENT

A handwritten signature in black ink, appearing to read 'John Linder'.

1.3

METRIC TON
HECTARE

harvested in 1930

10.8

METRIC TON
HECTARE

harvested in 2020

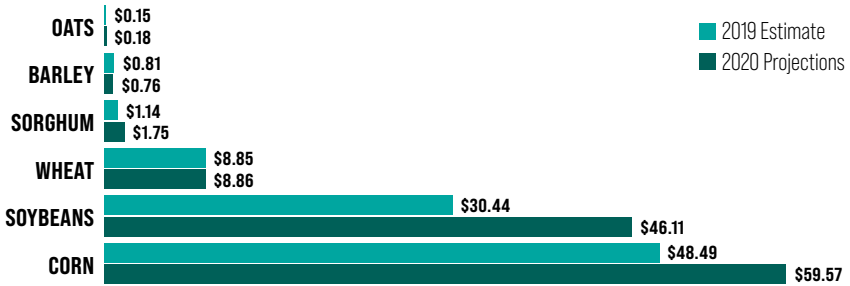


Don't call it a comeback. America's corn farmers took some hits in 2020. A record 30 named hurricanes hit the Gulf Coast and eastern seaboard. Aggressive wildfires ravaged parts of the western United States. A derecho devastated cropland from Iowa to New Jersey. A global pandemic impacted Americans in rural and urban areas alike. Despite what felt like taking body work from a heavyweight, America's corn farmers ducked, faded, bobbed and weaved to success. They rolled with the punches. As the bell rang on 2020 America's farmers won by a knockout. Truly champions, they stared down adversity, producing a healthy crop to sustainably feed and fuel the world. Take a minute to roll the footage back. America's farmers may have been on the ropes, but these underdogs go toe-to-toe year-after-year and emerge victorious.



U.S. SELECT CROP VALUE

(\$ billion)



Source: USDA WASDE Jan. 15, 2021

U.S. ALL CROP HECTARES HARVESTED

2019-2020

(1,000 hectare)

	2019*	2020**		2019*	2020**
Corn (grain)	32,916	33,373	Potatoes	379	370
Corn (silage)	2,677	2,719	Oats	335	406
Soybeans	30,327	33,313	Sugar Cane	370	381
Hay	21,216	21,140	Lentils	174	208
Wheat	15,133	14,871	Rye	125	134
Cotton	4,699	3,521	Proso Millet	188	196
Sorghum (grain)	1,892	2,062	Flaxseed	129	120
Sorghum (silage)	137	97	Chickpeas	163	106
Rice	1,000	1,209	Tobacco	92	80
Barley	899	863	Safflower	62	51
Canola	773	724	Mustard Seed	36	37
Dry Edible Beans	476	678	Peppermint	21	20
Peanuts	562	654	Hops	23	24
Sunflower	507	674	Other	12	11
Dry Edible Peas	426	395	TOTAL	116,147	118,899
Sugar Beets	396	462			

Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

*estimate **projections

U.S. CORN PRODUCTION



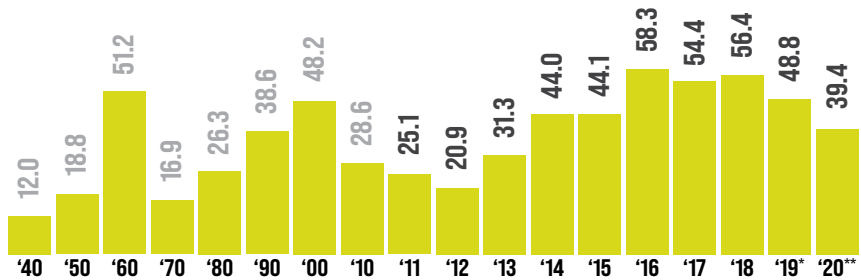
2020 U.S. CORN PRODUCTION BY STATE

	Planted Hectares (1,000s)	Harvested Hectares (1,000s)	Average Yield MT/Ha	Total Production (1,000 MT)		Planted Hectares (1,000s)	Harvested Hectares (1,000s)	Average Yield MT/Ha	Total Production (1,000 MT)
AL	134	129	9.9	1,284	ND	789	720	8.7	6,285
AR	251	245	11.5	2,828	NE	4,128	4,002	11.4	45,470
AZ	30	12	12.7	149	NH	5	(NA)	(NA)	(NA)
CA	178	24	11.7	285	NJ	35	32	9.8	317
CO	575	429	7.3	3,123	NM	51	15	12.2	183
CT	10	(NA)	(NA)	(NA)	NV	5	(NA)	(NA)	(NA)
DE	73	71	10.0	715	NY	425	206	9.9	2,034
FL	40	25	8.7	214	OH	1,437	1,335	10.7	14,334
GA	170	158	11.3	1,783	OK	146	129	8.5	1,097
IA	5,504	5,220	11.2	58,326	OR	40	26	15.1	398
ID	158	53	12.5	657	PA	607	405	8.7	3,505
IL	4,573	4,492	12.1	54,135	RI	1	(NA)	(NA)	(NA)
IN	2,185	2,125	11.7	24,938	SC	162	154	8.3	1,274
KS	2,469	2,315	8.4	19,470	SD	2,003	1,821	10.2	18,517
KY	603	558	11.5	6,450	TN	352	334	10.7	3,563
LA	202	196	11.4	2,230	TX	911	732	8.0	5,885
MA	6	(NA)	(NA)	(NA)	UT	36	13	9.4	117
MD	194	174	9.7	1,693	VA	227	170	7.7	1,302
ME	12	(NA)	(NA)	(NA)	VT	34	(NA)	(NA)	(NA)
MI	951	805	9.7	7,784	WA	73	32	14.3	463
MN	3,237	3,039	12.1	36,627	WI	1,619	1,202	10.9	13,127
MO	1,396	1,327	10.7	14,247	WV	21	15	9.0	139
MS	206	198	11.3	2,240	WY	38	22	7.7	167
MT	47	25	6.8	169	U.S.	36,753	33,373	10.8	360,252
NC	405	384	7.1	2,727					

Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

U.S. CORN ENDING STOCKS 1940 - 2020

(million metric tons)



Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 - Aug. 2021

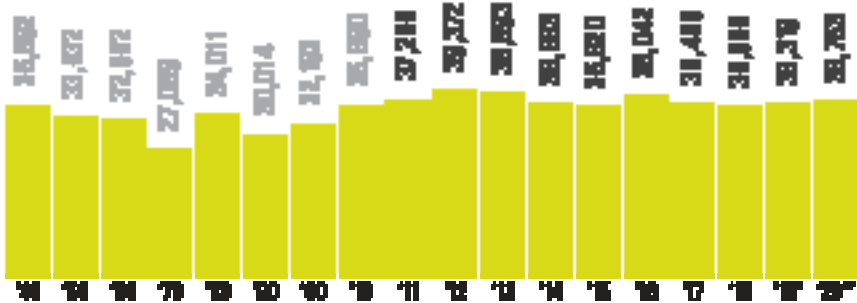
*estimated



U.S. CORN PRODUCTION

U.S. CORN HECTARES PLANTED 1940-2020

(1,000 hectare)

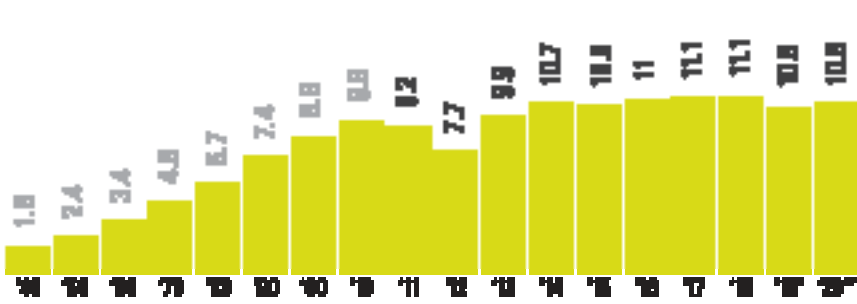


Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 - Aug. 2021 ^{*estimated}

U.S. AVERAGE CORN YIELD 1940-2020

(metric ton/hectare)

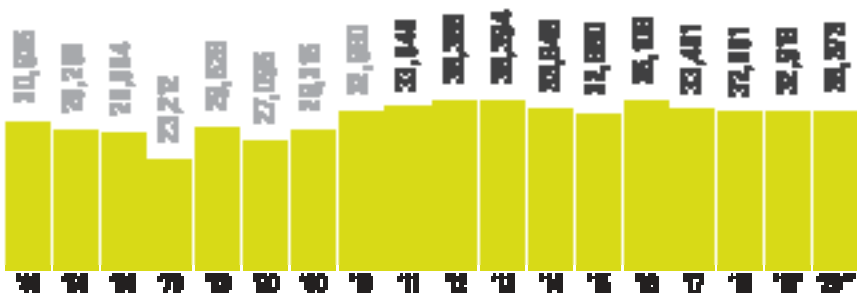


Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 - Aug. 2021 ^{*estimated}

U.S. CORN HECTARES HARVESTED 1940-2020

(1,000 hectare)

