

(Bt) Cotton

2001. Benefits Assessment. Revised BT Crops Assessment. EPA.
www.epa.gov/pesticides/biopesticides/otherdocs/bt_reassess/6-Benefits.pdf.
2000. Economics of Growing Transgenic Cotton. International Cotton Advisory Committee (ICAC) Recorder. 18(1): 1-48.
2000. Response of the Environmental Protection Agency to Petition for Rulemaking and Collateral Relief Concerning the Registration and Use of Genetically Engineered Plants Expressing Bacillus thuringiensis Endotoxins. Environmental Protection Agency (EPA): 1 - 112.
- Agnew, G., Baker, P. 2001. Pest and Pesticide Usage Patterns in Arizona Cotton. Proceedings of the Beltwide Cotton Conference. 2: 1046-1054.
- Armstrong, J., Leser, J., Kraemer, G. 2000. An Inventory of the Key Predators of Cotton Pests on Bt and Non-Bt Cotton in West Texas. Proceedings of the Beltwide Cotton Conference. 2: 1030-1033.
- Becker, H. 2001. Insecticides Reduced in Runoff from Bt Cotton. Agricultural Research Service: 1-2. <http://www.ars.usda.gov/is/pr/2001/010307.htm>
- Bennett, R., Kambhampati, U., Morse, S., Ismael, Y. 2006. Farm-level Economic Performance of Genetically Modified Cotton in Maharashtra, India. Review of Agricultural Economics. 28(1): 59-71.
- Bennett, R., Morse, S., Ismael, Y. 2006. The Economic Impact of Genetically Modified Cotton on South African Smallholders: Yield, Profit and Health Effects. Journal of Development Studies. 42(4): 662-677.
- Bennett, R., Ismael, Y., Kambhampati, U., Morse, S. 2004. Economic Impact of Genetically Modified Cotton in India. Agbioforum. 7(3): 1-5.
- Bennett, R., Morse, S., Ismael, Y. 2003. The Benefits of Bt Cotton to Small-scale Producers in Developing Countries - the Case of South Africa. 7th ICABR Int'l Conference on Public Goods and Public Policy for Agricultural Biotechnology, Ravello, Italy, June 29 to July 3, 2003. Pages 1-11.
- Bennett, A. 2002. The Impact of Bt-Cotton on Small Holder Production in the Makhathini Flats, South Africa.
www.monsantoafrica.com/reports/bt_report/BtCottonReport.html.
- Betz, F., Hammond, B., Fuchs, R. 2000. Safety and Advantages of Bacillus thuringiensis-Protected Plants to Control Insect Pests. Regulatory Toxicology and Pharmacology. 32: 156 - 173.
- Beyers, L., Ismael, Y., Piesse, J., Thirtle, C. 2002. Can GM-Technologies Help the Poor. The Efficiency of Bt Cotton Adopters in the Makhathini Flats of Kwazulu-Natal. Agrekon. 41(1): 62-74.

Bosch, J., Fuchs, S., Pustejovsky, D., Mott, E., Albers, D. 2002. Yield and Economic Comparison of Bollgard® Varieties in the Texas Gulf Coast Region. Proceedings of the 2002 Beltwide Cotton Production Conference Part 2 - Jan. 8-12, 2002. 4 Pages.

Bryant, K., Robertson, W., Lorenz, G. 1999. Economic Evaluation of Bollgard® Cotton in Arkansas. Proceedings of the Beltwide Cotton Conference. 1: 349-350.

Bryant, K., Robertson, W., Lorenz, G. 1997. Economic Evaluation of Bollgard® Cotton in Arkansas: 1996. Proceedings of the Beltwide Cotton Conference. 1: 358-359.

Butler, D. , Cook, M.P. 2003. Northern Bobwhite Chick-arthropod Food Abundance in Insect Resistant GM Cotton Crops. The BCPC International Congress - Crop Science and Technology 2003. 10-12 November: 627-630.

Cabanilla, L., Abdoulaye, T., Sanders, J. 2003. Economic Cost of Non-adoption of Bt Cotton in West Africa - With Special Reference to Mali. 7th ICABR Int'l Conference on Public Goods and Public Policy for Agricultural Biotechnology, Ravello, Italy, June 29 to July 3, 2003: 1-20.

