



If this land had to be
put in anybody's hands,
let us all be thankful
it's been put in ours.

WORLD OF CORN 2023



A LETTER FROM NCGA

In 2022, America's farmers proved what they can accomplish when they are all in for corn. Grit, passion, and an innate perseverance drives farmers to achieve no matter what they face. NCGA believes every farmer matters and is part of something bigger than themselves. 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.



TOM HAAG
CEO

Tom Haag

20.5

**BUSHELS
ACRE**

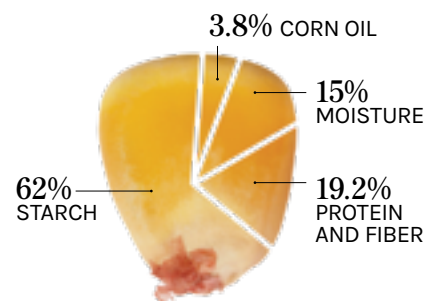
harvested in 1930

173

**BUSHELS
ACRE**

harvested in 2022

COMPONENTS OF YELLOW DENT CORN



Source: Corn Chemistry and Technology, 2000

U.S. ALL CROP ACRES HARVESTED 2021 – 2022

(1,000 acre)

	2021*	2022**
Corn (grain)	85,318	79,207
Corn (silage)	6,445	6,860
Soybeans	86,312	86,336
Hay	50,736	49,546
Wheat	37,145	35,480
Cotton	10,272	7,441
Sorghum (grain)	6,490	4,570
Sorghum (silage)	331	525
Barley	1,990	2,433
Rice	2,485	2,172
Canola	2,089	2,169
Sunflower	1,246	1,607
Peanuts	1,540	1,385
Dry Edible Beans	1,327	1,223
Sugar Beets	1,108	1,137
Sugar Cane	935	929
Potatoes	924	896
Oats	650	890
Dry Edible Peas	846	862
Lentils	567	602
Proso Millet	663	507
Chickpeas	349	342
Rye	294	341
Flaxseed	270	244
Tobacco	214	202
Mustard Seed	89	182
Safflower	134	135
Hops	61	60
Peppermint	42	34
Other	27	24
TOTAL	300,900	288,340

Source: USDA, NASS, Crop Production 2022 Summary, Jan. 12, 2023

*estimate **projected for crop year Sept. 2022 - Aug. 2023

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

17

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:

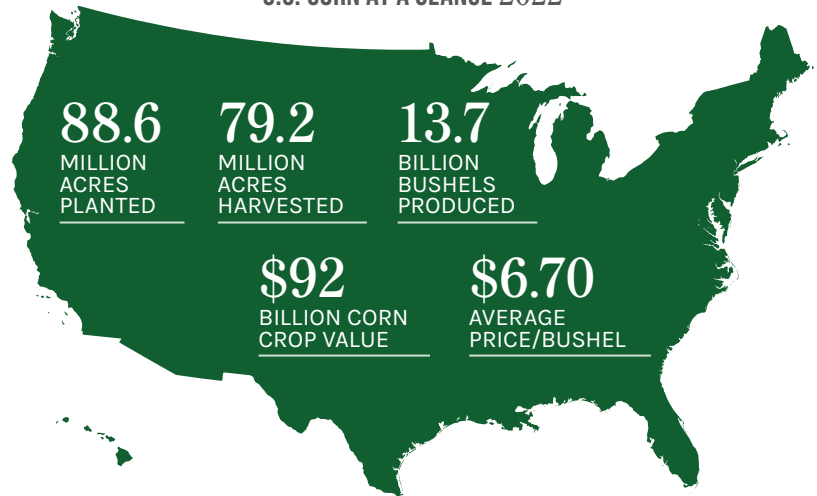
Corn syrup is used as a sweetener, thickening agent and as a humectant, a water-absorbing ingredient helping food retain freshness.

33

LBS. OF SWEETENER

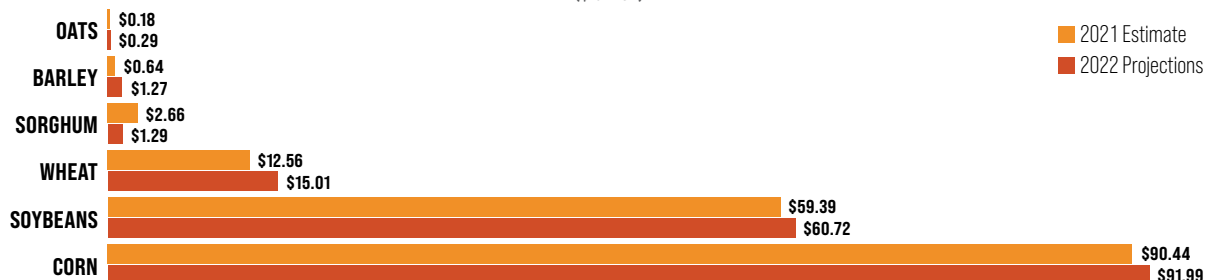
* RFA's 2022 Pocket Guide to Ethanol

U.S. CORN AT A GLANCE 2022



U.S. SELECT CROP VALUE

(\$ billion)