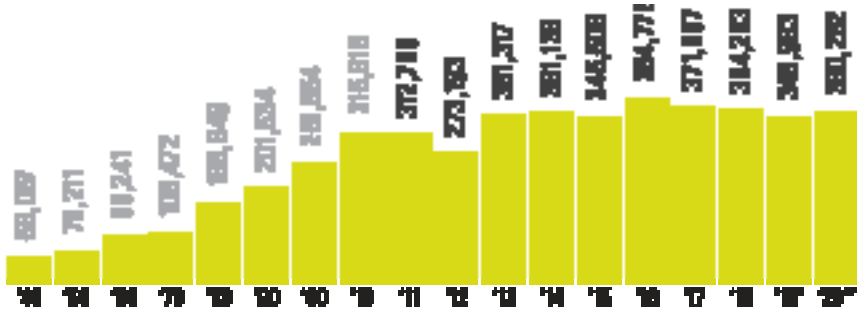


Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 - Aug. 2021 ^{*estimated}

U.S. CORN PRODUCTION 1940–2020

(1,000 metric tons)



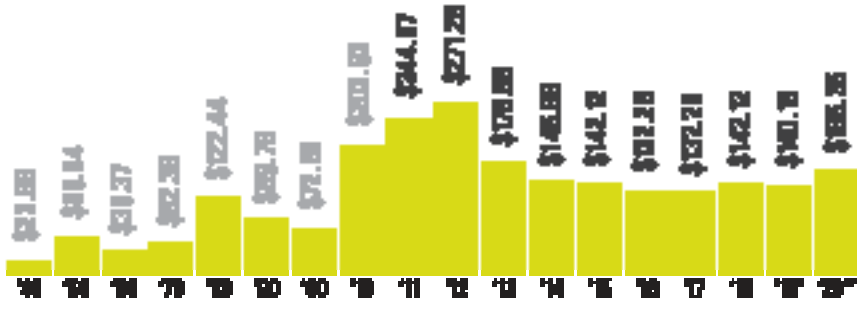
Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 – Aug. 2021

*estimated

U.S. CORN PRICES 1940–2020

(\$/metric ton)



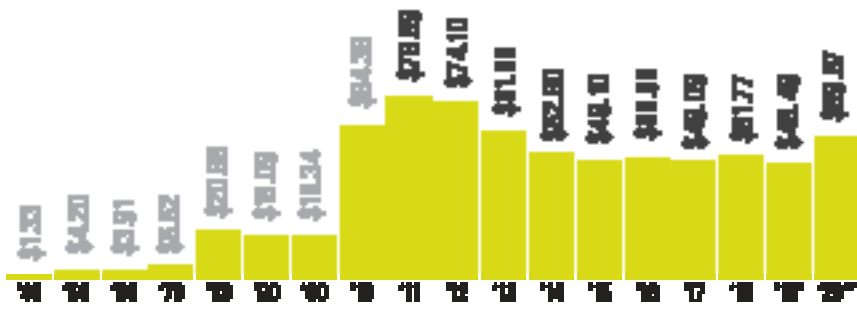
Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 – Aug. 2021

*estimated

U.S. CORN CROP VALUE 1940–2020

(\$ billion)



Source: USDA, NASS, Crop Production 2020 Summary, Jan. 12, 2021

** projected for crop year Sept. 2020 – Aug. 2021

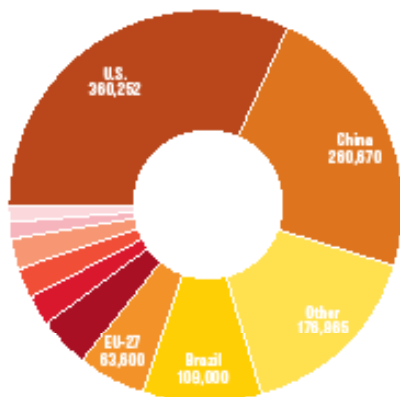
*estimated

GLOBAL CORN PRODUCTION

WORLD CORN PRODUCTION

2020 - 2021*

(million metric tons)



