

WORLD OF CORN 2022



ILCORN
WWW.ILCORN.ORG



**NATIONAL
CORN GROWERS
ASSOCIATION**

A LETTER FROM NCGA

With weathered hands, a spark in their eye and steel in their spines, corn farmers grow a world of possibilities from the soil. Bone-deep knowledge and unwavering resolve to improve every season grew into a new record-high national average yield at 177 bushels per acre this year. Yet, everything farmers build rests on the legacy bestowed upon them. We build a brighter future for the next generation, using technology and tools unimaginable only a few years ago. Every day we create the World of Corn as a team - no matter how far apart we are. Explore the World of Corn with us through these pages.



JON DOGGETT
CEO

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



CHRIS EDGINGTON
PRESIDENT

A handwritten signature in black ink, appearing to read 'Chris Edgington'.

20.5

**BUSHEL
ACRE**

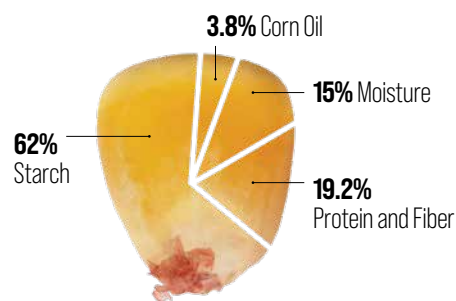
harvested in 1930

177

**BUSHEL
ACRE**

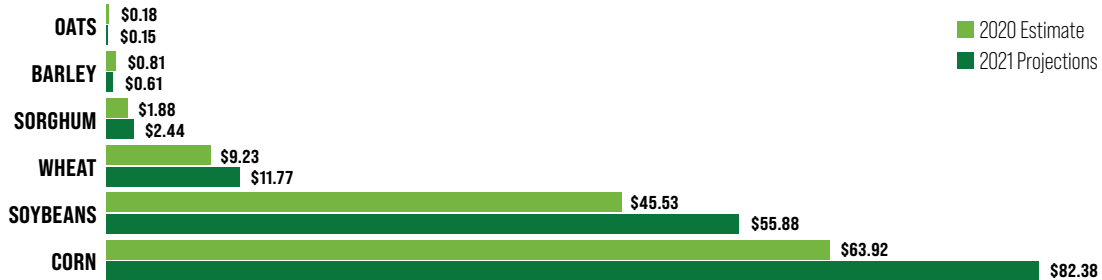
harvested in 2021

COMPONENTS OF YELLOW DENT CORN



Source: Corn Chemistry and Technology, 2000

U.S. SELECT CROP VALUE (\$ billion)



Source: USDA WASDE Jan. 15, 2022

U.S. ALL CROP ACRES HARVESTED 2020 - 2021

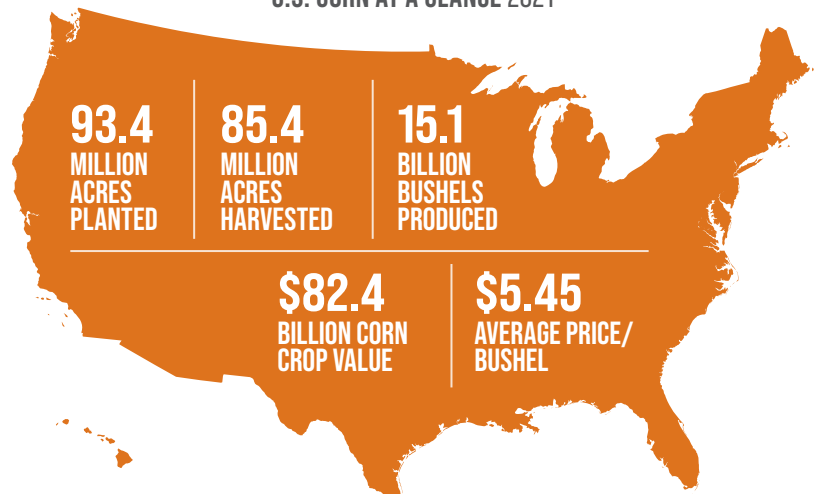
(1,000 acre)

	2020*	2021**
Corn (grain)	85,388	82,313
Corn (silage)	6,481	6,711
Soybeans	86,332	82,603
Hay	50,736	52,238
Wheat	37,163	36,789
Cotton	9,968	8,275
Sorghum (grain)	6,490	5,095
Sorghum (silage)	331	239
Rice	2,488	2,986
Canola	2,089	1,788
Barley	1,948	2,214
Peanuts	1,545	1,615
Dry Edible Beans	1,336	1,665
Sunflower	1,244	1,666
Sugar Beets	1,108	1,142
Sugar Cane	938	948
Potatoes	936	912
Dry Edible Peas	834	970
Proso Millet	662	509
Oats	650	1,009
Lentils	549	510
Chickpeas	351	251
Rye	294	330
Flaxseed	268	296
Tobacco	219	191
Safflower	135	128
Mustard Seed	89	91
Hops	61	59
Peppermint	44	49
Other	27	28
TOTAL	300,703	293,618

Source: USDA, NASS, Crop Production
2021 Summary, Jan. 12, 2022

*estimate **projections

U.S. CORN AT A GLANCE 2021



31.5

LBS. OF STARCH

Corn starch is preferred in many commercial food applications due to its translucent nature versus flour which is opaque.