Source: USDA WASDE, Jan. 12, 2023

2022 U.S. CORN PRODUCTION BY STATE

	Acres Planted (1,000s)	Acres Harvested for Grain (1,000s)	Average Yield bu/acre	Total Bushels of Production (1,000s)
AL	300	290	118	34,220
AR	710	695	173	120,235
AZ	80	40	220	8,800
CA	370	20	177	3,540
CO	1,350	980	121	118,580
CT	25	(NA)	(NA)	(NA)
DE	170	167	170	28,390
FL	85	56	164	9,184
GA	425	385	175	67,375
IA	12,900	12,400	200	2,480,000
ID	320	110	216	23,760
IL	10,800	10,600	214	2,268,400
IN	5,250	5,130	190	974,700
KS	5,500	4,440	115	510,600
KY	1,440	1,350	156	210,600
LA	450	435	170	73,950
MA	14	(NA)	(NA)	(NA)
MD	440	380	165	62,700
ME	29	(NA)	(NA)	(NA)
MI	2,350	2,000	168	336,000
MN	8,000	7,490	195	1,460,550
MO	3,350	3,120	161	502,320
MS	580	565	165	93,225
MT	130	69	112	7,728
NC	830	785	126	98,910
ND	2,950	2,670	131	349,770
NE	9,600	8,820	165	1,455,300
NH	13	(NA)	(NA)	(NA)
NJ	76	67	115	7,705
NM	100	36	149	5,364
NV	14	(NA)	(NA)	(NA)
NY	1,030	575	140	80,500
OH	3,400	3,180	187	594,660
OK	350	200	122	24,400
OR	75	45	237	10,665
PA	1,180	840	140	117,600
RI	2	(NA)	(NA)	(NA)
SC	320	300	122	36,600
SD	5,750	5,010	132	661,320
TN	840	795	130	103,350
TX	2,150	1,610	95	152,950
UT	70	16	165	2,640
VA	450	340	167	56,780
VT	90	(NA)	(NA)	(NA)
WA	130	75	220	16,500
WI	3,950	3,030	180	545,400
WV	46	35	168	5,880
WY	95	56	153	8,568
U.S.	88,579	79,207	173.3	13,729,719

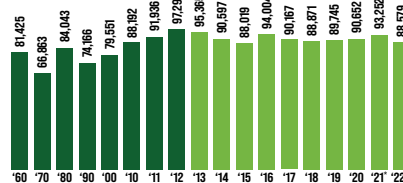
Source: USDA, NASS, Quick Stats, Jan. 12, 2023

HISTORICAL CORN
PERFORMANCE

1960 – 2022

U.S. CORN ACRES PLANTED
1960 – 2022

(thousand acres)



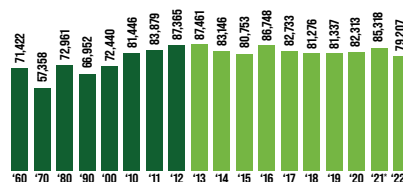
Source: USDA, NASS, Quick Stats, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN ACRES HARVESTED
1960 – 2022

(thousand acres)



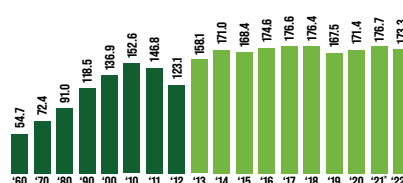
Source: USDA, NASS, Quick Stats, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. AVERAGE CORN YIELD
1960 – 2022

(bushels/acre)

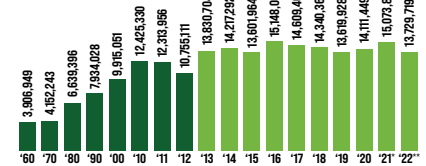
Source: USDA, NASS, Crop Production
2022 Summary, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN PRODUCTION
1960 – 2022

(thousand bushels)

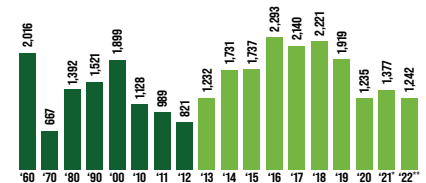
Source: USDA, NASS, Crop Production
2022 Summary, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN ENDING STOCKS
1960 – 2022