WORLD TOTAL
1,123,997

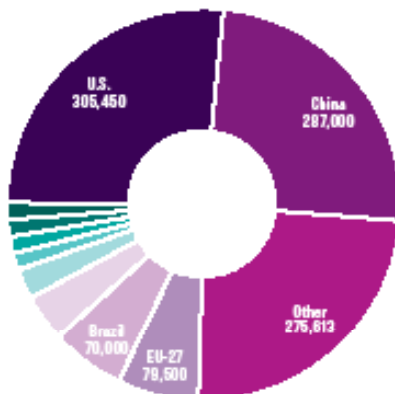
Source: USDA, FAS Grain: World Markets and Trade, Jan. 2021

*Marketing Year Oct. 1, 2020 - Sept. 30, 2021

WORLD CORN CONSUMPTION

2020 - 2021*

(million metric tons)



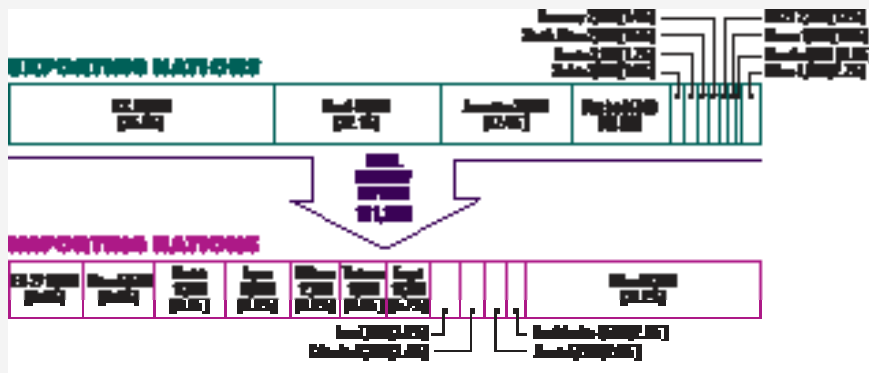
WORLD TOTAL
1,152,063

Source: USDA, FAS Grain: World Markets and Trade, Jan. 2021

*Marketing Year Oct. 1, 2020 - Sept. 30, 2021

WORLD CORN EXPORTS/IMPORTS 2020 - 2021*

(1,000 metric tons)



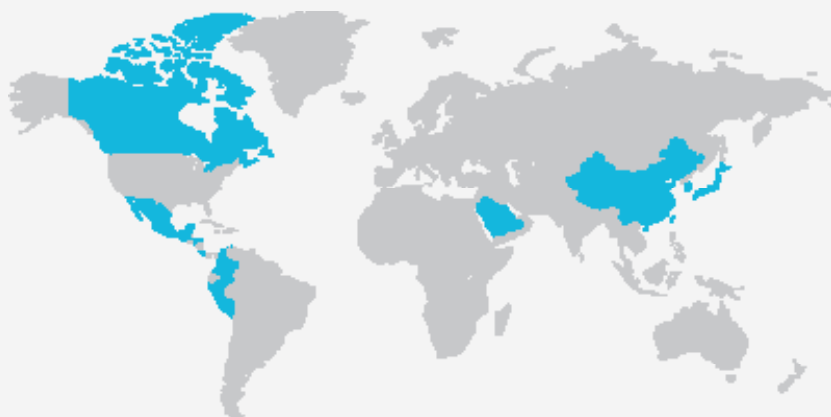
Source: USDA, FAS Grain: World Markets and Trade, Jan. 2021

*Marketing Year Oct. 1, 2020 - Sept. 30, 2021



U.S. CORN EXPORTS/LEADING MARKETS 2017 - 2020

(million metric tons)



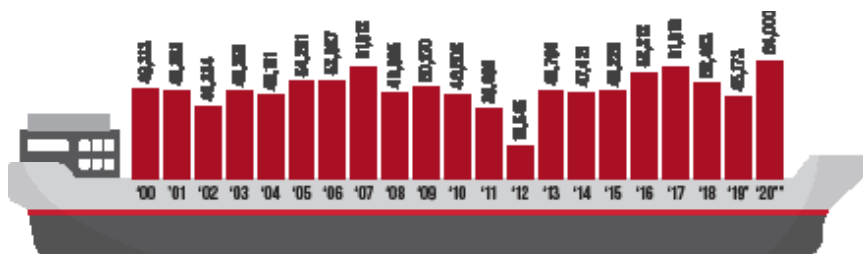
	2017-18	2018-19	2019-20
Mexico	15,715	16,123	14,503
Japan	13,210	13,227	10,023
Colombia	5,085	4,761	4,906
South Korea	5,732	3,748	2,626
China	307	259	2,095
Canada	1,663	2,461	1,714
Guatemala	864	1,216	1,163

