2017-2025 Crop Year Survey Data Extrapolation

**The statistical collection portrayed herein has been rounded for displaying data extrapolation.*

Corn & Soy Acres	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average
Corn acres (CDL)	13,212,913	13,012,207	13,648,497	13,793,805	12,826,886	12,686,886	12,805,034	13,082,234	13,480,739	13,172,133
Soy acres (CDL)	9,782,215	9,956,734	9,275,193	9,553,928	10,150,325	10,046,351	9,850,104	10,128,623	9,463,201	9,800,742
Corn & soy acres total (CDL)	22,995,128	22,968,941	22,923,690	23,347,733	22,977,211	22,733,237	22,655,138	23,210,857	22,943,940	22,972,875

CDL = USDA Cropland Data Layer

Commercial Only Nitrogen Rates (lb/ac)	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average
Average N rate on corn in rotation	170.0	172.3	177.5	183.4	170.9	173.4	166.6	179.2	179.7	174.8
Average N rate on continuous corn	200.4	201.9	200.4	208.9	199.9	192.6	185.7	205.0	211.7	200.7
Iowa Nitrogen Initiative Economic Optimum N Rate on corn in rotation							196.0	227.0	169.0	192.0
Iowa Nitrogen Initiative Economic Optimum N Rate on continuous corn							202.0	224.0	180.0	202.0

The economic optimum nitrogen rates are calculated using a 0.1 price ratio of the price of nitrogen compared to a bushel of corn or $0.50/lb N:$5/bu corn.

Crop Rotation	2022	2023	2024	2025	Average
Continuous Corn	10.6%	12.7%	11.6%	10.9%	11.4%
Corn-Soy	85.3%	84.6%	81.7%	85.2%	84.2%
Extended Rotation	2.0%	1.4%	3.3%	1.5%	2.0%
Corn-Small Grain-Soy	0.2%	0.1%	0.3%	0.0%	0.1%
Other	1.9%	1.2%	3.1%	2.5%	2.2%

	Percentage										Acres										Extrapolation
Cover Crop Practices:	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	Extrapolated Using
Cover crop planted	6.9%	8.8%	9.5%	13.3%	12.1%	16.6%	17.0%	16.7%	14.8%	12.8%	1,586,664	2,021,267	2,177,751	3,105,248	2,780,243	3,773,717	3,851,373	3,876,213	3,395,703	2,952,020	Corn & soy acres
Rye cover crop	69.4%	82.8%	81.3%	90.9%	80.8%	81.8%	86.6%	89.6%	77.5%	82.3%	1,101,145	1,673,609	1,770,511	2,822,671	2,246,436	3,086,901	3,335,289	3,473,087	2,631,670	2,460,147	Cover crop acres
Oat cover crop	9.1%	9.8%	2.8%	1.3%	5.5%	4.4%	6.1%	4.3%	5.3%	5.4%	100,204	164,014	49,574	36,695	123,554	135,824	203,453	149,343	179,972	126,959	Cover crop acres
Species mix	NA	NA	11.20%	6.7%	12.30%	8.5%	5.5%	5.5%	8.0%	8.2%	NA	NA	243,908	208,052	341,970	320,766	211,826	213,192	271,656	258,767	Cover crop acres
Other cover crop	21.5%	7.4%	4.80%	1.10%	1.5%	5.3%	1.7%	0.6%	9.1%	5.9%	341,133	149,574	104,532	34,158	41,704	222,649	65,473	23,257	309,009	143,499	Cover crop acres