(million bushels)

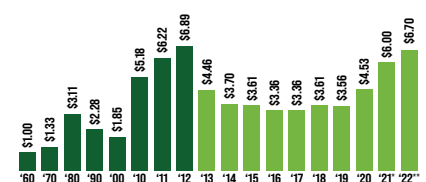
Source: USDA, ERS, Feed Grains Yearbook,
Jan. 18, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN PRICES
1960 – 2022

(\$/bushel)



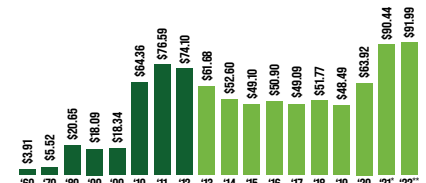
Source: USDA WASDE, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN CROP VALUE
1960 – 2022

(\$ billion)



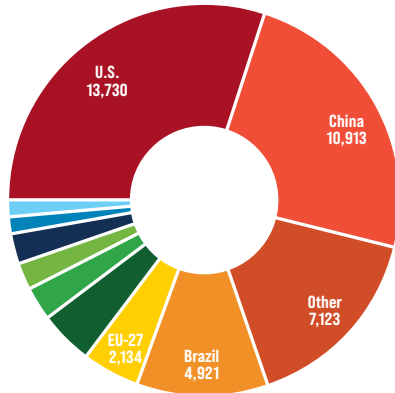
Source: USDA WASDE, Jan. 12, 2023

*estimated

** projected for crop year Sept. 2022 – Aug. 2023

WORLD CORN PRODUCTION 2022 – 2023*

(million bushels)



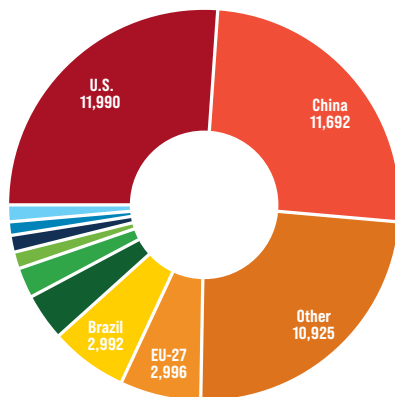
WORLD TOTAL
45,507

Source: USDA, FAS Grain: World Markets and Trade, Jan. 12, 2023

*projected for marketing year Oct. 1, 2022 – Sept. 30, 2023

WORLD CORN CONSUMPTION 2022 – 2023*

(million bushels)



WORLD TOTAL
45,882

Source: USDA, FAS Grain: World Markets and Trade, Jan. 12, 2023

*projected for marketing year Oct. 1, 2022 – Sept. 30, 2023

WORLD CORN EXPORTS/IMPORTS 2022 – 2023*

(million bushels)

EXPORTING NATIONS

U.S. 2,008 (28.2%)	Brazil 1,909 (26.8%)	Argentina 1,457 (20.4%)	Ukraine 807 (11.3%)
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India 110 (1.5%)
Paraguay 130 (1.8%)
Russia 130 (1.8%)
South Africa 134 (1.9%)
Burma 96 (1.4%)
EU-27 87 (1.2%)
Canada 63 (0.9%)
Other 196 (2.7%)

**TOTAL
EXPORTS/
IMPORTS**
7,126

IMPORTING NATIONS

China 846 (11.9%)	Mexico 709 (9.9%)	Japan 677 (9.5%)	EU-27 591 (8.3%)	S. Korea 433 (6.1%)	Vietnam 382 (5.4%)	Egypt 362 (5.1%)	Iran 335 (4.7%)
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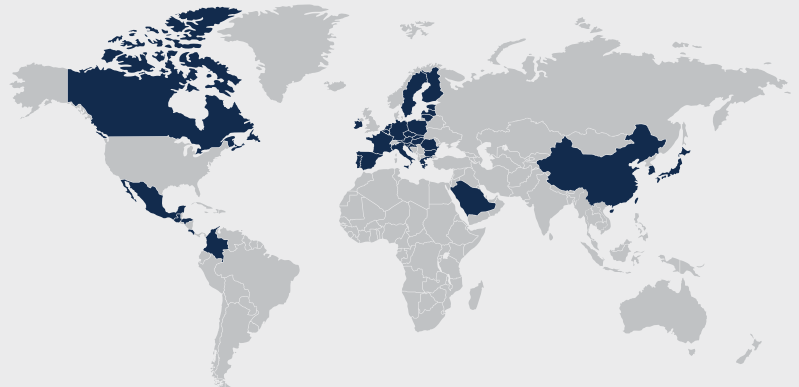
Colombia 236 (3.3%)
Saudi Arabia 177 (2.5%)
Taiwan 157 (2.2%)
Algeria 157 (2.2%)