Only the starch is used to make ethanol. The remaining nutrients, protein, fiber and oil, known as Dried Distillers Grains with Solubles are used as feed.

AVERAGE DRY-GRIND ETHANOL PROCESS:

2.9

GALLONS OF DENATURED FUEL ETHANOL

15.2

LBS. OF DISTILLERS GRAINS (10% MOISTURE)

0.8

LBS. OF CORN DISTILLERS OIL

1.1

LBS. OF BIOGENIC CARBON DIOXIDE

22.4

LBS. OF PLA FIBER/POLYMER

Corn starch can be used to create polylactic acid polymers. These can be processed into sustainable versions of fibers and plastics.

ONE BUSHEL OF CORN can provide one of the following four:

33

LBS. OF SWEETENER

Corn syrup is used as a sweetener, thickening agent and as a humectant, a water-absorbing ingredient helping food retain freshness.



U.S. CORN PRODUCTION

2021 U.S. CORN PRODUCTION BY STATE

	Acres Planted (1,000s)	Acres Harvested for Grain (1,000s)	Average Yield bu/acre	Total Production 1,000 bushels
AL	355	345	163	56,235
AR	850	830	184	152,720
AZ	95	18	181	3,258
CA	420	50	188	9,400
CO	1,380	1,150	129	148,350
CT	24	(NA)	(NA)	(NA)
DE	175	172	184	31,648
FL	95	66	176	11,616
GA	480	445	182	80,990
IA	12,900	12,450	205	2,552,250
ID	380	120	210	25,200
IL	11,000	10,850	202	2,191,700
IN	5,400	5,270	195	1,027,650
KS	5,700	5,400	139	750,600
KY	1,550	1,440	192	276,480
LA	580	565	183	103,395
MA	14	(NA)	(NA)	(NA)
MD	470	425	175	74,375
ME	30	(NA)	(NA)	(NA)
MI	2,350	1,990	174	346,260
MN	8,400	7,840	178	1,395,520
MO	3,600	3,430	160	548,800
MS	730	700	181	126,700
MT	120	60	100	6,000
NC	960	905	149	134,845
ND	4,100	3,630	105	381,150
NE	9,900	9,560	194	1,854,640
NH	13	(NA)	(NA)	(NA)
NJ	78	72	163	11,736
NM	120	39	184	7,176
NV	15	(NA)	(NA)	(NA)
NY	1,050	585	167	97,695
OH	3,550	3,340	193	644,620
OK	340	295	150	44,250
OR	95	55	240	13,200
PA	1,330	990	169	167,310
RI	2	(NA)	(NA)	(NA)
SC	400	380	139	52,820
SD	6,150	5,480	135	739,800
TN	1,020	960	170	163,200
TX	2,150	1,850	128	236,800
UT	70	19	179	3,401
VA	520	370	160	59,200
VT	85	(NA)	(NA)	(NA)
WA	165	85	248	21,080
WI	4,000	3,040	180	547,200
WV	51	38	144	5,472
WY	95	79	132	10,428
U.S.	93,357	85,388	177	15,115,170

Source: USDA, NASS, Quick Stats, Jan. 12, 2022

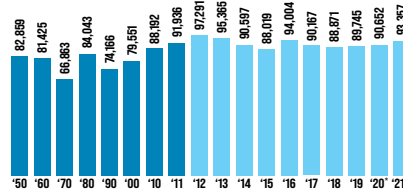
HISTORICAL CORN PERFORMANCE

1950-2021

U.S. CORN ACRES PLANTED

1950-2021

(1,000 acre)



Source: USDA, NASS, Crop Production 2021 Summary, Jan. 12, 2022

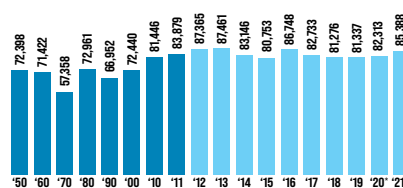
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. CORN ACRES HARVESTED

1950-2021

(1,000 acre)



Source: USDA, NASS, Crop Production 2021 Summary, Jan. 12, 2022

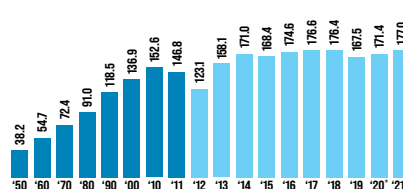
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. AVERAGE CORN YIELD

1950-2021

(bushels/acre)



Source: USDA, NASS, Crop Production 2021 Summary, Jan. 12, 2022

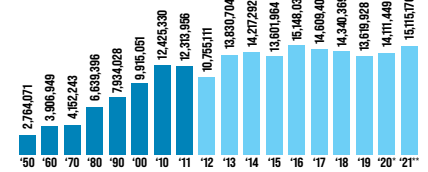
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. CORN PRODUCTION

1950-2021

(1,000 bu)



Source: USDA, NASS, Crop Production 2021 Summary, Jan. 12, 2022

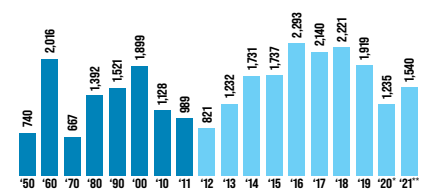
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. CORN ENDING STOCKS