	2017-18	2018-19	2019-20
Saudi Arabia	1,495	793	909
Costa Rica	836	871	822
Taiwan	2,461	2,034	807
Honduras	618	579	747
Peru	3,238	1,949	554
Other	10,694	4,460	4,304
Total	61,916	52,483	45,173

Source: USDA, ERS Feed Outlook Jan. 2021

U.S. CORN EXPORTS 2000 - 2020

(million metric tons)



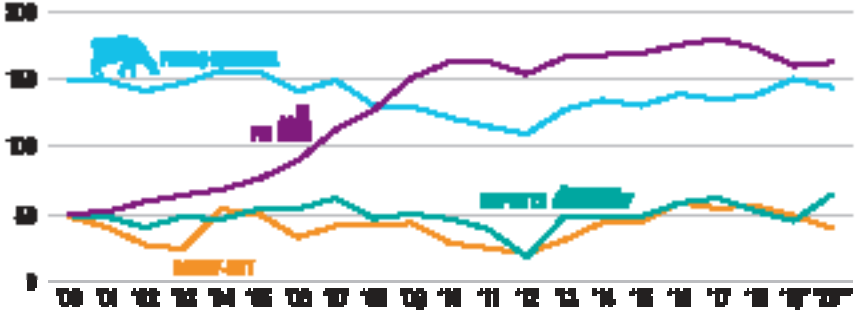
Source: USDA, WAOB, World Agriculture Supply & Demand Estimate, Jan. 15, 2021

*estimate
**projections

CORN CONSUMPTION OVERVIEW

CORN PROCESSED BY SEGMENT 2000 - 2020

(million metric tons)



Source: USDA, ERS Feed Outlook, Jan. 15, 2021

*estimated

**projected for crop year Sept. 2020 - Aug. 2021



Source: USDA, ERS Feed Outlook, Jan. 15, 2021

*estimated

**projected for crop year Sept. 2020 - Aug. 2021

U.S. CORN REVENUE PER HECTARE BY SEGMENT 2020 - 2021*

(\$/hectare)

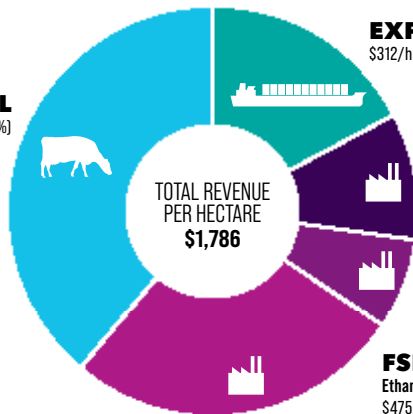
FEED & RESIDUAL
\$692/hectare (38.7%)

EXPORTS
\$312/hectare (17.5%)

FSI Other
\$175/hectare (9.8%)

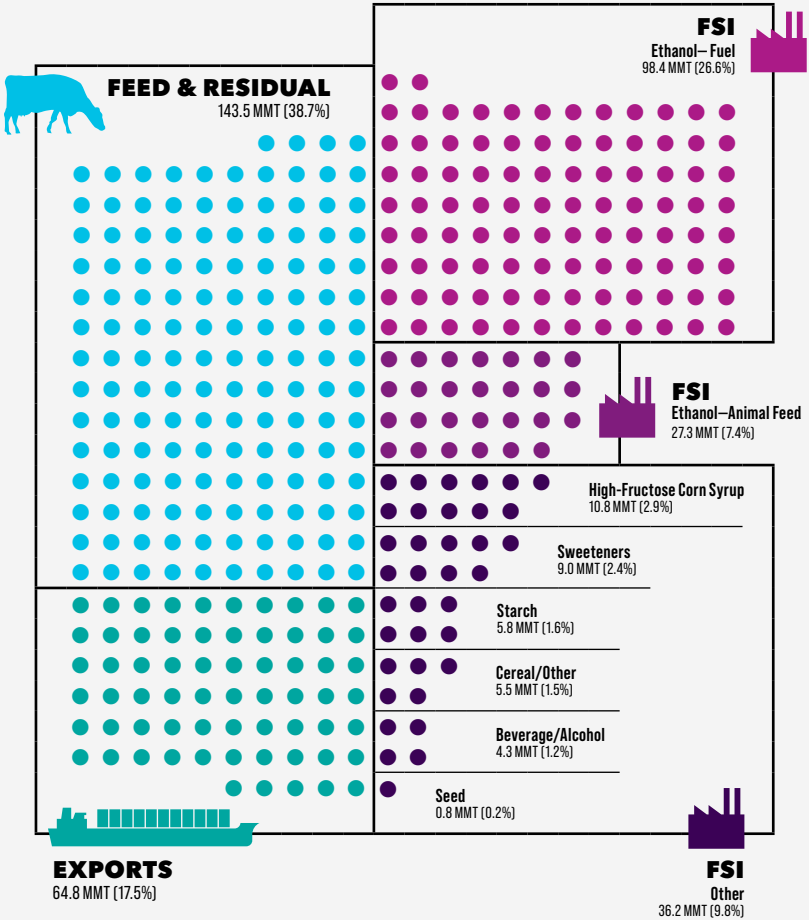
FSI Ethanol—Animal Feed
\$132/hectare (7.4%)