Source: USDA, FAS Grain: World Markets and Trade, Jan. 12, 2023

*projected for marketing year Oct. 1, 2022 – Sept. 30, 2023

U.S. CORN EXPORTS/LEADING MARKETS SINCE 2019

(million bushels)



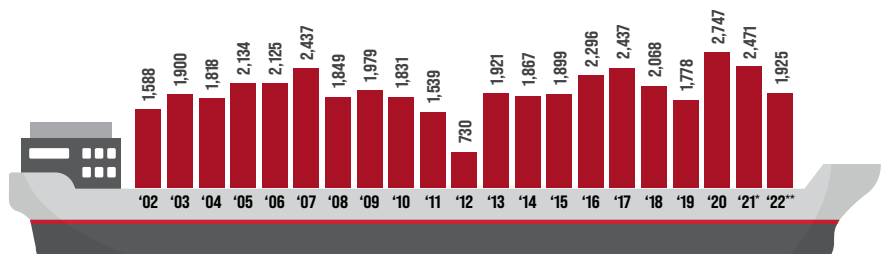
	2019-20	2020-21	2021-22		2019-20	2020-21	2021-22
Mexico	570	614	662	Honduras	29	30	34
China	82	846	579	Taiwan	32	65	32
Japan	396	440	400	Saudi Arabia	36	28	30
Canada	68	71	240	EU-27	0	1	29
Colombia	193	155	173	Costa Rica	32	30	29
South Korea	103	141	54	Other	176	277	158
Guatemala	46	49	52	Total	1,778	2,747	2,471

Source: USDA, ERS, Feed Grains Yearbook, Jan. 18, 2023

*Crop year Sept. – Aug.

U.S. CORN EXPORTS 2002 – 2022

(million bushels)



Source: USDA, ERS, Feed Grains Yearbook, Jan. 18, 2023

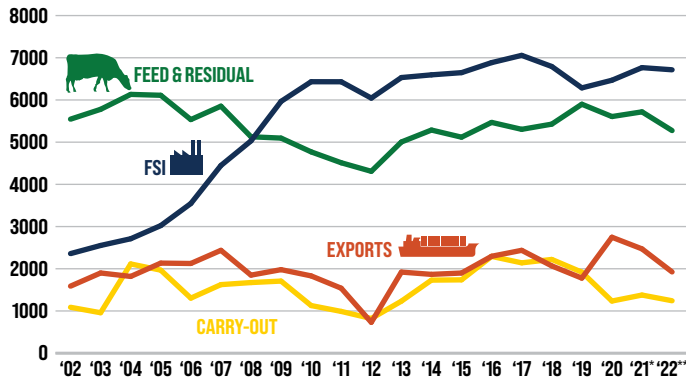
*estimated

**projected for crop year Sept. 2022 – Aug. 2023

CORN CONSUMPTION OVERVIEW

CORN USAGE BY SEGMENT 2002 – 2022

(million bushels)



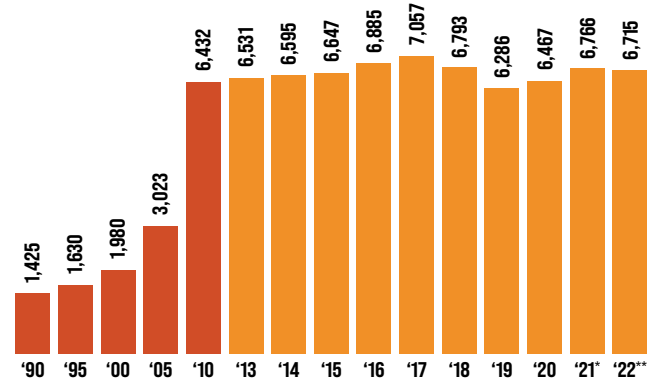
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

FOOD/SEED/INDUSTRIAL USAGE 1990 – 2022

(million bushels)