Carlson, G., Marra, M. 1998. Yield, Insecticide Use, and Profit Changes from Adoption of Bt Cotton in the Southeast. Proceedings Beltwide Cotton Conferences. 2: 973-974.

Carpenter, J., Sankula, S., Silvers, C. , Gianessi, L. 2004. Insecticidal Bacillus thuringiensis Plants Versus Chemical Insecticides. ACS Symposium Series, 866, Agricultural Biotechnology. 866. Chapter 3: 37-51.

Carpenter, J., Felsot, A., Goode, T., Hammig, M., Onstad, D., Sankula, S. 2002. Comparative Environmental Impacts of Biotechnology-derived and Traditional Soybean, Corn, and Cotton Crops. Council for Agricultural Science and Technology CAST: I-189.

Carpenter, J., Gianessi, L. 2001. Agricultural Biotechnology: Updated Benefit Estimates. National Center for Food and Agricultural Policy: 1-48.

Carpenter, J., Gianessi, L. 2000. Value of Bt and Herbicide-Resistant Cottons. Proceedings Beltwide Cotton Conferences, San Antonio, USA. 1: 76-79.

Cattaneo, M., Yafuso, C., Schmidt, C., Huang, C., Rahman, M., Olson, C., Ellers-Kirk, C., Orr, B., Marsh, S., Antilla, L., Dutilleul, P., Carriere, Y. 2006. Farm-scale Evaluation of the Impacts of Transgenic Cotton on Biodiversity, Pesticide Use and Yield. Proceedings of the National Academy of Sciences PNAS. 103(20): 7571-7576.

Cooke, F., Scott, W., Meeks, R., Parvin, D. 2000. The Economics of Bt Cotton in the Mississippi Delta-A Progress Report. Proceedings of the Beltwide Cotton Conference. 2: 332-334.

de Bianconi, M.G. 2003. Two Years of Insect Protected Bt Transgenic Cotton in Argentina - Regional Field Level Analysis of Financial Returns and Insecticide Use. Journal of New Seeds. 5(2-3): 223-235.

Deville, S., Mullins, J., Mills, J. 2002. Seven Years of Economic Comparisons of Bollgard® Cotton. Proceedings of the 2002 Beltwide Cotton Production Conference Part 3A - Jan. 8-12, 2002: 6 Pages.

Edge, J., Benedict, J., Carroll, J., Reding, H. 2001. Bollgard® Cotton: An Assessment of Global Economic, Environmental and Social Benefits. Journal of Cotton Science. 5(2): 121-136.

Elbehri, A., MacDonald, S. 2004. Estimating the Impact of Transgenic Bt Cotton on West and Central Africa: A General Equilibrium Approach. World Development. 32(12): 2049 - 2064.

Elena, M. 2001. Economic Advantage of Transgenic Cotton in Argentina. Proceedings of the Beltwide Cotton Conference. 2: 1066-1068.

Expert Panel on Biotechnology in Cotton. 2000. International Cotton Advisory Committee: 1-16.

Falck-Zepeda, J., Traxler, G., Nelson, R. 2000. Rent Creation and Distribution from Biotechnology Innovations: The Case of Bt Cotton and Herbicide-tolerant Soybeans in 1997. Agribusiness. 16(1): 1 - 23.

Falck-Zepeda, J., Traxler, G., Nelson, R. 2000. Surplus Distribution from the Introduction of a Biotechnology Innovation. American Journal of Agricultural Economics. 82: 360-369.

Fernandez-Cornejo, J., McBride, W. 2000. Genetically Engineered Crops for Pest Management in U.S. Agriculture: Farm-Level Effects. Economic Research Service/U.S. Department of Agriculture-Agricultural Economic Report (AER) – 786: 1-23.

Frisvold, G., Tronstad, R., Reeves, J. 2004. Impacts of Bt Cotton Adoption in the United States and China. 2004 Beltwide Cotton Conferences, San Antonio, TX - January 5-9: Pages 638-640.