1950-2021

(million bushels)



Source: USDA, NASS, Crop Production 2021 Summary, Jan. 12, 2022

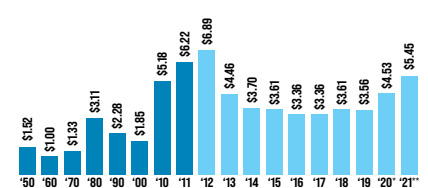
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. CORN PRICES

1950-2021

(\$/bu)



Source: USDA WASDE, Jan. 12, 2022

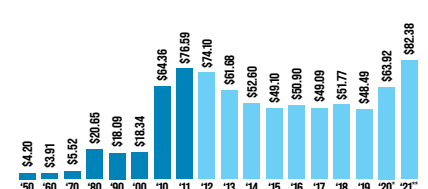
*estimated

** projected for crop year Sept. 2021 - Aug. 2022

U.S. CORN CROP VALUE

1950-2021

(\$ billion)



Source: USDA WASDE, Jan. 12, 2022

*estimated

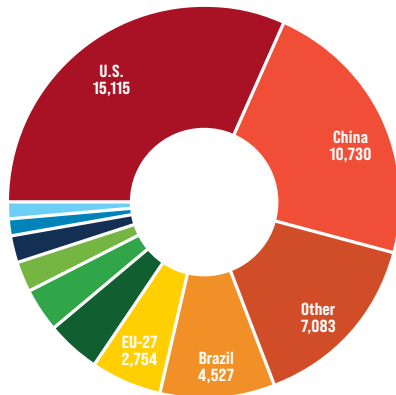
** projected for crop year Sept. 2021 - Aug. 2022

GLOBAL CORN PRODUCTION



WORLD CORN PRODUCTION 2021-2022*

(million bushels)



Argentina 2,126 Mexico 1,087
Ukraine 1,653 South Africa 669
India 1,181 Russia 591

**WORLD TOTAL
47,516**

Source: USDA, FAS Grain: World Markets and Trade, Jan. 2022

*Marketing Year Oct. 1, 2021 - Sept. 30, 2022

WORLD CORN EXPORTS/IMPORTS 2021-2022*

(million bushels)

EXPORTING NATIONS

U.S. 2,421 (31.7%)	Argentina 1,634 (21.4%)	Ukraine 1,319 (17.3%)	Brazil 1,220 (16.0%)
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**TOTAL
EXPORTS/
IMPORTS
7,638**

IMPORTING NATIONS

China 1,024 (13.4%)	Mexico 681 (8.9%)	Japan 614 (8.0%)	EU-27 591 (7.7%)	S Korea 461 (6.0%)	Vietnam 453 (5.9%)	Egypt 405 (5.3%)	Other 2,501 (32.7%)
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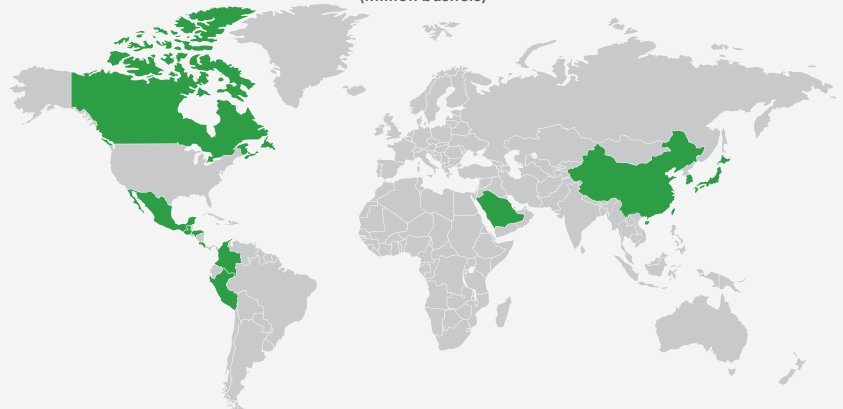
Iran 303 (4.0%) Colombia 240 (3.1%) Taiwan 177 (2.3%) Algeria 189 (2.5%)
India 98 (1.3%) South Africa 126 (1.6%) Russia 177 (2.3%) EU-27 193 (2.5%) Paraguay 87 (1.1%) Serbia 79 (1.0%) Burma 71 (0.9%) Other 214 (2.8%)

Source: USDA, FAS Grain: World Markets and Trade, Jan. 2022

*Marketing Year Oct. 1, 2021 - Sept. 30, 2022

U.S. CORN EXPORTS/LEADING MARKETS SINCE 2018

(million bushels)

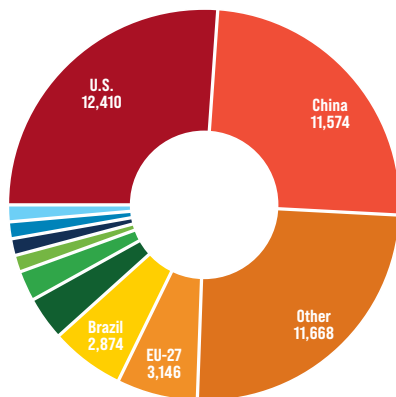


	2018-19	2019-20	2020-21		2018-19	2019-20	2020-21
China	10	82	845	Guatemala	48	46	49
Mexico	635	570	614	Costa Rica	34	32	32
Japan	521	395	442	Honduras	23	29	30
Colombia	187	193	155	Peru	77	22	28
South Korea	148	103	141	Saudi Arabia	31	36	28
Canada	97	68	71	Other	176	169	249
Taiwan	80	32	68	Total	2,066	1,777	2,753

