



# **2004 CORN PRODUCERS REPORT**

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## **ON GMO CORN ACRES PLANTED**

**Prepared for**

*American Corn Growers Foundation*

**July, 2004**



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## INTRODUCTION AND METHODOLOGY

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In June of 2004, 500 interviews were conducted with a randomly selected sample of corn producers in sixteen states (Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Texas and Wisconsin) representing over 90% of the total planted corn acreage in the U.S. in 2004. These corn producers were surveyed to determine current levels of corn and GMO planting.

The farmers surveyed to obtain the sample each had over 100 acres of corn planted in one of the sixteen states. To ascertain the proper sample and compare the total corn acres, the survey began by asking questions about planting corn in both 2003 and 2004.

To prepare the sample, RMA obtained a random digit dial (RDD) list of corn producers in the 16 specified states. Respondents were screened to insure that individuals had a minimum of 100 acres of corn planted.

The interviews were completed during the weekday hours of 5:30 pm and 9:30 pm, Saturday during the hours of 9:00 am to 1:00 pm and Sunday during the hours of 1:00 pm to 5:00 pm respondent time. They were conducted over a seven day period to insure maximum possible participation by each number attempted.

Robinson and Muenster Associates, Inc. (RMA) conducted these interviews using a wide area network WinCati computer assisted telephone interviewing system in two RMA interviewing facilities, one located in the Central Time Zone and one in the Mountain Time Zone.

When the interviewing was completed, results were cross-tabulated and analyzed. The survey has a margin of error of 4.4% at the 95% confidence level. The margin of error will increase for smaller sub-groups if analyzed alone (each state for example.)

**SUMMARY**

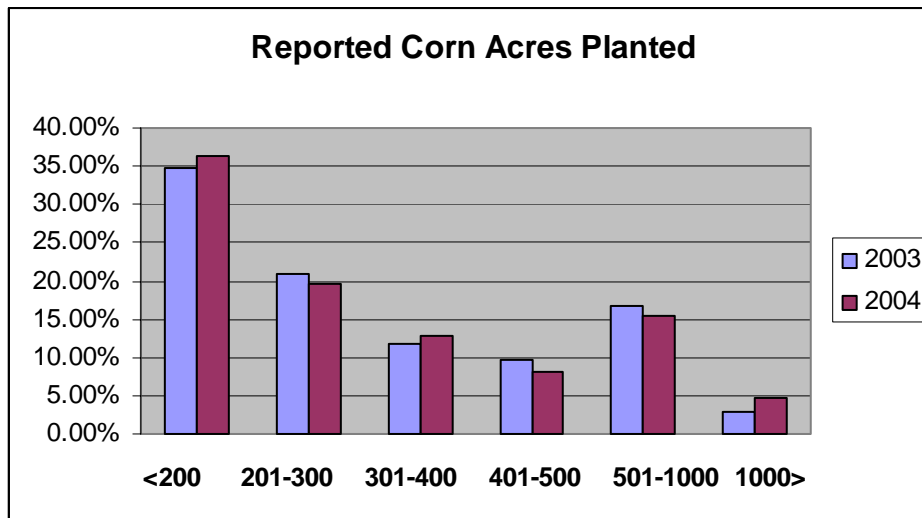
**Respondent corn planting**

The total acres of corn reported planted by the study respondents both in 2003 and this year was fairly consistent though slightly up. There was a slight (2.2%) increase in the percent of total corn acres that were planted in GMO varieties.

*Table A. Corn Acres Planted*

<b>Corn Acres</b>	<b>2003</b>	<b>2004</b>
200 or less	34.8%	36.4%
201-300	20.8%	19.6%
301-400	11.8%	12.8%
401-500	9.6%	8.2%
501-1000	16.8%	15.4%
Over 1000	3.0%	4.8%
Refused	3.2%	2.8%
<b>MEAN</b>	<b>390.0</b>	<b>398.4</b>