Frisvold, G., Tronstad, R., Mortensen, J. 2000. Adoption of Bt Cotton: Regional Differences in Producer Costs and Returns. Beltwide Cotton Conferences, Economics and Marketing Conference: 1-7.

Gianessi, L., Silvers, C., Sankula, S., Carpenter, J. 2002. Plant Biotechnology - Current and Potential Impact for Improving Pest Management in US Agriculture. An Analysis of 40 Case Studies. NCFAP. National Center for Food and Agricultural Policy: 1-75.

Gianessi, L., Silvers, C. 2001. The Potential for Biotechnology to Improve Crop Pest Management in the US: 30 Crop Study. National Center for Food and Agricultural Policy: 1-13.

Gianessi, L., Carpenter, J. 1999. Agricultural Biotechnology Insect Control Benefits. National Center for Food and Agricultural Policy: 1-78.

- Gregory, P. 2002. Adoption of Bt Cotton by Small-scale Farmers in South Africa. *Pesticide Outlook*: 31-34.
- Halcomb, J., Benedict, J., Cook, B., Ring, D. 1996. Survival and Growth of Bollworm and Tobacco Budworm on Non-transgenic and Transgenic Cotton Expressing a CryIA Insecticidal Protein (Lepidoptera: Noctuidae). *Environmental Entomology*. 25(2): 250-255.
- Heimlich, R., Fernandez-Cornejo, J., McBride, W., Klotz-Ingram, C., Jans, S., Brooks, N. 2000. Genetically Engineered Crops: Has Adoption Reduced Pesticide Use?. *Agricultural Outlook*: 13-17.
- Henneberry, T. 2003. History of Pink Bollworm -Lepidoptera-Gelechiidae- Control in the Southwestern Cotton Growing Areas of the United States and the Positive Impact of Transgenic Bt Cotton on Integrated Pest Management. *Recent Research Development. Plant Science*. 1: 111-132.
- Hossain, F. , Pray, C. , Lu, Y. , Huang, J. , Fan, C. , Hu, R. 2004. Genetically Modified Cotton and Farmers' Health in China. *International Journal of Occupational and Environmental Health*. 10: 296-303.
- Huang, J., Hu, R., Fan, C., Pray, C., Rozelle, S. 2003. Bt Cotton Benefits, Costs and Impacts in China. *IDS Working Paper 202. Institute of Development Studies*: 1-22.
- Huang, J., Hu, R., Pray, C., Qiao, F., Rozelle, S. 2003. Biotechnology as an Alternative to Chemical Pesticides: A Case Study of Bt Cotton in China. *Agricultural Economics*. 29(1): 55 - 67.
- Huang, J., Rozelle, S., Pray, C., Wang, Q. 2002. *Plant Biotechnology in China. Science*. 295: 674-677.
- Huang, J., Hu, R., Rozelle, S., Qiao, F., Pray, C. 2001. Smallholders, Transgenic Varieties, and Production Efficiency. *The Case of Cotton Farmers In China. Department of Agricultural and Resource Economics. University of California Davis. No. 01-015. 30 Pages*.
- Huesing, J. , English, L. 2004. The Impact of Bt Crops on the Developing World. *AgBioforum*. 7(1-2): 84-95.
- Ismael, Y., Bennett, R., Morse, S., Buthelezi, J. 2002. Bt Cotton, Pesticides, Labour and Health - A Case Study of Smallholder Farmers in The Makhathini Flats, Republic of South Africa. 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-13.
- Ismael, Y., Bennett, R., Morse, S. 2002. Do Small-scale Bt Cotton Adopters in South Africa Gain an Economic Advantage? 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-16.
- Ismael, Y., Beyers, L., Lin, L., Thirtle, C. 2002. Smallholder Adoption and Economic Impacts of Bt Cotton in the Makhathini Flats, South Africa. *International Consortium on*

Agricultural Biotechnology Research (ICABR).

<http://www.economia.uniroma2.it/conferenze/icabr01/abstract/ismael.htm>

Ismael, Y., Bennett, R., Morse, S. 2001. Biotechnology in Africa - The Adoption and Economic Impacts of Bt Cotton in the Makhathini Flats, Republic of South Africa. AfricaBio Conference - Biotechnology Conference for Sub Saharan Africa, 26-27th September 2001, Johannesburg, South Africa: 1-20.

