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The Ecological Risks of Engineered Crops (Hardback)

By Jane Rissler

MIT Press Ltd, United States, 1996. Hardback. Book Condition: New. 234 x 159 mm. Language: English . Brand New Book. What will it mean to have a steady stream of animal and microbial genes entering the gene pools of plants in wild ecosystems? Private companies and the federal government are pouring significant resources into biotechnology, and the major application of genetic engineering to agriculture is transgenic crops. This carefully reasoned science and policy assessment shows that the commercialization and release of transgenic crops on millions of acres of farmland can pose serious -- and costly -- environmental risks. The authors propose a practical, feasible method of conducting precommercialization evaluations that will balance the needs of ecological safety with those of agriculture and business, and that will assist governments seeking to identify and protect against two of the most significant risks.Rissler and Mellon first define transgenic plants and review research currently under way in the field of crop biotechnology. They then identify and categorize the environmental risks presented by commercial uses of transgenic crops. These include the potential of transgenic crops to become weeds or to produce weeds with transgene properties such as herbicide resistance that may require costly control programs. Plants...

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