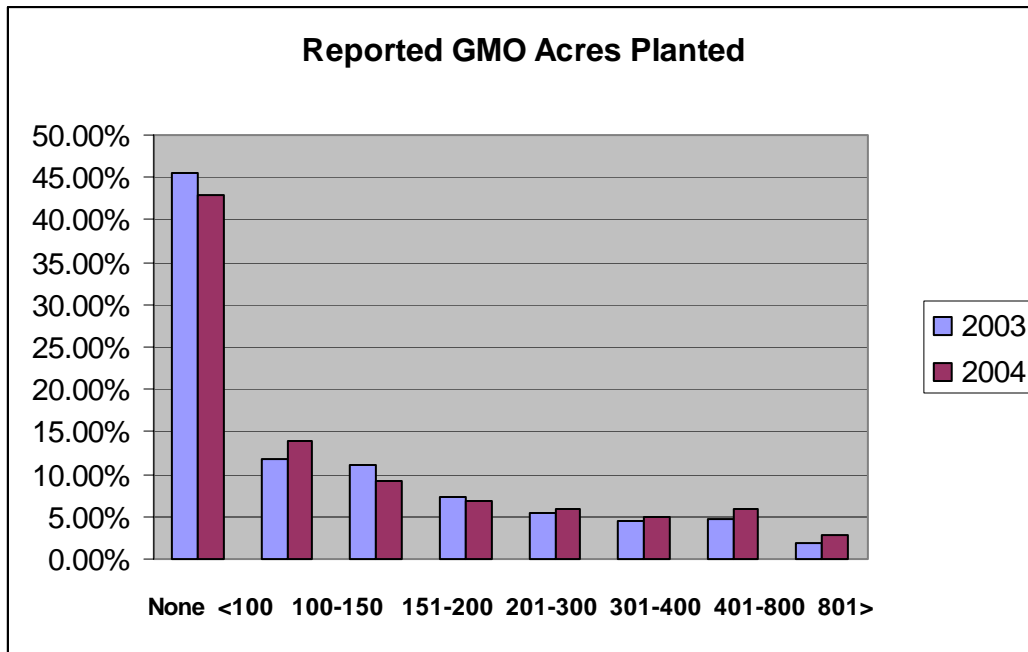
*Figure 1. Reported Corn Acres Planted*



**Table B. GMO Acres Reported Planted**

GMO Acres	2003	2004
None	45.5%	43.0%
Less than 100	11.8%	13.8%
100-150	11.2%	9.2%
151-200	7.2%	6.8%
201-300	5.4%	6.0%
301-400	4.4%	5.0%
401-800	4.8%	6.0%
801 or more	1.8%	2.8%
Refused	7.8%	7.4%
<b>MEAN</b>	<b>124.0</b>	<b>141.7</b>

**Figure 2. Reported GMO Acres Planted**



**State Participation**

As in the surveys done in 2001 and 2003, Iowa had the largest share of corn producers in the survey with 20%. Illinois was very close, also at 20% and Nebraska and Minnesota were both more than 10% of the respondents. Pennsylvania and North Dakota were added to the base in this year’s survey, resulting in sixteen states as opposed to fourteen.

20.4%	IA
19.8%	IL
12.0%	NE
10.0%	MN
7.8%	IN
5.2%	OH
4.4%	SD
4.0%	WI
3.4%	KS
3.2%	MO
2.6%	MI
1.6%	KY
1.6%	TX
1.4%	CO
1.4%	ND
1.2%	PA

### **Comparison of Corn and GMO Acres by State**

Overall the corn acres planted by this sample universe increased 6.7% in 2004 over 2003. GMO acres planted increased by 13.8% making GMO varieties 34.4% of all corn acres planted. This is a 2.2% increase from 2003 when GMO acres represented 32.2% of corn acres planted by this sample. The following tables show this by state, ranked by GMO increase and by total corn increase.

*Table C. Comparison of Corn and GMO Acres by State*

State	2003			2004			Changes 2003 to 2004	
	Corn Acres	GMO Acres	%GMO	Corn Acres	GMO Acres	%GMO	Corn +/-	GMO +/-
CO	1,975	645	32.7%	2,114	635	30.0%	7.1%	-1.6%
IA	41,115	10,751	26.1%	46,253	14,593	31.5%	12.5%	35.7%
IL	13,974	712	5.1%	13,755	879	6.4%	-1.6%	23.4%
IN	31,834	12,577	39.5%	31,487	13,342	42.4%	-1.1%	6.1%
KS	5,715	1,218	21.3%	5,093	1,251	24.6%	-10.9%	2.7%
KY	5,650	1,086	19.2%	5,750	1,109	19.3%	1.8%	2.1%
MI	3,345	960	28.7%	3,055	845	27.7%	-8.7%	-12.0%
MN	21,260	6,630	31.2%	17,755	8,180	46.1%	-16.5%	23.4%
MO	8,986	2,501	27.8%	9,526	2,587	27.2%	6.0%	3.5%
ND	4,013	1,633	40.7%	3,655	2,538	69.4%	-8.9%	55.4%
NE	30,354	15,192	50.0%	41,250	14,970	36.3%	35.9%	-1.5%
OH	9,168	2,168	23.7%	9,942	2,412	24.3%	8.5%	11.2%
PA	1,840	620	33.7%	1,865	670	35.9%	1.3%	8.1%
SD	8,276	3,564	43.1%	8,774	4,367	49.8%	6.0%	22.5%
TX	3,006	1,909	63.5%	3,800	2,057	54.1%	26.4%	7.8%
WI	4,822	794	16.5%	4,338	1,200	27.7%	-10.0%	51.1%
	<b>195,332</b>	<b>62,960</b>	<b>32.2%</b>	<b>208,414</b>	<b>71,633</b>	<b>34.4%</b>	<b>6.7%</b>	<b>13.8%</b>

