



Glyphosate Resistance in Crops and Weeds: History, Development, and Management

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New technologies are becoming available for managing glyphosate resistant (GR) weeds and reducing their spread. GR crop technology has revolutionized crop production in the developed world and the benefits are gradually spilling over to the developing world. In order to sustain an effective, environmentally safe herbicide such as glyphosate and the GR crop technology well in to the future, it is imperative that the issue of GR weeds be comprehensively understood. This book provides such an essential, up-to-date source of information on glyphosate resistance for researchers, extension workers, land managers, government personnel, and other decision makers.

- Provides comprehensive coverage of the intensely studied topic of glyphosate resistant (GR) in crops
- Details the development of glyphosate resistance and how to detect and manage the problem in crops
- Helps standardize global approaches to glyphosate resistance
- Encompasses interdisciplinary approaches in chemistry, weed science, biochemistry, plant physiology, plant biotechnology, genetics, ecology
- Includes a chapter on economic analysis of GR impact on crops

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Editorial Review

Review

"The book provides a very useful review for researchers into GR crops and weeds, as well as to those involved in education and extension, and decision-making in the approval of GM crops. It exemplifies the complexities and consequences of resistance development in general." (The Journal of Experimental Agriculture, 1 October 2011)

"Features contributions from leading experts in the many disciplines needed to fully understand glyphosate-resistant crops and weeds. The authors have reviewed and analyzed all the latest research findings as well as the latest technologies developed to manage GR crops and weeds." (*Chemical & Engineering News*, December 2010)

"This book provides such an essential, up-to-date source of information on glyphosate resistance for researchers, extension workers, land managers, government personnel, and other decision makers and provides comprehensive coverage of the intensely studied topic of glyphosate resistant (GR) in crops". (*Quote.com*, 23 November 2010)

From the Back Cover

Presents the latest technology and strategies for managing glyphosate-resistant weeds

Glyphosate-resistant (GR) crop technology has revolutionized crop production in many parts of the world, offering such benefits as reduced fuel costs and improved soil conservation; however, GR weeds are becoming one of the most pressing problems in crop protection, threatening the sustainability of glyphosate and GR crop technology. This book details the development of glyphosate resistance, offering interdisciplinary approaches for managing GR weeds and reducing their spread.

Glyphosate Resistance in Crops and Weeds features contributions from leading experts in the many disciplines needed to fully understand GR crops and weeds. The authors have reviewed and analyzed all the latest research findings as well as the latest technologies developed to manage GR crops and weeds.

Coverage includes:

- Developmental processes of first and subsequent generations of GR crops
- A separate chapter on the economic impact of GR weeds
- Strategies for effectively managing glyphosate resistance
- Regional management issues surrounding GR weeds around the world
- Genetics and genomics of glyphosate resistance
- Methods of testing for glyphosate resistance

References guide readers to the primary literature for further investigation of individual topics. A compilation of commonly used terms in herbicide resistance and their definitions is also provided.

With the productivity and health of croplands threatened around the world by GR weeds, this review of glyphosate resistance is essential for land managers, weed scientists, plant biologists, crop consultants, and agronomists.

About the Author

VIJAY K. NANDULA, PhD, is an assistant research professor at Mississippi State University. His current research focuses on monitoring, documenting, and characterizing the herbicide-resistant weed populations in Mississippi, focusing on their level of resistance, mechanisms, multiple resistance, and biology.

Users Review

From reader reviews:

Sonya Wright:

Have you spare time to get a day? What do you do when you have more or little spare time? Yes, you can choose the suitable activity intended for spend your time. Any person spent all their spare time to take a walk, shopping, or went to often the Mall. How about open or even read a book eligible Glyphosate Resistance in Crops and Weeds: History, Development, and Management? Maybe it is for being best activity for you. You know beside you can spend your time together with your favorite's book, you can smarter than before. Do you agree with its opinion or you have other opinion?

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Reading a guide tends to be new life style in this particular era globalization. With reading through you can get a lot of information that can give you benefit in your life. Having book everyone in this world can easily share their idea. Books can also inspire a lot of people. A lot of author can inspire all their reader with their story or maybe their experience. Not only the storyline that share in the textbooks. But also they write about the data about something that you need example of this. How to get the good score toefl, or how to teach your young ones, there are many kinds of book that exist now. The authors in this world always try to improve their skill in writing, they also doing some investigation before they write to their book. One of them is this Glyphosate Resistance in Crops and Weeds: History, Development, and Management.

Jocelyn Lee:

Reading can called brain hangout, why? Because while you are reading a book specially book entitled

Glyphosate Resistance in Crops and Weeds: History, Development, and Management the mind will drift away through every dimension, wandering in each aspect that maybe unknown for but surely will end up your mind friends. Imaging every single word written in a publication then become one contact form conclusion and explanation that will maybe you never get prior to. The Glyphosate Resistance in Crops and Weeds: History, Development, and Management giving you an additional experience more than blown away your head but also giving you useful information for your better life in this era. So now let us present to you the relaxing pattern this is your body and mind is going to be pleased when you are finished examining it, like winning an activity. Do you want to try this extraordinary shelling out spare time activity?

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