Ismael, Y., Bennett, R., Morse, S. 2001. Can Farmers in the Developing Countries Benefit from the Modern Technology - Experience from the Makhathini Flats, Republic of South Africa. Crop Biotech Brief - ISAAA 1(5). www.isaaa.org/kc.

Ismael, Y., Bennett, R., Morse, S. 2001. Farm Level Impact of Bt Cotton in South Africa. Biotechnology and Development Monitor. 48: 15-19.

Ismael, Y., Thirtle, C., Beyers, L. 2001. Efficiency Effects of Bt Cotton Adoption by Smallholders in Makhathini Flats. KwaZulu-Natal, South Africa Paper for the 5th International Conference on Biotechnology, Science and Modern Agriculture: A New Industry at the Dawn of the Century. Ravello, Italy, June 2000.

James, C. 2006. Global Status of Commercialized Biotech/GM Crops - 2005. Executive Summary. Brief 34. ISAAA: 1-12

James, C. 2004. Preview: Global Status of Commercialized Biotech/GM Crops. ISAAA Brief 32: 1-12.

James, C. 2003. Global Review of Commercialized Transgenic Crops: 2002 Feature: Bt Maize. ISAAA Brief 29: 1-199.

James, C. 2002. Global Review of Commercialized Transgenic Crops: 2001 Feature: Bt cotton. ISAAA Brief 26: 1-184.

James, C. 2002. Preview: Global Review of Commercialized Transgenic Crops. ISAAA Brief 27: 1-24.

James, C. 2001. Preview: Global Review of Commercialized Transgenic Crops. ISAAA Brief 21: 1-18.

James, C. 2000. Global Status of Commercialized Transgenic Crops: 1999. ISAAA Brief 17: 1-78.

James, C. 1998. Global Review of Commercialized Transgenic Crops. 1998. ISAAA Brief 8: 1-52.

Jing-Yuan, X., Jie, C., Li-hua, M., Shuang-ling, D., Xue-fen, C. 1999. The Role of Transgenic Bt Cotton in Integrated Insect Pest Management (English Translation). Acta Gossypii Sinica. 11(2): 57- 64.

Johnson, L. 2002. The Benefits of Biotech. Cotton International. 69: 48-50.

Kalaitzandonakes, N., Suntornpithug, P. 2001. Why Do Farmers Adopt Biotech Cotton. Beltwide Cotton Conferences: 1-11.

Karner, M., Hutson, A. L., Goodson, J. 2000. Bollgard® - Impact and Value to Oklahoma's Cotton Industry 1996 – 1999. Proceedings of the Beltwide Cotton Conference. 2: 1289-1293.

Kirsten, J., Gouse, M., Jenkins, L. 2002. Bt Cotton in South Africa - Adoption and the Impact on Farm Incomes Amongst Small-Scale and Large-Scale Farmers. 6th International ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-11.

Knox, O., Constable, G., Pyke, B., Gupta, V. 2006. Environmental Impact of Conventional and Bt Insecticidal Cotton Expressing One and Two Cry Genes in Australia. Australian Journal of Agricultural Research. 57: 501-509.

Klotz-Ingram, C., Jans, S., Fernandez-Cornejo, J., McBride, W. 1999. Farm-Level Production Effects Related to the Adoption of Genetically Modified Cotton for Pest Management. AgBioForum. 2(2): 73-84.

Layton, M., Williams, M., Long, J. 2000. Performance of Bt Cotton in Mississippi, 1999. Beltwide Cotton Conferences. 2: 1037-1039.

Lu, Y. , Pray, C. , Hossain, F. 2002. An Econometric Analysis of the Reduction in Pesticide Poisoning Due to Bt Cotton Use in China. 6th Int'l ICABR Conference, Ravello, Italy, July 11-14, 2002: 1-21.

Marra, M., Pardey, P., Alston, J. 2002. The Payoffs to Agricultural Biotechnology - An Assessment of the Evidence. Environment and Production Technology Division (EBTD), International Food Policy Research Institute. No. 87: 1-57.