Source: USDA, ERS Feed Outlook, Jan. 2022

WORLD CORN CONSUMPTION 2021-2022*

(million bushels)



Mexico 1,740 Japan 650
India 1,126 Vietnam 624
Egypt 661 Argentina 616

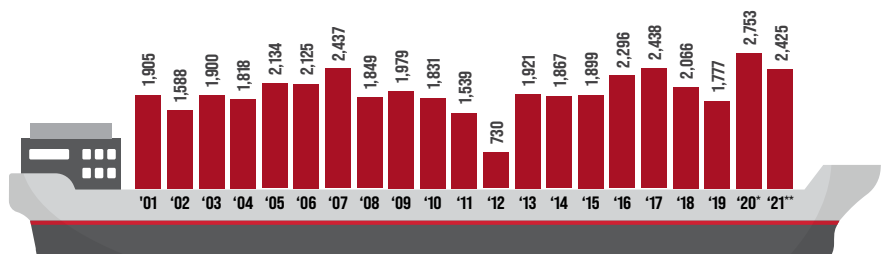
**WORLD TOTAL
47,089**

Source: USDA, FAS Grain: World Markets and Trade, Jan. 2022

*Marketing Year Oct. 1, 2021 - Sept. 30, 2022

U.S. CORN EXPORTS 2001-2021

(million bushels)



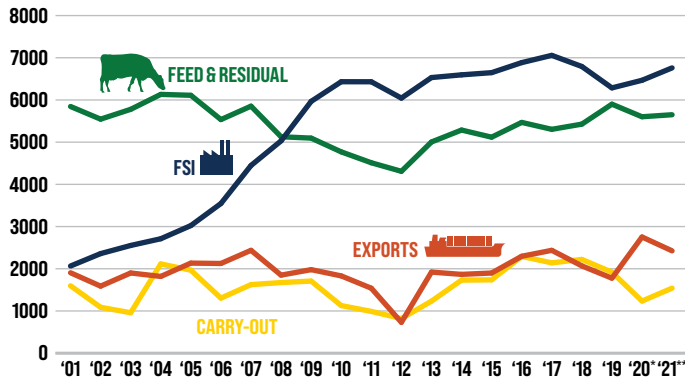
Source: USDA, ERS, Feed Grains Yearbook, Jan. 18, 2022

*estimate
**projections

CORN CONSUMPTION OVERVIEW

CORN PROCESSED BY SEGMENT 2001 - 2021

(million bushels)



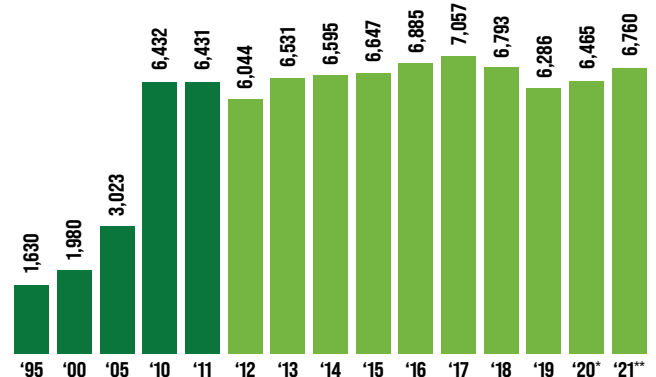
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimated

**projected for crop year Sept. 2021 - Aug. 2022

FOOD/SEED/INDUSTRIAL USAGE 1995 - 2021

(million bushels)



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimated

**projected for crop year Sept. 2021 - Aug. 2022

CORN USAGE BY SEGMENT 2021

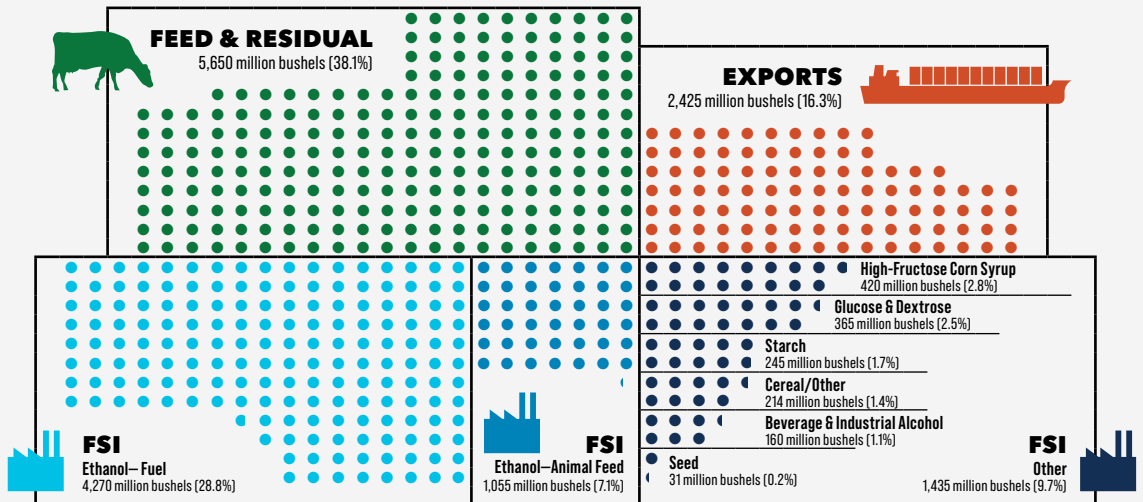
(million bushels)