FSI Ethanol—Fuel
\$475/hectare (26.6%)



Source: USDA, ERS Feed Outlook, Jan. 15, 2021; ProExporter Network, Projected Crop Year Ending Aug. 31, 2021
*Assumes projected 2020 USDA Average Farm Price (\$165.35/MT) and Average Corn Yield (10.8 MT/hectare).

CORN USAGE BY SEGMENT 2020 (million metric tons)

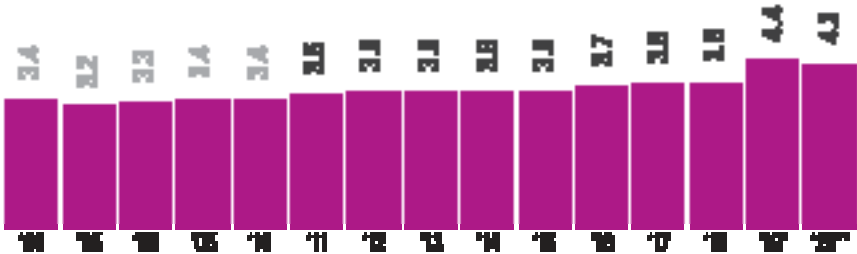


TOTAL DISAPPEARANCE
370.2
MILLION METRIC TONS

● = 1 MMT

BEVERAGES AND MANUFACTURING ALCOHOL 1990 - 2020

(million metric tons)



Source: USDA, ERS Feed Outlook Jan. 2021

**Crop Year Ending Aug. 31, 2021
*estimate **projections

HIGH-FRUCTOSE CORN SYRUP USAGE 1990 - 2020

(million metric tons)



Source: USDA, ERS Feed Outlook Jan. 2021

**Crop Year Ending Aug. 31, 2021
*estimate **projections

STARCH USAGE 1990 - 2020

(million metric tons)



Source: USDA, ERS Feed Outlook Jan. 2021

**Crop Year Ending Aug. 31, 2021
*estimate **projections

CEREAL AND FOOD 1990 - 2020

(million metric tons)

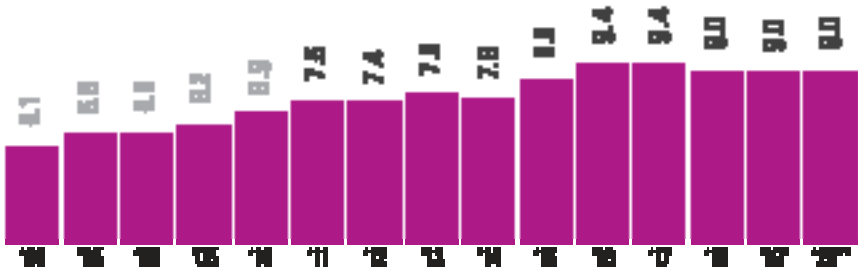


Source: USDA, ERS Feed Outlook Jan. 2021

**Crop Year Ending Aug. 31, 2021
*estimate **projections

GLUCOSE & DEXTROSE USAGE 1990 - 2020

(million metric tons)

