



PRELIMINARY

Monsanto Biotechnology Trait Acreage: Fiscal Years 1996-2008F¹
 Updated: June 25, 2008

In millions of acres

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008F
CORN													
Single-Trait Acres													
U.S. Roundup Ready corn trait ²	0.0	0.0	0.9	2.1	2.6	3.4	5.6	6.9	8.3	10.9	11.1	14.0	14
U.S. YieldGard Corn Borer traits	0.0	2.3	11.4	15.4	14.6	14.3	18.2	20.0	24.2	18.8	12.3	8.0	5
U.S. YieldGard Rootworm trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	0.9	0.7	0.2	0
U.S. Roundup Ready stacked w/ Non-Monsanto Traits ^{3,2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	9.1	15
Total U.S. Single-Trait Acres	0.0	2.3	12.3	17.5	17.2	17.7	23.8	27.3	33.6	31.1	25.4	31.3	33-34
Roundup Ready corn trait – other markets	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.2	0.4	1.3	2.1	2
Argentina YieldGard Corn Borer traits					0.3	0.9	1.4	2.1	2.4	3.6	3.3	4.5	6
YieldGard Corn Borer traits – other markets	0.0	0.0	0.0	0.6	0.8	1.1	1.6	1.6	1.9	2.6	3.2	3.6	4
Total WW Single-Trait Acres	0.0	2.3	12.3	18.2	18.4	19.9	27.0	31.3	38.1	37.7	33.2	41.5	45-46
Double-Trait Acres													
U.S. YieldGard Corn Borer/Roundup Ready ²	0.0	0.0	0.0	0.0	0.1	1.2	2.2	5.1	8.0	11.1	12.6	15.5	10
U.S. YieldGard Rootworm/Roundup Ready ²	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.9	1.7	<1
U.S. YieldGard Plus (corn borer/rootworm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	1.3	<1
Total U.S. Double-Trait Acres	0.0	0.0	0.0	0.0	0.1	1.2	2.2	5.1	8.7	13.0	16.1	18.5	10-11
Argentina YieldGard Corn Borer/Roundup Ready													<1
YieldGard Corn Borer/Roundup Ready – other markets	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.7	1
Total WW Double-Trait Acres	0.0	0.0	0.0	0.0	0.1	1.2	2.3	5.2	8.9	13.2	16.4	19.2	11-12
Triple-Trait Acres													
U.S. YieldGard Plus/Roundup Ready ^{2,7}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.8	17.6	28
Total U.S. Triple-Trait Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.8	17.6	28
YieldGard Plus/Roundup Ready ^{2,7} - other markets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	<1
Total WW Triple-Trait Acres	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.8	17.7	28-29
Total Monsanto Trait Acres: Corn													
Total Absolute U.S. Corn Trait Acres⁴	0.0	2.3	12.3	17.5	17.3	18.9	26.0	32.4	42.3	45.4	47.3	67.4	71-73
Total Absolute WW Corn Trait Acres⁴	0.0	2.3	12.3	18.2	18.5	21.1	29.3	36.5	47.0	52.2	55.4	78.4	84-87
Trait-Specific Summaries⁵													
Total U.S. YieldGard Corn Borer traits	0.0	2.3	11.4	15.4	14.7	15.5	20.4	25.1	32.2	32.1	32.3	42.4	43-44
Total U.S. YieldGard Rootworm traits	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	4.1	10.0	20.8	28-29
Total U.S. Roundup Ready traits	0.0	0.0	0.9	2.1	2.7	4.6	7.8	12.0	17.0	24.8	32.7	57.9	67-68
Total U.S. Corn Traits	0.0	2.3	12.3	17.5	17.4	20.1	28.2	37.5	51.0	61.0	75.0	121.1	138-141