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

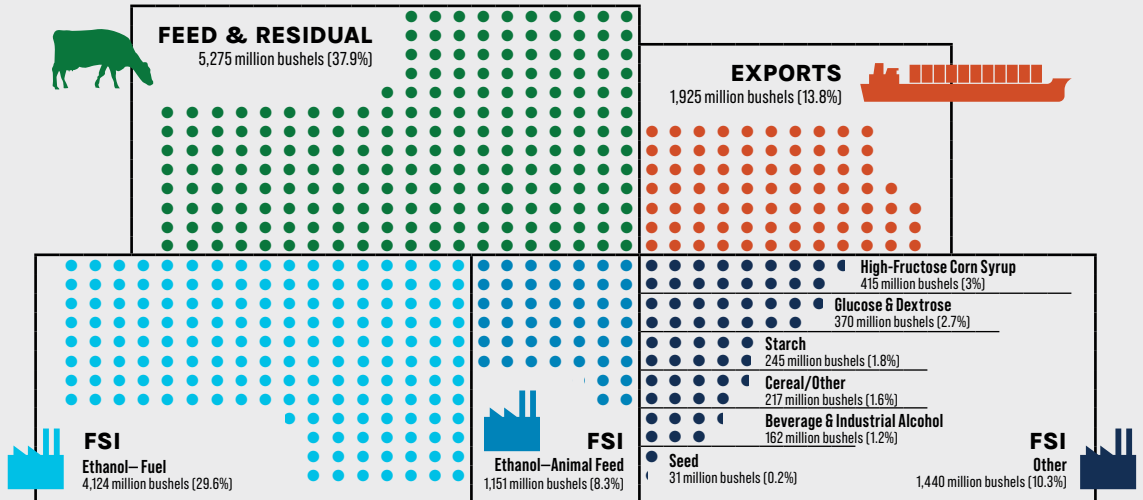
**projected for crop year Sept. 2022 – Aug. 2023

CORN USAGE BY SEGMENT 2022 – 2023*

(million bushels)

TOTAL DISAPPEARANCE
13,915
MILLION BUSHELS

● = 25 million bushels



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023; ProExporter Network, Jan. 17, 2023

*projected for crop year Sept. 2022 – Aug. 2023

U.S. CORN REVENUE PER ACRE BY SEGMENT 2022 – 2023*

(\$/acre)

FEED & RESIDUAL
\$440/acre (37.9%)

EXPORTS
\$161/acre (13.8%)

FSI Other
\$120/acre (10.3%)

FSI Ethanol-Animal Feed
\$96/acre (8.3%)

FSI Ethanol-Fuel
\$344/acre (29.6%)

TOTAL REVENUE PER ACRE
\$1,161

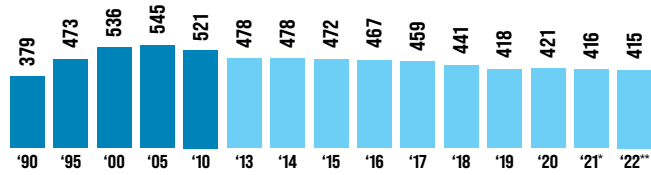
Source: USDA, ERS Feed Grains Yearbook, Jan 18, 2023; ProExporter Network, Jan 17, 2023

*projected for crop year Sept. 2022 – Aug. 2023

*Assumes projected 2022 USDA Average Farm Price (\$6.70/bushel) and Average Corn Yield (173.3 bushels/acre)

HIGH-FRUCTOSE CORN SYRUP USAGE 1990 – 2022

(million bushels)



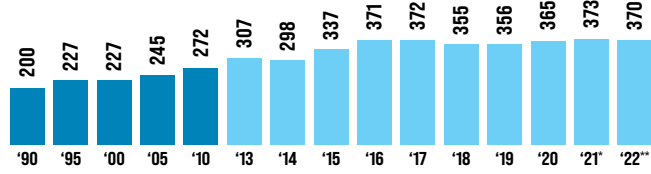
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

GLUCOSE & DEXTROSE USAGE 1990 – 2022

(million bushels)



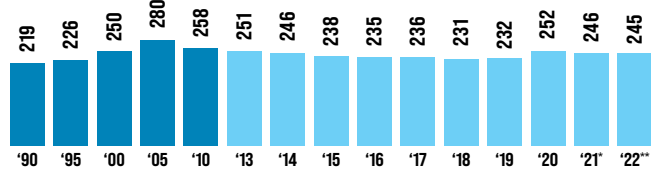
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

STARCH USAGE 1990 – 2022

(million bushels)



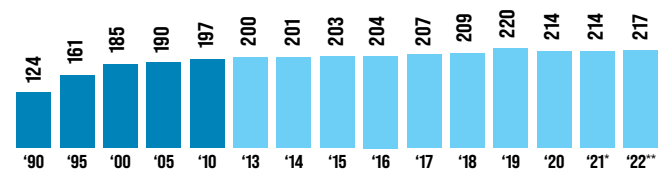
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

CEREAL AND FOOD 1990 – 2022

(million bushels)



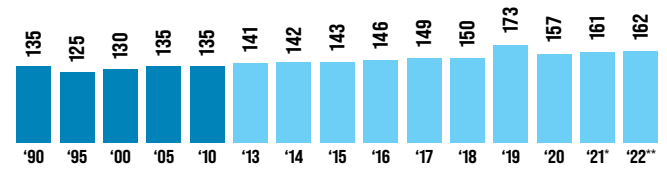
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