Mellet, M., Schoeman, A., Broodryk, S. , Hofs, J. 2004. Bollworm (*Helicoverpa armigera* -hubner-, Lepidoptera: Noctuidae- Occurrences in Bt- and Non-Bt-cotton Fields, Marble Hall, Mpumalanga, South Africa. African Entomology. 12(1): 107-115.

Morse, S., Bennett, R., Ismael, Y. 2007. Inequality and GM Crops: A Case-Study of Bt Cotton in India. AgBioForum. 10(1): 44-50.

Morse, S., Bennett, R., Ismael, Y. 2006. Environmental Impact of Genetically Modified Cotton in South Africa. Agriculture Ecosystems and Environment. 117(4): 277-289.

Morse, S., Bennett, R., Ismael, Y. 2005. Bt-cotton Boosts the Gross Margin of Small-scale Cotton Producers in South Africa Special Issue: Agricultural Biotechnology in Developing Countries: Perception, Politics and Policies. International Journal of Biotechnology. 7(1/2/3): 72 - 83.

Morse, S., Bennett, R., Ismael, Y. 2004. Why Bt Cotton Pays for Small-Scale Producers in South Africa. Nature Biotechnology. 22(4): 379-380.

Moser, H., McCloskey, W., Silvertooth, J. 2000. Performance of Transgenic Cotton Varieties in Arizona. Proceedings of the Beltwide Cotton Conference. 2: 497-499.

- Mullins, W., Hudson, J. 2004. Bollgard® II versus Bollgard® Sister-Line Economic Comparisons - 2003. 2004 Beltwide Cotton Conferences, San Antonio, TX - January 5-9: 1660-1661.
- Mullins, J., Mills, J. 1999. Economics of Bollgard® Versus Non-Bollgard® Cotton in 1998. Proceedings of the Beltwide Cotton Conference. 2: 958-961.
- Novillo, C., Soto, J., Costa, J. 1999. Resultados en Espana con Variedades de Algodon Protegidas Geneticamente Contra las Orugas de las Capsulas. Bol. San. Beg. Plagas. 25: 383-393.
- Pray, C., Ma, D., Huang, J., Qiao, F. 2001. Impact of Bt Cotton in China. World Development. 29(5): 1-34.
- Pray, C., Huang, J., Hu, R., Rozelle, S. 2002. Five Years of Bt Cotton in China - the Benefits Continue. The Plant Journal. 31(4): 423-430.
- Price, G., Lin, W., Falck-Zepeda, J., Fernandez-Cornejo, J. 2003. Size and Distribution of Market Benefits from Adopting Biotech Crops. USDA. ERS. Technical Bulletin Number 1906. November: 1-40.
- Purcell, J., Perlak, F. 2004. Global Impact of Insect-Resistant Bt Cotton. AgBioForum. 7(1-2): 27-30.
- Purcell, J., Oppenhuizen, M., Wofford, T., Reed, A., Perlak, F. 2004. The Story of Bollgard Cotton. IN Handbook of Plant Biotechnology. Eds. P. Christou, H. Klee. Pages 1147-1163.
- Qaim, M., De Janvry, A. 2005. Bt Cotton and Pesticide Use in Argentina: Economic and Environmental Effects. Environment and Development Economics. 10: 179 - 200.
- Qaim, M., Cap, E., Janvry, A. 2003. Agronomics and Sustainability of Transgenic Cotton in Argentina. Agbioforum. 6(1-2): 41-47.
- Qaim, M., Janvry, A. 2003. Bt Cotton, Pesticide Use and Resistance Development in Argentina. Int'l Consortium on Agricultural Biotechnology Research. 7th ICABR International Conference, Ravello, Italy, June 29-July 3, 2003: 1-25.
- Qaim, M. 2003. Bt Cotton in India: Field Trial Results and Economic Projections. World Development. 31(12): 2115-2127.
- Qaim, M., Zilberman, D. 2003. Yield Effects of Genetically Modified Crops in Developing Countries. Science. 299: 900-902.
- Reed, J. T., Stewart, S., Laughlin, D., Harris, A., Furr, R., Ruscoe, A. 2000. Bt and Conventional Cotton in the Hills and Delta of Mississippi: 5 Years of Comparison. Proceedings of the Beltwide Cotton Conference. 2: 1027-1030.
- ReJesus, R., Greene, J., Hammig, M., Curtis, E. 1997. Economic Analysis of Insect Management Strategies for Transgenic Bt Cotton Production in South Carolina. Proceedings of the Beltwide Cotton Conference. 1: 247-251.