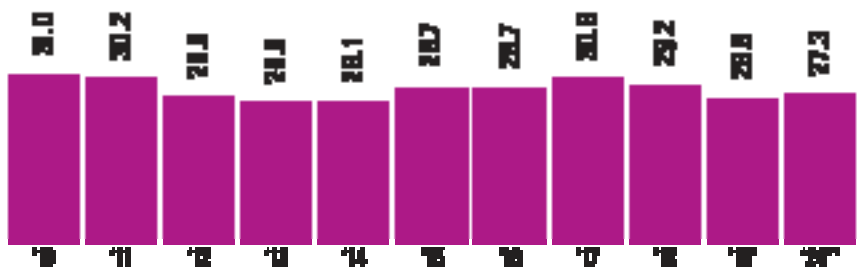


Source: USDA, ERS Feed Outlook Jan. 2021

**Crop Year Ending Aug. 31, 2021
*estimate **projections

CORN DISPLACED BY DDG/CGF IN DOMESTIC LIVESTOCK RATIOS 2010 - 2020

(million metric tons)

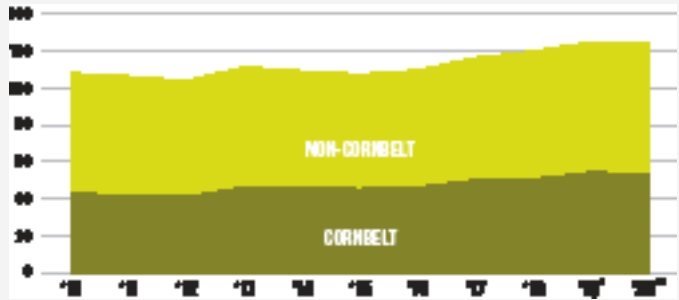


Source: ProExporter Network, Crop Year Ending Aug. 31, 2021

* projections

CORN CONSUMPTION FOOD + FEED

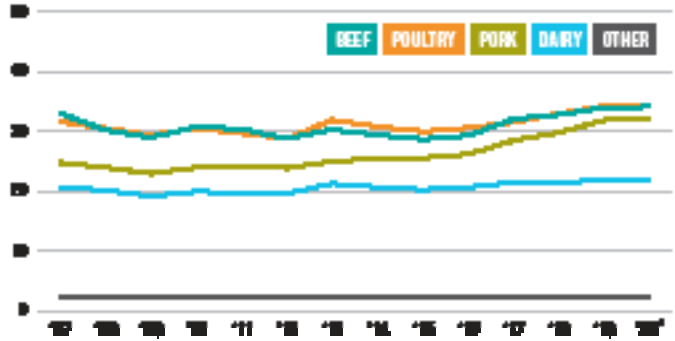
U.S. CORN FED BY REGION 2010 - 2020 (million metric tons)



Source: ProExporter Network, Crop Year Ending Aug. 31, 2021

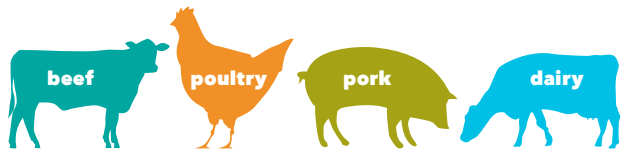
*estimate
**projections

CORN FED BY SPECIES 2007 - 2020 (million metric tons)

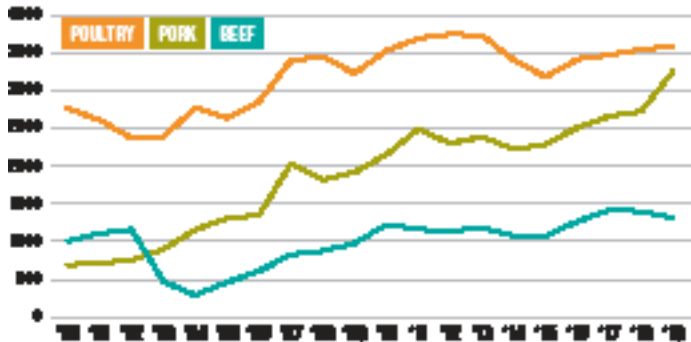


Source: ProExporter Network, Crop Year Ending Aug. 31, 2021

*projections



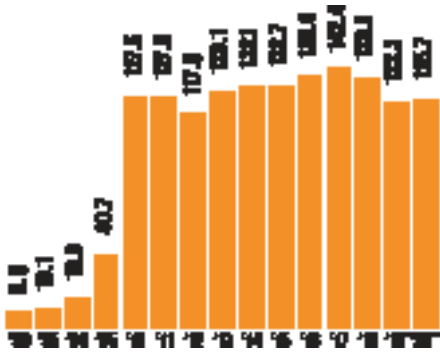
U.S. MEAT EXPORTS BY ANIMAL GROUP 2000 - 2019* (1,000 metric tons)