BEVERAGE & INDUSTRIAL ALCOHOL 1990 – 2022

(million bushels)



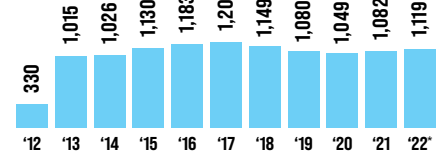
Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 – Aug. 2023

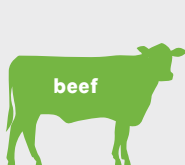
CORN DISPLACED BY DDG/CGF IN DOMESTIC LIVESTOCK RATIOS 2012 – 2022

(million bushels)



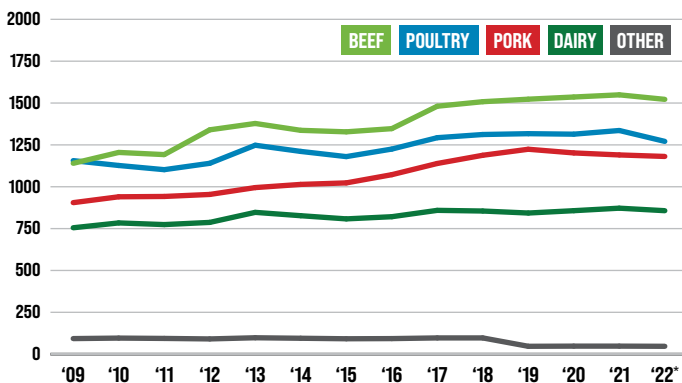
Source: ProExporter Network, Jan 17, 2023, Crop Year Ending, Aug. 31, 2023

*projection



CORN FED BY SPECIES 2009 – 2022

(million bushels)

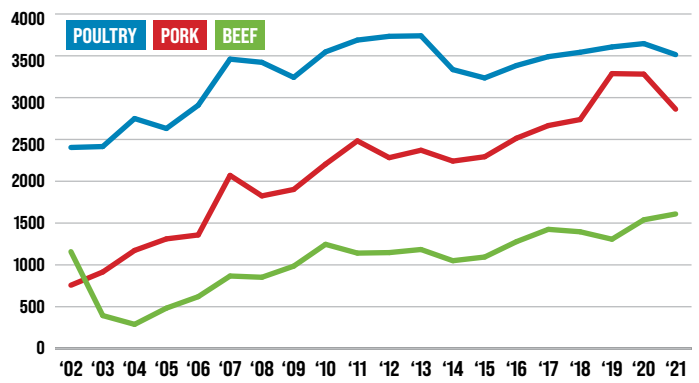


Source: ProExporter Network, Crop Year Ending Aug. 31, 2023

*projection

U.S. MEAT EXPORTS BY ANIMAL GROUP 2002 – 2021*

(thousand metric tons)