TOTAL DISAPPEARANCE

14,835

MILLION BUSHELLS

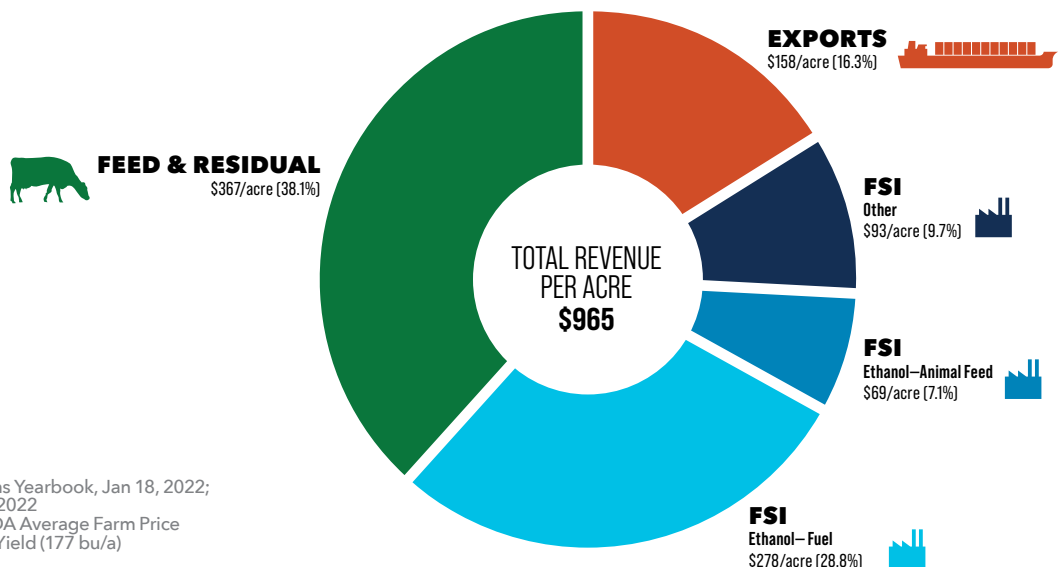
● = 25 million bushels



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022; ProExporter Network, Jan. 17, 2022, Projected Crop Year Ending Aug. 31, 2022

U.S. CORN REVENUE PER ACRE BY SEGMENT 2021 - 2022*

(\$/acre)

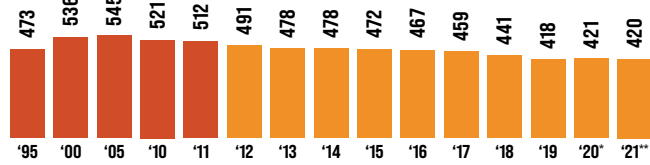


Source: USDA, ERS Feed Grains Yearbook, Jan 18, 2022; ProExporter Network, Jan 17, 2022

*Assumes projected 2021 USDA Average Farm Price (\$5.45/bu) and Average Corn Yield (177 bu/a)

HIGH-FRUCTOSE CORN SYRUP USAGE 1995 - 2021

(million bushels)



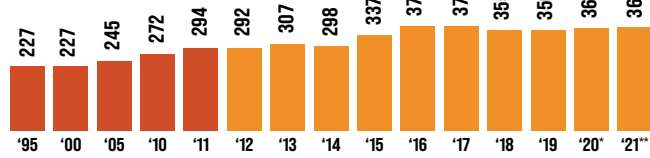
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate

**projections, Crop Year Ending Aug. 31, 2022

GLUCOSE & DEXTROSE USAGE 1995 - 2021

(million bushels)



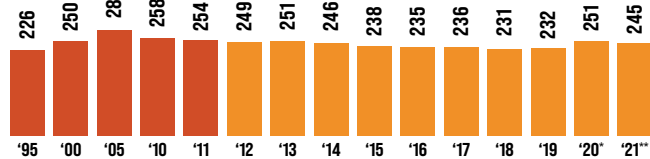
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate

**projections, Crop Year Ending Aug. 31, 2022

STARCH USAGE 1995 - 2021

(million bushels)



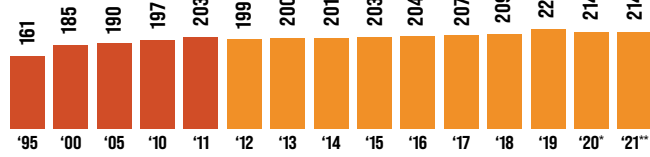
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate

**projections, Crop Year Ending Aug. 31, 2022

CEREAL AND FOOD 1995 - 2021

(million bushels)



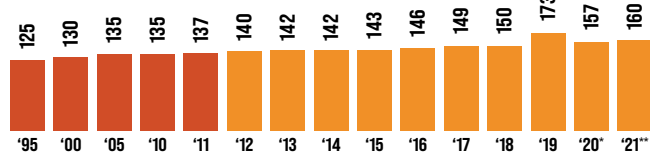
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate

