



PRELIMINARY FORECAST

Monsanto Biotechnology Trait Acreage: Fiscal Years 1996 to 2006¹

Updated: June 29, 2006

In millions of acres

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006F
SOYBEANS											
Single-Trait Acres											
U.S. Roundup Ready soybean trait	1.2	7.9	29.1	40.5	45.0	54.8	60.0	63.6	67.2	66.4	71
Argentine Roundup Ready soybean trait ²	0.0	0.5	4.0	13.6	17.0	22.7	27.1	29.9	31.8	34.6	37
Brazilian Roundup Ready soybean trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	12.3	19
Roundup Ready soybean trait – other	0.0	0.0	0.0	0.3	0.6	0.6	1.0	1.6	2.5	5.8	6
Total Monsanto Trait Acres: Soybeans											
Total Absolute U.S. Soybean Trait Acres ⁵	1.2	7.9	29.1	40.5	45.0	54.8	60.0	63.6	67.2	66.4	70 - 71
Total Absolute WW Soybean Trait Acres ⁵	1.2	8.4	33.1	54.4	62.6	78.1	88.1	95.1	108.9	119.1	132 - 133
CORN											
Single-Trait Acres											
U.S. Roundup Ready corn trait ⁶	0.0	0.0	0.9	2.1	2.6	3.4	5.6	6.9	8.3	10.9	10
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	13
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	<1
Total U.S. Single-Trait Acres	0.0	2.3	12.3	17.5	17.2	17.7	23.8	27.3	33.6	30.6	23 - 24
Roundup Ready corn trait – other	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.2	0.4	2
YieldGard Corn Borer traits – other	0.0	0.0	0.0	0.6	1.1	2.0	3.0	3.7	4.3	6.2	6
Total WW Single-Trait Acres	0.0	2.3	12.3	18.2	18.4	19.9	27.0	31.3	38.1	37.2	31 - 32
Double-Trait Acres											
U.S. YieldGard Corn Borer/Roundup Ready ⁶	0.0	0.0	0.0	0.0	0.1	1.2	2.2	5.1	8.0	11.1	12
U.S. YieldGard Rootworm/Roundup Ready ⁶	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	2
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	2
U.S. Roundup Ready/Other ^{4,6}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4
Total U.S. Double-Trait Acres	0.0	0.0	0.0	0.0	0.1	1.2	2.2	5.1	8.7	13.5	19 - 20
YieldGard Corn Borer/Roundup Ready – other	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	<1
Total WW Double-Trait Acres	0.0	0.0	0.0	0.0	0.1	1.2	2.3	5.2	8.9	13.7	20 - 21
Triple-Trait Acres											
U.S. YieldGard Plus/Roundup Ready ⁶	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5
U.S. Roundup Ready/Other/Other ^{4,6}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<1
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 - 6
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 - 6
Total Monsanto Trait Acres: Corn											
Total Absolute U.S. Corn Trait Acres ⁵	0.0	2.3	12.3	17.5	17.3	18.9	26.0	32.4	42.3	45.4	47 - 50
Total Absolute WW Corn Trait Acres ⁵	0.0	2.3	12.3	18.2	18.5	21.1	29.3	36.5	47.0	52.2	56 - 59
Trait-Specific Summaries³											
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	31 - 32
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	9 - 10
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	33 - 34
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	73 - 76

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006F
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
U.S. <i>Roundup Ready</i> Flex cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<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
U.S. <i>Bollgard</i> II cotton trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
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 - 3
<i>Roundup Ready</i> cotton trait – other	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	<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
Chinese <i>Bollgard</i> cotton trait	0.0	0.0	0.1	0.3	0.3	2.3	1.9	2.0	1.9	1.8	2
<i>Bollgard</i> I and II cotton traits – other	0.0	0.1	0.2	0.3	0.5	0.7	0.5	0.3	0.4	0.5	<1
Total WW Single-Trait Acres	1.8	2.8	4.4	6.3	6.4	8.6	8.1	7.5	7.4	8.8	14 - 15
Double-Trait Acres											
U.S. <i>Bollgard</i> I/ <i>Roundup Ready</i>	0.0	0.1	0.7	2.4	4.1	5.6	4.8	5.3	7.2	7.0	5
U.S. <i>Bollgard</i> III/ <i>Roundup Ready</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	<1
U.S. <i>Bollgard</i> III/ <i>Roundup Ready</i> Flex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
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	7 - 8
<i>Bollgard</i> I/ <i>Roundup Ready</i> - other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0
<i>Bollgard</i> III/ <i>Roundup Ready</i> - other	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	<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	8 - 9
Total Monsanto Trait Acres: Cotton											
Total Absolute U.S. Cotton Trait Acres⁵	1.8	2.7	4.8	8.2	9.7	11.2	10.3	10.2	11.1	10.9	9 - 11
Total Absolute WW Cotton Trait Acres⁵	1.8	2.8	5.2	8.8	10.4	14.2	13.0	13.0	14.9	16.9	22 - 24
Trait-Specific Summaries³											
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	7 - 8
Total U.S. <i>Roundup Ready</i> Flex trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2 - 3
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	4 - 5
Total U.S. <i>Bollgard</i> II trait	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.7	2 - 3
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	15 - 19
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	<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
Total Monsanto Trait Acres: Canola											
Total Absolute U.S. Canola Trait Acres⁵	0.0	0.0	0.0	0.2	0.7	0.9	0.9	0.7	0.6	0.6	<1
Total Absolute WW Canola Trait Acres⁵	0.0	0.5	2.8	5.1	5.0	4.9	4.9	6.2	6.3	6.7	5 - 6
ALL CROPS											
Total Absolute Monsanto Trait Acres⁵	3	14	53.4	86.5	96.5	118.3	135.3	150.8	176.6	194.6	215 - 222

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

³ "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."

⁴ Monsanto *Roundup Ready* corn trait acre sold as part of a stacked combination with other competitive insect trait(s) - preliminary data.

⁵ Absolute acres represent the total number of acres with at least one trait.

⁶ Roundup Ready corn includes Roundup tolerant traits including *Roundup Ready* Corn 2