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COTTON													
Single-Trait Acres													
U.S. <i>Roundup Ready</i> cotton trait	0.0	0.6	2.1	3.8	4.6	5.1	5.2	4.5	3.3	3.1	2.4	0.9	<1
U.S. <i>Roundup Ready Flex</i> cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	<1
U.S. <i>Bollgard</i> cotton trait	1.8	2.0	2.0	2.0	1.1	0.5	0.3	0.3	0.3	0.1	0.0	0.0	<1
U.S. <i>Bollgard II</i> cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	<1
U.S. <i>Bollgard II</i> stacked w/ Non-Monsanto Traits ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	<1
U.S. <i>Roundup Ready Flex</i> stacked w/ Non-Monsanto Traits ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<1
U.S. <i>Roundup Ready</i> stacked w/ Non-Monsanto Traits ³	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<1
Total U.S. Single-Trait Acres	1.8	2.6	4.0	5.8	5.6	5.6	5.5	4.8	3.6	3.2	2.9	2.1	0-1
<i>Roundup Ready</i> cotton trait – other markets	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.6	0.7	<1
Indian <i>Bollgard</i> cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.3	3.1	8.4	13.2	13
Indian <i>Bollgard II</i> cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	3
<i>Bollgard</i> and <i>Bollgard II</i> cotton traits – other markets	0.0	0.1	0.3	0.6	0.8	3.0	2.4	2.3	2.3	2.3	2.3	3.0	2
Total WW Single-Trait Acres	1.8	2.7	4.3	6.4	6.4	8.6	8.1	7.5	7.4	8.8	14.4	20.3	19-20
Double-Trait Acres													
U.S. <i>Bollgard I/Roundup Ready</i>	0.0	0.1	0.7	2.4	4.1	5.6	4.8	5.3	7.2	7.0	6.1	3.3	1.5
U.S. <i>Bollgard III/Roundup Ready</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	0.8	0.3	<1
U.S. <i>Bollgard III/Roundup Ready Flex</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.9	3.5
Total U.S. Double-Trait Acres	0.0	0.1	0.7	2.4	4.1	5.6	4.8	5.4	7.4	7.7	8.6	6.5	5-6
<i>Bollgard I/Roundup Ready</i> - other markets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	<1
<i>Bollgard III/Roundup Ready</i> or <i>Roundup Ready Flex</i> - other markets	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.4	0.2	<1
Total WW Double-Trait Acres	0.0	0.1	0.7	2.4	4.1	5.6	4.9	5.5	7.5	8.1	9.1	6.8	5-6
Total Monsanto Trait Acres: Cotton													
Total Absolute U.S. Cotton Trait Acres⁴	1.8	2.7	4.8	8.2	9.7	11.2	10.3	10.2	11.1	10.9	11.5	8.6	5-7
Total Absolute WW Cotton Trait Acres⁴	1.8	2.8	5.1	8.8	10.5	14.2	13.0	13.0	15.0	16.9	23.5	27.1	24-26
Trait-Specific Summaries⁵													
Total U.S. <i>Roundup Ready</i> trait	0.0	0.7	2.8	6.2	8.6	10.7	10.0	9.9	10.7	10.8	9.3	4.5	1-2
Total U.S. <i>Roundup Ready Flex</i> trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.0	3-4
Total U.S. <i>Bollgard</i> trait	1.8	2.1	2.7	4.4	5.1	6.1	5.1	5.6	7.5	7.1	6.1	3.3	1-2
Total U.S. <i>Bollgard II</i> trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	2.6	3.3	3-4
Total U.S. Cotton Traits	1.8	2.8	5.5	10.6	13.7	16.8	15.1	15.6	18.5	18.6	20.1	15.1	8-12



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	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008F
SOYBEANS													
Single-Trait Acres													
U.S. <i>Roundup Ready</i> soybean trait	1.2	7.9	29.1	40.5	45.0	54.8	60.0	63.6	67.2	66.4	71.7	61.2	70
Argentine <i>Roundup Ready</i> soybean trait ⁶	0.0	0.5	4.0	13.6	17.0	22.7	27.1	29.9	31.8	34.6	37.2	39.4	40
Brazilian <i>Roundup Ready</i> soybean trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	12.3	19.4	26.1	29
<i>Roundup Ready</i> soybean trait – other markets	0.0	0.0	0.0	0.3	0.6	0.6	1.0	1.6	2.5	5.8	5.6	6.9	7
Total Monsanto Trait Acres: Soybeans													
Total Absolute U.S. Soybean Trait Acres⁴	1.2	7.9	29.1	40.5	45.0	54.8	60.0	63.6	67.2	66.4	71.7	61.2	69-70
Total Absolute WW Soybean Trait Acres⁴	1.2	8.4	33.1	54.4	62.6	78.1	88.1	95.1	108.9	119.1	133.9	133.6	145-146
CANOLA													
Single-Trait Acres													
U.S. <i>Roundup Ready</i> canola trait	0.0	0.0	0.0	0.2	0.7	0.9	0.9	0.7	0.6	0.6	0.5	0.6	<1
Canadian <i>Roundup Ready</i> canola trait	0.0	0.5	2.8	4.9	4.3	4.0	4.0	5.5	5.7	6.1	5.1	6.8	6.5
Total Monsanto Trait Acres: Canola													
Total Absolute U.S. Canola Trait Acres⁴	0.0	0.0	0.0	0.2	0.7	0.9	0.9	0.7	0.6	0.6	0.6	0.6	<1
Total Absolute WW Canola Trait Acres⁴	0.0	0.5	2.8	5.1	5.0	4.9	4.9	6.2	6.3	6.7	5.6	7.4	6-7
ALL CROPS													
Total Absolute Monsanto Trait Acres⁴	3	14	53.4	86.5	96.5	118.3	135.3	150.8	176.6	194.6	218.4	246.5	259-266
Total Absolute U.S. Monsanto Trait Acres⁴	3.0	12.9	46.2	66.4	72.7	85.8	97.2	106.9	121.2	123.3	131.1	137.8	145-150

¹ Years presented are based on Monsanto's fiscal year, which begins Sept. 1 and closes Aug. 31. Traits are those developed and marketed by Monsanto, which are sold in Monsanto's branded seed and licensed to other seed companies.

² Roundup Ready corn includes traits tolerant to *Roundup* branded agricultural herbicides including *Roundup Ready* Corn 2

³ Monsanto trait acre sold as part of a double- or triple-stacked combination with other competitive trait(s).

⁴ Absolute acres represent the total number of acres with at least one trait.

⁵ "Trait-Specific Summaries" represent total acres by trait, regardless of the combination they are sold in (single, double, triple). The totals are reflected in the "Total Monsanto Trait Acres."

⁶ All *Roundup Ready* soybean trait acres in Argentina are currently non-paying.

⁷ Includes *YieldGard VT Triple* and *YieldGard Plus* with *Roundup Ready* Corn 2