Source: USDA, ERS, Livestock and Meat International Trade Data, Jan. 8, 2021

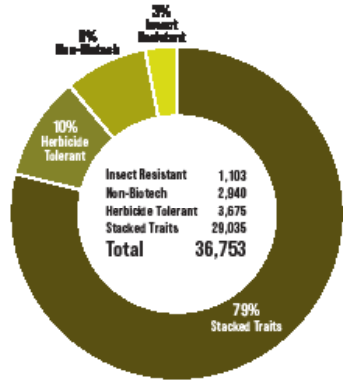
*Market year estimates (Sept. - Aug.)

**CORN USED FOR ETHANOL:
FUEL & CO-PRODUCTS
1990-2020**
(million metric tons)



Source: USDA, ERS Feed Outlook Jan. 15, 2021
**Crop Year Ending Aug. 31, 2021
*estimate **projections

**BIOTECH SHARE OF U.S. CORN
HECTARES PLANTED 2020***
(1,000 hectare)



Source: USDA, NASS, Quick Stats, Jan. 19, 2021
*projections

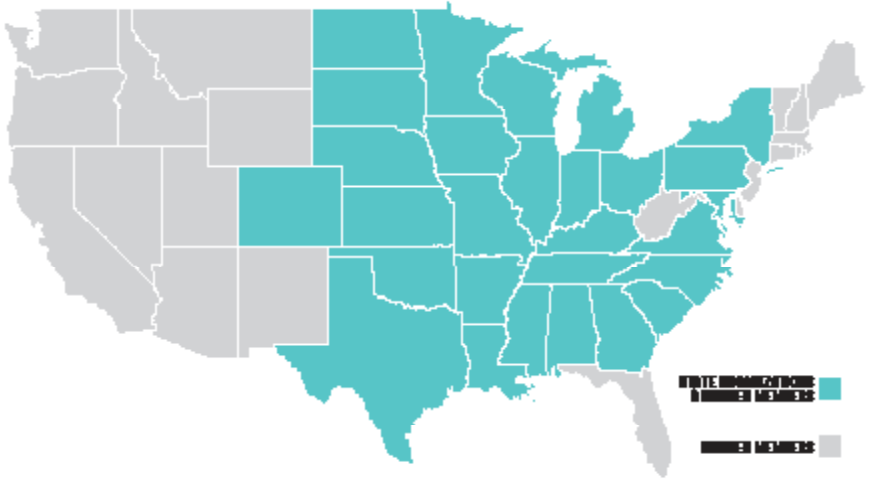
PERCENTAGE OF BIOTECH PLANTED 2018-2020

Year	Insect Resistant			Herbicide Tolerant			Stacked Traits			All Biotech Hybrids		
	'18	'19*	'20†	'18	'19*	'20†	'18	'19*	'20†	'18	'19*	'20†
IL	1	1	2	5	4	4	89	88	88	95	93	94
IN	2	2	3	7	9	9	77	76	74	86	87	86
IA	3	4	3	7	7	8	83	81	79	93	92	90
KS	2	1	4	10	12	11	84	82	81	96	95	96
MI	2	3	2	11	11	13	72	75	74	85	89	89
MN	1	2	4	9	8	9	83	80	79	93	90	92
MO	2	2	2	7	7	8	83	82	83	92	91	93
NE	3	3	3	9	8	9	84	85	82	96	96	94
ND	2	3	3	21	15	13	69	78	75	92	96	91
OH	2	2	3	14	11	13	70	76	71	86	89	87
SD	2	3	4	15	12	11	79	79	80	96	94	95
TX	6	6	8	12	9	8	75	80	76	93	95	92
WI	3	3	3	13	14	11	72	72	76	88	89	90
Other	4	3	4	15	13	14	71	75	73	90	91	91
Total	2	3	3	10	9	10	80	80	79	92	92	92

Source: USDA, NASS, Quick Stats, Jan. 19, 2021
*estimate †projections

Founded in 1957, the National Corn Growers Association represents nearly 40,000 dues-paying corn farmers nationwide and the interests of more than 300,000 growers who contribute through corn checkoff programs in their states. NCGA and its 50 affiliated state organizations work together to sustainably feed and fuel a growing world by creating and increasing opportunities for corn growers.

FOR MORE INFORMATION, VISIT WWW.NCGA.COM



National Corn Growers Association
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www.worldofcorn.com

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