**projections, Crop Year Ending Aug. 31, 2022

BEVERAGE & INDUSTRIAL ALCOHOL 1995 - 2021

(million bushels)



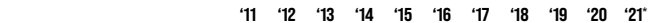
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate

**projections, Crop Year Ending Aug. 31, 2022

CORN DISPLACED BY DDG/CGF IN DOMESTIC LIVESTOCK RATIOS 2011 - 2021

(million bushels)

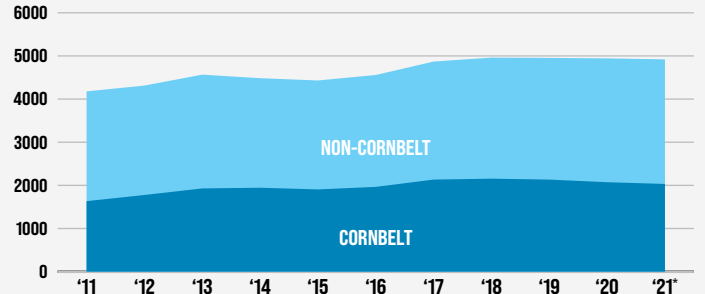


Source: ProExporter Network, Crop Year Ending Aug. 31, 2022

* projections

U.S. CORN FED BY REGION 2011 - 2021

(million bushels)

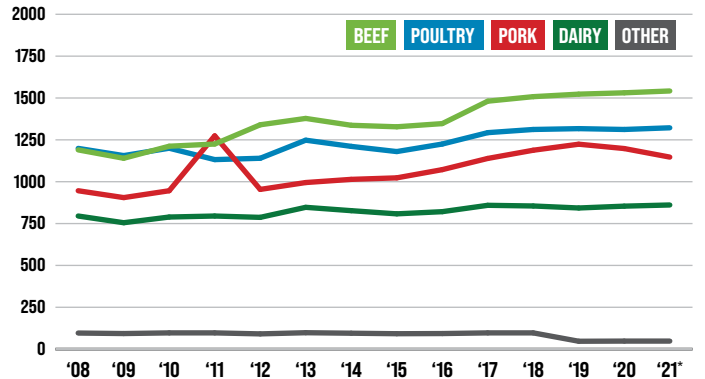


Source: ProExporter Network, Crop Year Ending Aug. 31, 2022

*projections

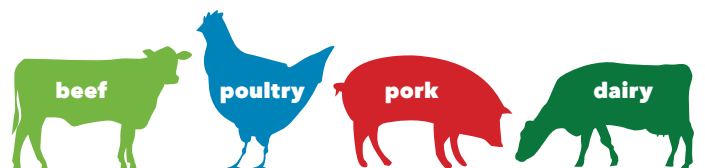
CORN FED BY SPECIES 2008 - 2021

(million bushels)



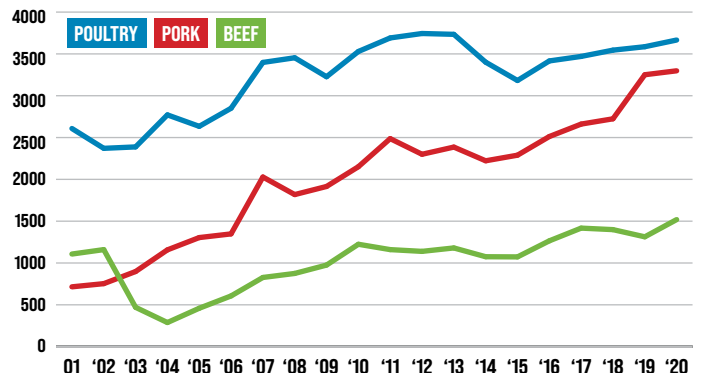
Source: ProExporter Network, Crop Year Ending Aug. 31, 2022

*projections



U.S. MEAT EXPORTS BY ANIMAL GROUP 2001 - 2020*

(thousand metric tons)



Source: USDA, ERS, Livestock and Meat International Trade Data, Jan. 7, 2022

*Market year estimates (Sept. - Aug.)