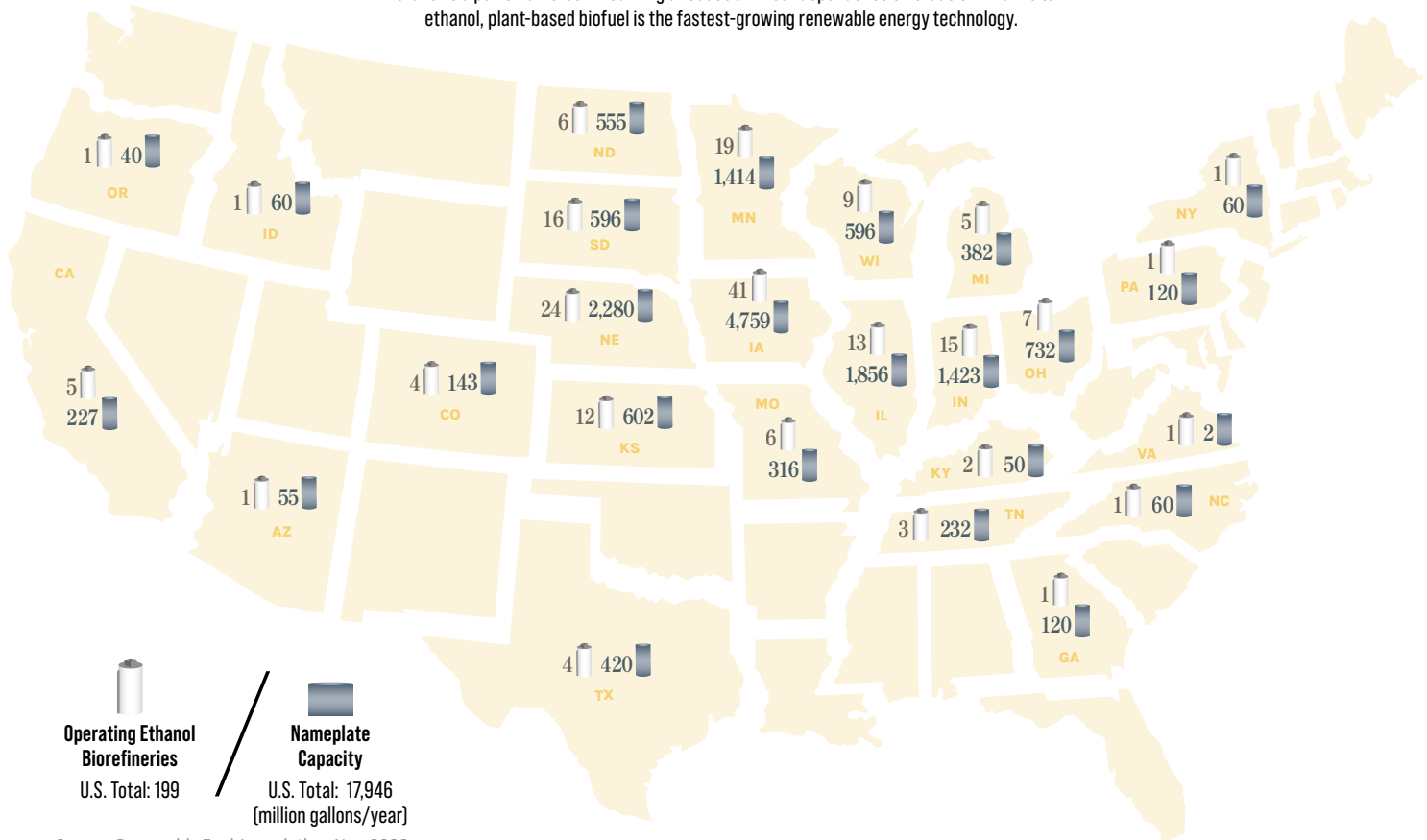




CORN CONSUMPTION ETHANOL

U.S. ETHANOL PRODUCTION FACILITIES 2022

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.



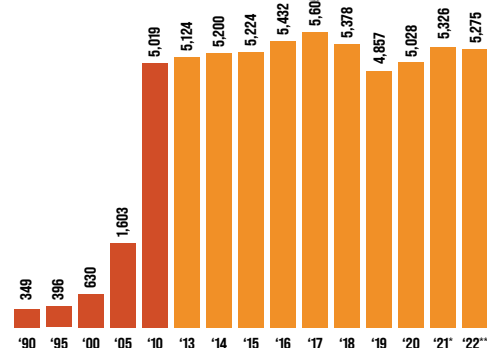
Source: Renewable Fuel Association, Nov. 2022

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 1990–2022

(million bushels)



Source: USDA, ERS Feed Grains Yearbook, Jan. 18, 2023

*estimated

**projected for crop year Sept. 2022 - Aug. 2023

PERCENTAGE OF BIOTECH ACREAGE 2020–2022

Year	Insect Resistant			Herbicide Tolerant			Stacked Traits			All Biotech Hybrids		
	'20	'21*	'22*	'20	'21*	'22*	'20	'21*	'22*	'20	'21*	'22*
IL	2	2	2	4	4	4	88	86	87	94	92	93
IN	3	2	1	9	7	7	74	78	79	86	87	87
IA	3	4	3	8	9	8	79	80	82	90	93	93
KS	4	1	4	11	8	12	81	84	78	96	93	94
MI	2	3	2	13	12	11	74	76	81	89	91	94
MN	4	2	3	9	8	4	79	84	86	92	94	93
MO	2	2	3	8	5	12	83	84	81	93	91	96
NE	3	2	3	9	4	7	82	91	85	94	97	95
ND	3	3	3	13	12	17	75	77	74	91	92	94
OH	3	5	1	13	14	10	71	70	80	87	89	91
SD	4	3	1	11	8	10	80	83	84	95	94	95
TX	8	3	5	8	9	8	76	80	79	92	92	92
WI	3	3	3	11	12	11	76	76	77	90	91	91
Other	4	3	4	14	15	14	73	73	74	91	92	91
Total	3	3	3	10	9	9	79	81	81	92	93	93

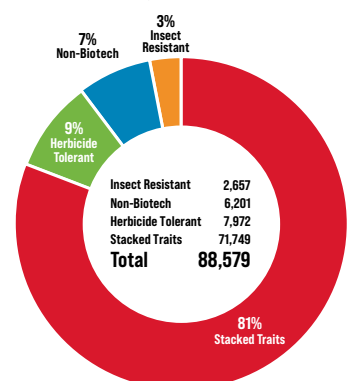
Source: USDA, NASS, Quick Stats, Jan. 12, 2023

*estimated

*projected for crop year Sept. 2022 - Aug. 2023

BIOTECH SHARE OF U.S. CORN ACRES PLANTED 2022*

(1,000 acres)



Source: USDA, NASS, Quick Stats, Jan. 12, 2023

*projected for crop year Sept. 2022 - Aug. 2023



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**



“Show me that it works.”