**Table D. Comparison of Corn and GMO Ranked by GMO Increase**

State	2003			2004			Changes 2003 to 2004	
	Corn Acres	GMO Acres	%GMO	Corn Acres	GMO Acres	%GMO	Corn +/-	GMO +/-
ND	4,013	1,633	40.7%	3,655	2,538	69.4%	-8.9%	55.4%
WI	4,822	794	16.5%	4,338	1,200	27.7%	-10.0%	51.1%
IA	41,115	10,751	26.1%	46,253	14,593	31.5%	12.5%	35.7%
IL	13,974	712	5.1%	13,755	879	6.4%	-1.6%	23.4%
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MI	3,345	960	28.7%	3,055	845	27.7%	-8.7%	-12.0%
	<b>195,332</b>	<b>62,960</b>	<b>32.2%</b>	<b>208,414</b>	<b>71,633</b>	<b>34.4%</b>	<b>6.7%</b>	<b>13.8%</b>

**Table E. Comparison of Corn and GMO Ranked by Corn Acre Increase**

State	2003			2004			Changes 2003 to 2004	
	Corn Acres	GMO Acres	%GMO	Corn Acres	GMO Acres	%GMO	Corn +/-	GMO +/-
NE	30,354	15,192	50.0%	41,250	14,970	36.3%	35.9%	-1.5%
TX	3,006	1,909	63.5%	3,800	2,057	54.1%	26.4%	7.8%
IA	41,115	10,751	26.1%	46,253	14,593	31.5%	12.5%	35.7%
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	<b>195,332</b>	<b>62,960</b>	<b>32.2%</b>	<b>208,414</b>	<b>71,633</b>	<b>34.4%</b>	<b>6.7%</b>	<b>13.8%</b>

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**SURVEY MARGINALS**

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**Hello, this is \_\_\_\_\_, and I'm calling from RMA Research, a national public opinion research firm. We are conducting a brief national survey for the American Corn Growers Foundation.. Let me stress that we are not selling anything and are only interested in your opinions on these issues**

**Q State**

500	TOTAL ANSWERING
1.4%	CO
19.8%	IL
7.8%	IN
20.4%	IA
3.4%	KS
1.6%	KY
2.6%	MI
10.0%	MN
3.2%	MO
12.0%	NE
1.4%	ND
5.2%	OH
1.2%	PA
4.4%	SD
1.6%	TX
4.0%	WI

**Gender [DO NOT ASK]**

500	TOTAL ANSWERING
69.8%	Male
30.2%	Female



**Q1A To help us look at corn growers views of these issues we have to ask some questions to determine planting trends of corn varieties this year compared to last year. About how many total acres did you plant in corn last year (2003)?**

**[NOTE: IF LESS THAN 100 ACRES THANK AND TERMINATE]**

500	TOTAL ANSWERING
	0
	1-99
19.8%	100-150
15.0%	151-200
20.8%	201-300
11.8%	301-400
9.6%	401-500
5.2%	501-600
3.0%	601-700
4.0%	701-800
1.0%	801-900
3.6%	901-1000
3.0%	1001 or more
3.2%	Refused
<b>390.0</b>	<b>MEAN</b>

**Q1B How many of those acres were planted in GMO [genetically modified organisms], also known as biotech varieties? (GMO corn in 2003)**

500	TOTAL ANSWERING
45.6%	0
11.8%	1-99
11.2%	100-150
7.2%	151-200
5.4%	201-300
4.4%	301-400
2.0%	401-500
1.4%	501-600
0.4%	601-700
1.0%	701-800
0.4%	801-900
0.8%	901-1000
0.6%	1001 or more
7.8%	Refused
<b>124.0</b>	<b>MEAN</b>

**Q1C How many total acres did you or will you plant in corn this year? (Total corn acres in 2004)**

500	TOTAL ANSWERING
2.0%	0
2.2%	1-99
19.2%	100-150
13.0%	151-200
19.6%	201-300
12.8%	301-400
8.2%	401-500
3.8%	501-600
3.4%	601-700
4.4%	701-800
0.8%	801-900
3.0%	901-1000
4.8%	1001 or more
2.8%	Refused
<b>398.4</b>	<b>MEAN</b>

**Q1D How many of those acres were or will be planted in GMO/biotech varieties?**

500	TOTAL ANSWERING
43.0%	0
13.8%	1-99
9.2%	100-150
6.8%	151-200
6.0%	201-300
5.0%	301-400
3.2%	401-500
1.6%	501-600
0.6%	601-700
0.6%	701-800
0.6%	801-900
1.0%	901-1000
1.2%	1001 or more
7.4%	Refused
<b>141.7</b>	<b>MEAN</b>