

Agbio keeps on growing

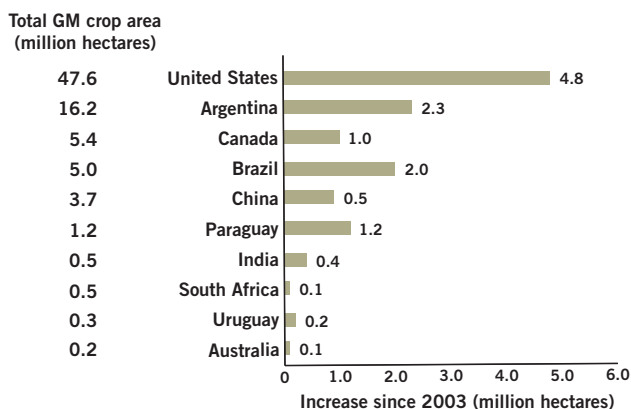
Stacy Lawrence

In 2004, global acreage of transgenic crops grew by one-fifth to more than 80 million hectares, valued at almost \$5 billion. The top transgenic crop continues to be soybeans (more than half of area planted with soybeans is transgenic) with maize, corn and cotton

having about 15% and 30%, respectively, of total area planted with transgenic seeds. The United States is by far the largest producer (57% of worldwide area planted) followed by Argentina, Canada, Brazil and China.

Global area of transgenic crops by country

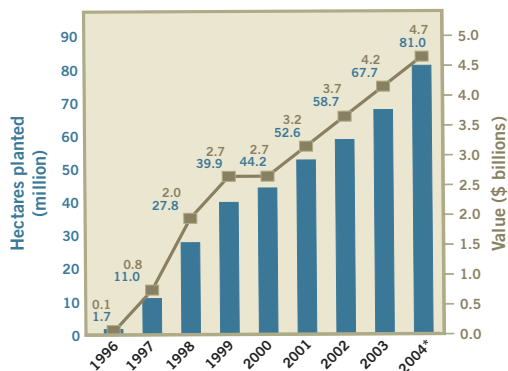
Relative newcomers Brazil, China, India and South Africa increased transgenic planting substantially last year.



Source: International Service for the Acquisition of Agri-Biotech Applications

Historical global area of biotech crops

The area of land planted with biotech plants has almost doubled since 2000, as has the value of those crops.



*Projection. Source: Croprosis, International Service for the Acquisition of Agri-Biotech Applications

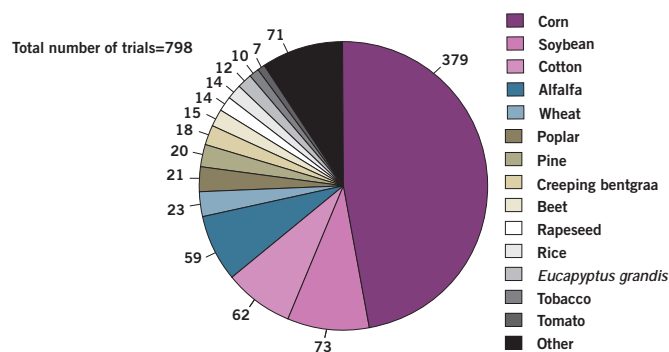
Global area by transgenic trait

Trait	Transgenic crop area (million hectares)	Increase since 2003 (million hectares)	Percent increase	Percent of total biotech crops
Herbicide tolerance	58.6	8.9	72%	72%
Insect resistance (Bt)	15.6	3.4	19%	20%
Bt/Herbicide tolerance	6.8	1	9%	8%
Virus resistance/Other	<0.1	<0.1	<1%	-

Source: International Service for the Acquisition of Agri-Biotech Applications

US field trials approved in 2004

Field trials were initiated for a total of 55 different transgenic crops in 2004, mostly in corn but also in alfalfa, wheat and certain tree species.



Source: Economic Research Service of the United States Department of Agriculture

Top 10 transgenic plant patent holders at USPTO

Rank	Entity	Utility patents held
1	Monsanto (St. Louis, MO, USA)	674
2	Du Pont (Wilmington, DE, USA)	565
3	Pioneer Hi-bred (Des Moines, Iowa)	449
4	US Department of Agriculture (Washington, DC, USA)	315
5	Syngenta (Basel, Switzerland)	284
6	Novartis (Basel, Switzerland)	230
7	University of California System	221
8	BASF (Ludwigshafen, Germany)	217
9	Dow Chemical (Midland, Michigan, USA)	214
10	Hoechst Japan (Frankfurt, Germany)	207

*Including subsidiaries. Data as of May 2004. Source: Economic Research Service of the United States Department of Agriculture

Global area of transgenic crop

Crop	Transgenic crop area (million hectares)	Increase since 2003 (million hectares)	Percent increase	Biotech area as a percent of total crop
Soybean	48.4	7	60%	56%
Maize	19.3	3.8	23%	14%
Cotton	9	1.8	11%	28%
Canola	4.3	0.7	6%	19%
Squash	<0.1	-	<1%	-
Papaya	<0.1	-	<1%	-

Source: International Service for the Acquisition of Agri-Biotech Applications

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