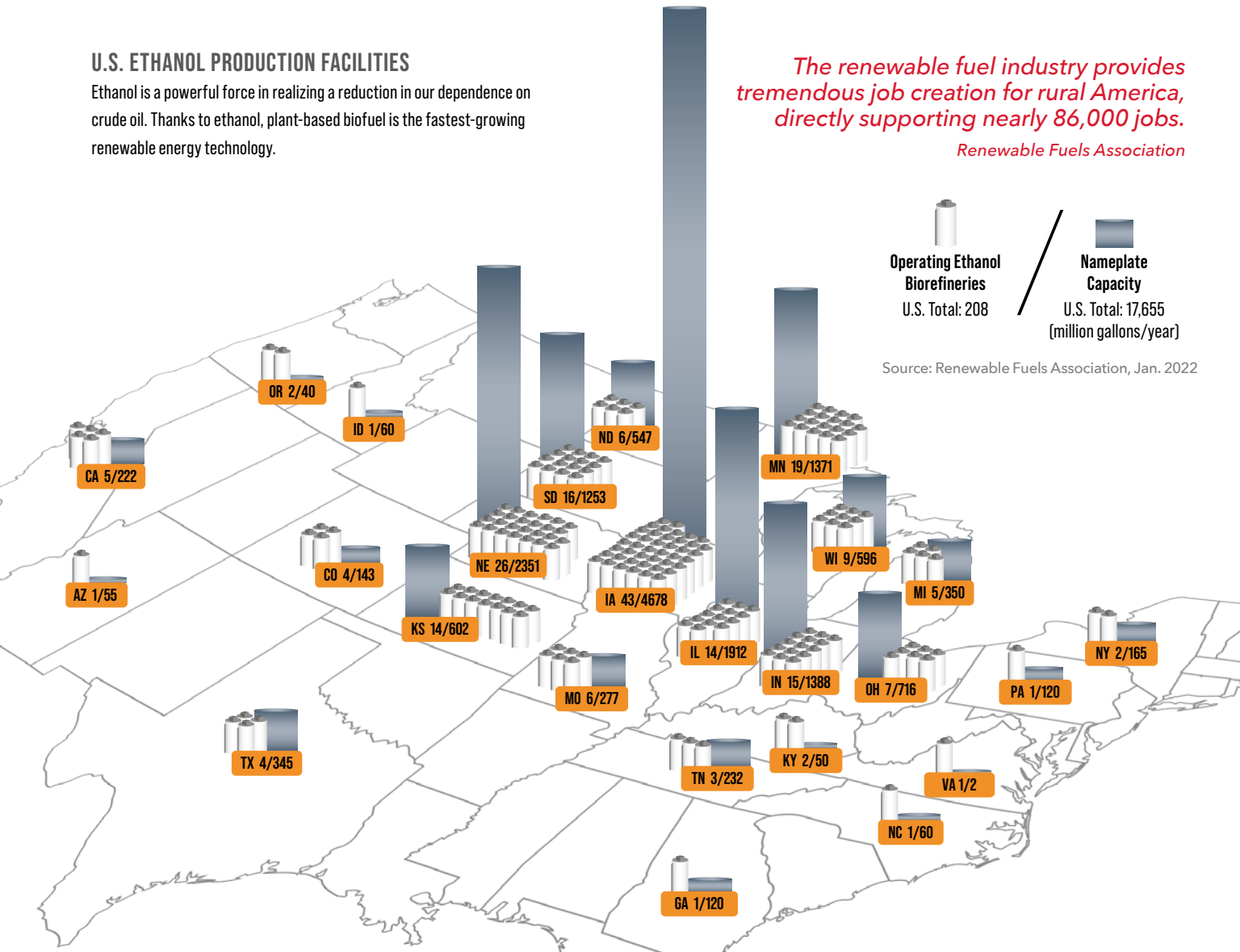
CORN CONSUMPTION ETHANOL

U.S. ETHANOL PRODUCTION FACILITIES

Ethanol is a powerful force in realizing a reduction in our dependence on crude oil. Thanks to ethanol, plant-based biofuel is the fastest-growing renewable energy technology.

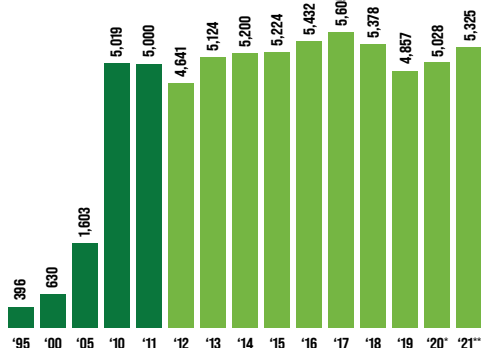
The renewable fuel industry provides tremendous job creation for rural America, directly supporting nearly 86,000 jobs.

Renewable Fuels Association



CORN USED FOR ETHANOL: FUEL & CO-PRODUCTS

1995–2021
(million bushels)



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2022

*estimate
**projections, Crop Year Ending Aug. 31, 2022

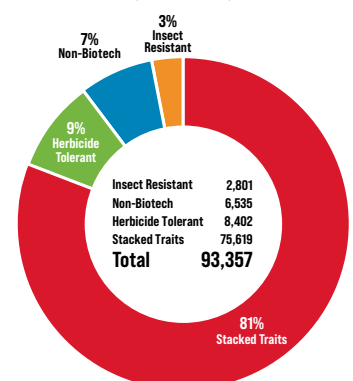
PERCENTAGE OF BIOTECH ACREAGE 2019–2021

Year	Insect Resistant			Herbicide Tolerant			Stacked Traits			All Biotech Hybrids		
	'19	'20*	'21†	'19	'20*	'21†	'19	'20*	'21†	'19	'20*	'21†
IL	1	2	2	4	4	4	88	88	86	93	94	92
IN	2	3	2	9	9	7	76	74	78	87	86	87
IA	4	3	4	7	8	9	81	79	80	92	90	93
KS	1	4	1	12	11	8	82	81	84	95	96	93
MI	3	2	3	11	13	12	75	74	76	89	89	91
MN	2	4	2	8	9	8	80	79	84	90	92	94
MO	2	2	2	7	8	5	82	83	84	91	93	91
NE	3	3	2	8	9	4	85	82	91	96	94	97
ND	3	3	3	15	13	12	78	75	77	96	91	92
OH	2	3	5	11	13	14	76	71	70	89	87	89
SD	3	4	3	12	11	8	79	80	83	94	95	94
TX	6	8	3	9	8	9	80	76	80	95	92	92
WI	3	3	3	14	11	12	72	76	76	89	90	91
Other	3	4	3	13	14	15	75	73	73	91	91	92
Total	3	3	3	9	10	9	80	79	81	92	92	93