– Kenny B., grower and future TriVolt™ herbicide user



When we told growers new premium TriVolt™ herbicide for corn delivers consistent weed control, they wanted to see proof. So we set up cameras in multiple fields treated with TriVolt and filmed for 8 weeks.



See the results for yourself at TriVoltInAction.com.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.

Performance may vary, from location to location and from year to year, as local growing, soil, and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on their fields.

TriVolt™ is a restricted use pesticide. Not all products are registered for use in all states and may be subject to use restrictions. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or representative for the product registration status in your state. Bayer, Bayer Cross, and TriVolt™ are trademarks of Bayer Group. For additional product information, call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us. Bayer CropScience LP, 800 North Lindbergh Boulevard, St. Louis, MO 63167. ©2023 Bayer Group. All rights reserved.

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
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Arkansas Corn and Grain Sorghum Board

(501) 228-1628
Mark Lambert, Executive Director
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www.corn-sorghum.org

Colorado Corn Growers Association

(877) 264-7696
Kyle McCann
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www.ccgacorn.com

Colorado Corn Promotion Council

(970) 351-8201
Nicholas Colglazier, Executive Director
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www.coloradocorn.com

Georgia Agricultural Commodity Commission

(404) 656-3678
Andy Harrison,
Commodity Commissions Manager
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Georgia Corn Growers Association

(229) 392-6607
Dewey Lee, Executive Director
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Illinois Corn Growers Association

(309) 557-3257
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www.ilcorn.org

Illinois Corn Marketing Board

(309) 827-0912
Rodney Weinzierl, Executive Director
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Indiana Corn Growers Association

Indiana Corn Marketing Council
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(317) 347-3620
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www.incorn.org

Iowa Corn Growers Association

Iowa Corn Promotion Board
(515) 225-9242
Craig Floss, CEO
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Kansas Corn Growers Association

Kansas Corn Commission
(785) 448-6922
Josh Roe, CEO
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Kentucky Corn Growers Association

Kentucky Corn Promotion Council
(866) 543-9674
(800) 326-0906
Laura Knott, Executive Director
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www.kycorn.org

Louisiana Cotton and Grain Association

(318) 537-8403
Bobby Skeen,
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www.lacottonandgrain.com

Louisiana Soybean and Grain Research and Promotion Board

(225) 922-6209
Andy Brown, Executive Director
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Maryland Grain Producers Association

Maryland Grain Producers Utilization Board
(443) 262-8491
Lindsay Thompson, Executive Director
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www.marylandgrain.com

Michigan Corn Growers Association

Corn Marketing Program of Michigan
(517) 668-CORN (2676)
(888) 323-6601
Jim Zook, Executive Director
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www.micorn.org

Minnesota Corn Growers Association

Minnesota Corn Research and Promotion Council
(952) 233-0333
Adam Birr, Ph.D., Executive Director
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Mississippi Corn Growers Association

Mississippi Corn Promotion Board
(662) 325-2311
Dr. Erick Larson
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Missouri Corn Growers Association

Missouri Corn Merchandising Council
(573) 893-4181
Bradley Schad, CEO
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Nebraska Corn Board

(402) 471-CORN (2676)
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Nebraska Corn Growers Association

(402) 438-6459
Kelly Brunkhorst, Executive Director
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New York Corn and Soybean Growers Association

(585) 689-2321
Colleen Klein, Executive Director
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Corn Growers Association of North Carolina Inc.

(919) 803-4778
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North Dakota Corn Growers Association

North Dakota Corn Utilization Council
(701) 566-9322
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Ohio Corn and Wheat Growers Association

Ohio Corn Marketing Program
(740) 201-8088
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Pennsylvania Corn Growers Association

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South Carolina Corn and Soybean Association

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South Dakota Corn Growers Association

South Dakota Corn Utilization Council
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Tennessee Corn Growers Association

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Texas Corn Producers Association

Texas Corn Producers Board
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Virginia Corn Board

(804) 371-6157
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Virginia Grain Producers Association

(804) 726-6022
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Wisconsin Corn Growers Association

Wisconsin Corn Promotion Board
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Nicole Wagner, Executive Director
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FOR MORE INFORMATION, VISIT WWW.NCGA.COM