Commercial Nitrogen Application Practices:	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	Extrapolated Using
Fall anhydrous ammonia applied	38.9%	24.1%	23.5%	28.9%	43.1%	50.3%	49.5%	42.0%	51.3%	39.1%	5,139,823	3,135,942	3,207,397	3,986,410	5,528,388	6,381,504	6,338,492	5,494,538	6,915,619	5,125,346	Corn acres
EPA-labeled inhibitor with fall anhydrous ammonia	NA	NA	NA	NA	NA	NA	63.1%	62.0%	62.1%	62.4%							3,999,588	3,406,614	4,294,599	3,900,267	Fall anhydrous ammonia acres
Nitrapyrin inhibitor with fall anhydrous ammonia	72.6%	73.9%	84.8%	83.8%	86.0%	64.7%	NA	NA	NA	77.7%	3,731,512	2,317,461	2,719,872	3,340,611	4,754,414	4,128,833				3,498,784	Fall anhydrous ammonia acres
Fall only	NA	NA	14.0%	17.4%	22.4%	27.8%	34.7%	23.9%	22.7%	23.3%	NA	NA	1,910,790	2,400,122	2,873,222	3,526,954	4,443,347	3,126,654	3,060,128	3,048,745	Corn acres
Spring pre-plant only	42.1%	56.3%	50.9%	46.7%	40.3%	33.8%	36.5%	41.9%	34.3%	42.5%	5,562,636	7,325,873	6,947,085	6,441,707	5,169,235	4,288,167	4,673,837	5,481,456	4,623,893	5,612,654	Corn acres
Spring pre-plant & in-season	9.9%	15.4%	16.9%	13.8%	13.2%	14.5%	10.5%	12.3%	13.2%	13.3%	1,308,078	2,003,880	2,306,596	1,903,545	1,693,149	1,839,598	1,344,529	1,609,115	1,779,458	1,754,216	Corn acres
In-season only	2.1%	1.1%	1.1%	3.8%	1.7%	1.0%	2.5%	1.8%	0.7%	1.8%	277,471	143,134	150,133	524,165	219,340	126,869	320,126	235,480	94,365	232,343	Corn acres
Fall & spring pre-plant	NA	NA	11.6%	9.7%	14.3%	14.4%	10.2%	10.7%	20.7%	13.1%	NA	NA	1,583,226	1,337,999	1,834,245	1,826,912	1,306,113	1,399,799	2,790,513	1,725,544	Corn acres
Fall & in-season	NA	NA	3.2%	5.4%	4.7%	6.1%	3.7%	8.0%	6.1%	5.3%	NA	NA	436,752	744,865	602,864	773,900	473,786	1,046,579	822,325	700,153	Corn acres
Fall & spring & in-season	NA	NA	2.3%	3.2%	3.4%	2.3%	2.0%	1.4%	2.3%	2.4%	NA	NA	313,915	441,402	436,114	291,798	256,101	183,151	310,057	318,934	Corn acres
Variable rate applied	NA	NA	8.7%	10.1%	16.1%	9.8%	15.2%	12.2%	10.8%	11.8%	NA	NA	1,187,419	1,393,174	2,065,129	1,243,315	1,946,365	1,596,033	1,455,920	1,555,336	Corn acres

Manure Practices:	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	Extrapolated Using
No manure used	81.5%	81.4%	80.8%	82.0%	79.7%	78.8%	76.5%	77.5%	74.7%	79.2%	10,768,524	10,591,936	11,027,986	11,310,920	10,223,028	9,997,266	9,795,851	10,138,731	10,070,112	10,436,039	Corn acres
Beef manure used	6.8%	10.3%	8.8%	6.3%	9.5%	9.0%	11.8%	10.2%	12.2%	9.4%	898,478	1,340,257	1,201,068	869,010	1,218,554	1,141,820	1,510,994	1,334,388	1,644,650	1,239,913	Corn acres
Beef & liquid swine manure used	0.0%	0.0%	0.3%	0.1%	0.1%	0.2%	0.4%	0.1%	0.1%	0.1%	0	0	40,945	13,794	12,827	25,374	51,220	13,082	13,481	18,969	Corn acres
Liquid swine manure used	7.6%	5.4%	7.4%	8.1%	8.1%	8.9%	8.3%	7.9%	9.1%	7.9%	1,004,181	702,659	1,009,989	1,117,298	1,038,978	1,129,133	1,062,818	1,033,496	1,226,747	1,036,144	Corn acres
Poultry manure used	1.6%	1.7%	1.9%	1.2%	1.6%	1.4%	1.7%	0.9%	2.6%	1.6%	211,407	221,208	259,321	165,526	205,230	177,616	217,686	117,740	350,499	214,026	Corn acres
Dairy manure used	2.5%	1.1%	0.8%	2.1%	1.1%	1.7%	1.5%	3.3%	1.2%	1.7%	330,323	143,134	109,188	289,670	141,096	215,677	192,076	431,714	161,769	223,850	Corn acres
Liquid swine manure fall applied	94.7%	84.2%	78.5%	87.3%	82.4%	91.8%	83.1%	91.2%	76.7%	85.5%	950,960	591,639	792,841	975,401	856,118	1,036,544	883,202	942,549	940,915	885,574	Swine manure acres
Liquid swine manure spring applied	1.8%	2.5%	11.7%	3.4%	7.0%	4.7%	5.6%	0.0%	7.7%	4.9%	18,075	17,566	118,169	37,988	72,728	53,069	59,518	0	94,460	52,397	Swine manure acres
Liquid swine manure fall & spring applied	3.5%	13.3%	9.9%	9.4%	10.6%	3.6%	11.3%	8.8%	15.6%	9.5%	35,146	93,454	99,989	105,026	110,132	40,649	120,098	90,948	191,373	98,535	Swine manure acres