Source: USDA, NASS, Quick Stats, Jan. 12, 2022
*estimate †projections

BIOTECH SHARE OF U.S. CORN ACRES PLANTED 2021*

(1,000 acres)



Source: USDA, NASS, Quick Stats, Jan. 12, 2022
*projections



Sustaining

healthy crops

At Bayer, we think of crop science as a journey. A journey to a sustainable world that grows more with less. We're pioneering new technologies, expanding education, and supporting farmers and growers. Together, we can improve lives through a food system that is better for farmers, consumers, and the planet.

 Science for a **better life**



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healthy crops

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 Science for a **better life**

CORN PROCESSING

Corn Refiners Association

(202) 331-1634
www.corn.org

North American Millers' Association

(202) 484-2200
www.namamillers.org

CORN INPUT

American Seed Trade Association

(703) 837-8140
www.betterseed.org

CropLife America

(202) 296-1585
www.croplifeamerica.org

The Fertilizer Institute

(202) 962-0490
www.tfi.org

CORN EXPORTS

U.S. Grains Council

(202) 789-0789
www.grains.org

FOOD AND SNACK CORN

Popcorn Board

(312) 644-6610
www.popcorn.org

SNC International

(703) 836-4500
www.snacintl.org

CORN FUTURES

CME Group

(800) 438-8616
www.cmegroup.com

RENEWABLE FUELS

American Coalition for Ethanol

(605) 334-3381
www.ethanol.org

Growth Energy

(202) 545-4000
www.growthenergy.org

Renewable Fuels Association

(202) 289-3835
www.ethanolrfa.org

LIVESTOCK & FEED

American Feed Industry Association

(703) 524-0810
www.afia.org

National Cattlemen's Beef Association

(303) 694-0305
www.beefusa.org

National Grain & Feed Association

(202) 289-0873
www.ngfa.org

National Pork Board

(515) 223-2600
www.pork.org

National Pork Producers Council

(202) 347-3600
www.nppc.org

US Poultry & Egg Association

(770) 493-9401
www.uspoultry.org

STATE ORGANIZATIONS

Alabama Soybean and Corn Growers Association

(256) 882-3369
Mark Hall, Executive Director
mark@alabamasoycorn.org
www.alabamasoycorn.org

Alabama Wheat and Feed Grains Producers

(334) 613-4216
Carla Moore Hornady, Director
chornady@alfafarmers.org

Arkansas Corn and Grain Sorghum Board

(501) 228-1628
Mark Lambert, Executive Director
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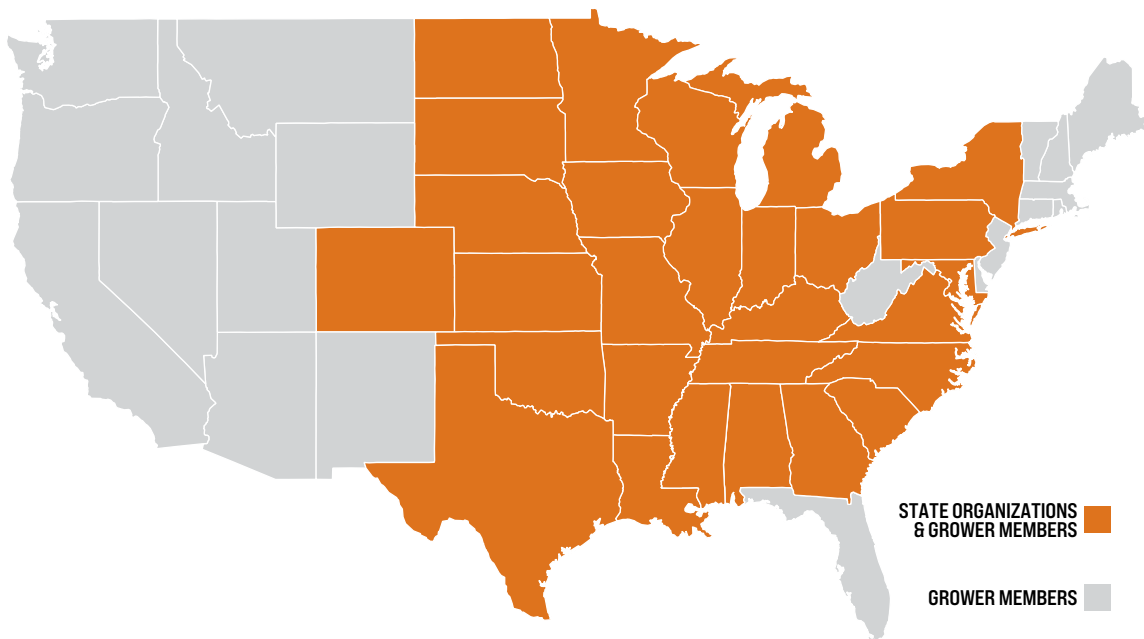
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