Ridge, R., Turnipseed, S., Sullivan, M. 2000. Field Comparison of Genetically-Modified Cottons Containing One Strain (Bollgard®) and Two Strains (Bollgard® II) of Bacillus thuringiensis kurstaki. Proceedings of the Beltwide Cotton Conference. 2: 1057-1058.

Sankula, S. 2006. Quantification of the Impacts on US Agriculture of Biotechnology-derived Crops Planted in 2005. NCFAP. 110 pages.

Sankula, S. , Blumenthal, E. 2004. Impacts on US Agriculture of Biotechnology-derived Crops Planted in 2003 - An Update of Eleven Case Studies. NCFAP National Center for Food and Agricultural Policy: 1-92.

Schell, J. 1997. Cotton Carrying the Recombinant Insect Poison Bt Toxin: No Case to Doubt the Benefits of Plant Biotechnology. Current Opinion in Biotechnology. 8(2): 235-236.

Seward, R., Shelby, P., Danehower, S. 2000. Performance and Insect Control Cost of Bollgard® vs Conventional Varieties in Tennessee. Proceedings of the Beltwide Cotton Conference. 2: 1055-1057.

Shankar, B., Thirtle, C. 2005. Pesticide Productivity and Transgenic Cotton Technology - The South African Smallholder Case. Journal of Agricultural Economics. 56(1): 97-116.

Smith, R. 1997. An Extension Entomologist's 1996 Observations of Bollgard® (Bt) Technology. Proceedings of the Beltwide Cotton Conference. 2: 856-858.

Stark, C. 1997. Economics of Transgenic Cotton: Some Indications Based on Georgia Producers. Proceedings of the Beltwide Cotton Conference. 1: 251-253.

Teran, A., Martinez-Carrillo, J., Rodriguez, C., Blanco, CA. 2006. Bollgard® Cotton and Pyrethroid Resistance in Tobacco Budworm in Tamaulipas, Mexico. Proceedings - Beltwide Cotton Conferences. 1104-1111.

Teran-Vargas, A., Rodriguez, J., Blanco, C., Martinez-Carrillo, J., Cibrian-Tovar, J., Sanchez-Arroyo, H., Rodriguez-Del-Bosque, L., Stanley, D. 2005. Bollgard® Cotton and Resistance of Tobacco Budworm (Lepidoptera: Noctuidae) to Conventional Insecticides in Southern Tamaulipas, Mexico. Journal of Economic Entomology. 98(6): 2203-2209.

Traxler, G., Godoy-Avila, S. 2004. Transgenic Cotton in Mexico. AgBioForum. 7(1-2): 57-62.

Traxler, G., Godoy-Avila, S., Falck-Zepeda, J., Espinoza-Arellano, J. 2001. Transgenic Cotton in Mexico: Economic and Environmental Impacts. Abstract Online. www.biotech-info.net/Bt_cotton_Mexico.html.

Traxler, G., Falck-Zepeda, J. 1999. The Distribution of Benefits from the Introduction of Transgenic Cotton Varieties. AgBioForum. 2(2): 94 - 98.

Wier, A., Mullins, J., Mills, J. 1998. Bollgard® Cotton-Update and Economic Comparisons Including New Varieties. Proceedings of the Beltwide Cotton Conference. 2: 1039-1040.

Williams, M. 1997. Cotton Insect Losses 1979–1996. Proceedings Beltwide Cotton Conferences. 2: 854-856.

Xia, J., Cui, J., Ma, L., Dong, S., Cui, X. 1999. The Role of Transgenic Bt Cotton in Integrated Insect Pest Management. Acta Gossypii Sim. 11: 57–64.