Phosphorus Application Practices:	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	Extrapolated Using
Commercial P incorporated with planter	11.0%	3.8%	1.2%	2.7%	0.6%	0.7%	1.6%	0.9%	0.8%	2.6%	2,529,464	872,820	275,084	630,389	137,863	159,133	362,482	208,898	183,552	595,520	Corn & soy acres
Commercial P applied in knifed bands	2.9%	2.7%	2.7%	3.0%	2.7%	1.1%	4.0%	6.6%	3.5%	3.2%	666,859	620,161	618,940	700,432	620,385	250,066	906,206	1,531,917	803,038	746,445	Corn & soy acres
Commercial P broadcast & incorporated in 1 week	47.0%	70.3%	69.1%	40.4%	43.2%	37.9%	31.4%	31.6%	27.8%	44.3%	10,807,710	16,147,166	15,840,270	9,432,484	9,926,155	8,615,897	7,113,713	7,334,631	6,378,415	10,177,382	Corn & soy acres
Liquid P (commercial/manure) injected	1.8%	3.8%	8.9%	7.8%	5.0%	6.8%	5.6%	1.8%	5.6%	5.2%	413,912	872,820	2,040,208	1,821,123	1,148,861	1,545,860	1,268,688	417,795	1,284,861	1,201,570	Corn & soy acres
Other P application type (unincorporated)	37.4%	19.5%	18.1%	46.0%	48.4%	53.5%	57.4%	59.2%	62.3%	44.6%	8,600,178	4,478,943	4,149,188	10,739,957	11,120,970	12,162,282	13,004,049	13,740,827	14,294,075	10,254,497	Corn & soy acres
Variable rate applied	NA	NA	49.6%	45.7%	57.0%	52.8%	61.5%	58.3%	58.9%	54.8%	NA	NA	11,370,150	10,669,914	13,097,010	12,003,149	13,932,910	13,531,930	13,513,981	12,588,435	Corn & soy acres
Soil testing for P	81.2%	72.1%	85.5%	80.6%	81.2%	79.6%	82.2%	77.1%	78.1%	79.7%	18,672,044	16,560,606	19,599,755	18,818,273	18,657,495	18,095,657	18,622,523	17,895,571	17,919,217	18,315,682	Corn & soy acres
P application when at or below optimum levels	74.3%	94.4%	94.3%	99.1%	98.2%	95.4%	91.0%	94.9%	100.0%	93.5%	13,873,329	15,633,212	18,482,569	18,648,908	18,321,660	17,263,256	16,946,496	16,982,897	17,919,217	17,119,061	Soil test phosphorus acres

Soil Test P Levls	2022	2023	2024	2025	Average
Average Bray-P1 (ppm)	31.2	34.4	33.7	36.4	33.9
Average Olsen (ppm)		20.9	28.8		24.9
Average Melich-3 (ppm)	36.1	34.1	41.9	44.4	39.1

Tillage Practices:	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	2017	2018	2019	2020	2021	2022	2023	2024	2025	Average	Extrapolated Using
Conservation tillage before corn	56.3%	52.3%	46.5%	23.0%	25.4%	29.7%	23.3%	22.9%	30.9%	34.5%	7,438,870	6,805,748	6,341,092	3,171,203	3,260,594	3,768,005	2,983,573	2,995,832	4,168,244	4,547,742	Corn acres
No-till before corn	26.4%	22.2%	29.4%	29.5%	31.6%	29.6%	32.7%	29.1%	29.7%	28.9%	3,488,209	2,888,710	4,012,658	4,069,172	4,053,296	3,755,318	4,187,246	3,806,930	4,001,083	3,807,733	Corn acres
Conventional tillage before corn	NA	25.4%	24.1%	47.5%	43.0%	40.6%	44.0%	48.0%	39.4%	39.0%	NA	3,305,101	3,289,288	6,552,057	5,515,561	5,150,876	5,634,215	6,279,472	5,311,411	5,129,420	Corn acres
Conservation tillage before soy	42.6%	34.6%	33.8%	18.5%	19.6%	27.7%	22.1%	16.0%	19.2%	26.0%	4,167,224	3,445,030	3,135,015	1,767,477	1,989,464	2,782,839	2,176,873	1,620,580	1,815,988	2,544,276	Soy acres
No-till before soy	43.2%	41.0%	44.6%	47.3%	53.3%	46.9%	49.7%	55.3%	49.4%	47.8%	4,225,917	4,082,261	4,136,736	4,519,008	5,410,123	4,711,739	4,895,502	5,601,129	4,671,982	4,693,701	Soy acres
Conventional tillage before soy	NA	24.4%	21.6%	34.2%	27.1%	25.5%	28.3%	28.7%	31.4%	27.7%	NA	2,429,443	2,003,442	3,267,443	2,750,738	2,561,820	2,787,579	2,906,915	2,975,230	2,710,258	Soy acres
Combined corn & soy conservation tillage acreage	50.5%	44.6%	41.3%	21.2%	22.8%	28.8%	22.8%	19.9%	26.1%	30.9%	11,606,094	10,250,778	9,476,107	4,938,679	5,250,058	6,550,844	5,160,446	4,616,411	5,984,233	7,092,017	Corn & soy conservation tillage acres
Combined corn & soy no-till acreage	33.5%	30.3%	35.6%	36.8%	41.2%	37.2%	40.1%	40.5%	37.8%	37.0%	7,714,126	6,970,971	8,149,394	8,588,180	9,463,419	8,467,057	9,082,748	9,408,059	8,673,066	8,501,434	Corn & soy no-till acres
Combined corn & soy conventional tillage acreage	NA	25.0%	23.1%	42.1%	35.9%	33.9%	37.2%	39.6%	36.1%	34.1%	NA	5,734,544	5,292,729	9,819,501	8,266,299	7,712,695	8,421,794	9,186,387	8,286,642	7,839,678	Corn & soy conventional tillage acres