

Burndown and Early Season Weed Control—South



What You'll Learn...

- A significant portion of yield is at risk if early-emerging weeds are allowed to compete with crops during the first 4 weeks after planting.
- Burndown herbicide applications are an essential part of weed management in corn, soybean, and cotton.
- Environmental conditions affect herbicide performance, weed susceptibility to herbicides, and crop development.
- Additional information on the importance of Burndown and Early Season Weed Control can be found in the Considerations for Burndown and Early Season Weed Management Spotlight on http:// roundupreadyPLUS.com

What is at Stake?

If left uncontrolled, weeds can cause reduced yield potential, crop quality loss, harvest difficulties, and cause future weed management issues due to weed seed production. Effective use of herbicides presents growers with an attractive return on investment as well. Annual herbicide sales in the U.S. are approximately \$7 billion and return approximately \$26 billion due to higher crop yield and better quality products.1

Treatment Recommendations

Fields should be scouted and weeds controlled throughout the season. The timing of a herbicide application should take into consideration the protection of yield potential, correct herbicide use rate for weed size, and environmental conditions.

Weed management tactics for tough-to-control weeds such as marestail, giant ragweed, kochia, lambsquarters, *Amaranthus* species, and others can be found at http://www.roundupreadyPLUS.com.

ı	Table 1. Burndown and ear	v season weed contro	I herbicide application	recommendations by region.
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	Practice	Corn Product Recommendations	Soybean Product Recommendations
מאר	Burndown	Roundup PowerMAX® + dicamba or 2,4-D	Roundup PowerMAX® II, + dicamba or 2,4-D
Midsodiii/ Sodiiieasi	Preplant or PRE	Roundup PowerMAX + Harness® Brands, Degree Xtra®, TripleFLEX® Herbicide, TripleFLEX® II Herbicide or Warrant® Herbicide	Gramoxone® SL + Warrant® Herbicide, Rowel™ Herbicide, Rowel™ FX Herbicide, Fierce® XLT, Valor® , Valor® XLT, Authority® MAXX, or Authority® MTZ
onde	Post 1	Roundup PowerMAX + IMPACT® herbicide, Degree	Roundup PowerMAX II + Warrant Herbicide + Cobra® or Flexstar®
<u> </u>	Post 2	Xtra, Warrant Herbicide, or atrazine	Roundup PowerMAX II + Warrant Herbicide
	Burndown	Roundup PowerMAX + dicamba or 2,4-D	Roundup PowerMAX II + dicamba or 2,4-D
odiliwest	Preplant or PRE	Roundup PowerMAX + Harness® Brands, Degree® Xtra, TripleFLEX® Herbicide, or TripleFLEX® II Herbicide	Gramoxone® SL + Warrant® Herbicide, Rowel™ Herbicide, Rowel™ FX Herbicide, Fierce® , Fierce® XLT, Valor® , Valor® XLT, Authority® MAXX, or Authority® MTZ
200	Post 1	Roundup PowerMAX + IMPACT® herbicide, Degree	Roundup PowerMAX II + Warrant Herbicide + Cobra® or Flexstar®
	Post 2	Xtra, Warrant Herbicide, or atrazine	Roundup PowerMAX II + Warrant Herbicide

Sources:

³ Pocock, J. 2011. 5 tips for com weed management | Start with a clean field - then control weeds early as they reach 4 inches. Corn and Soybean Digest. Web sources verified 02/09/2015.



¹The value of herbicides in U.S. crop production—2005 update. Executive Summary. Crop Life Foundation. http://www.crolifefoundation.org.

² Hartzler, R. 2003. Is your weed management program reducing your economic return? Iowa State University Weed Science. http://www.weeds.iastate.edu







Minimize the Risk of Weed Resistance

- Integrated weed management principles should be applied. Multiple sites-of-action with overlapping weed spectrums should be used in rotation, sequences, or mixtures.
- The full recommended herbicide rate and proper application timing should be used for the hardest-to-control weed species in the field.
- Fields should be scouted after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
- The field should be monitored and equipment cleaned between sites.

Table 2. Burndown and early season weed control herbicide application recommendations in cotton for the Southwest region.

	Practice	Product	
	Fall	Triflurex® or Pendimax®	
East TX	Preplant	Roundup PowerMAX® II + Warrant® Herbicide, Rowel™ Herbicide, or Valor®	
Ea	Planting	Gramoxone® SL + Cotoran® 4L, Direx® 4L, Pyrimax® 3.25L, or Pendimax	
×	Preplant	Triflurex or Pendimax	
West TX	Preplant	Roundup PowerMAX II + Rowel Herbicide, Warrant Herbicide, or Valor and/or 2,4-D	
>	Planting	Gramoxone SL + Cotoran 4L or Direx 4L	
na ¹	Preplant	Dual Magnum or pendimethalin	
Arizona ¹	Planting	Pendimethalin or Triflurex + Caparol®	

Warant Herbicide is not labeled for Arizona

No more than two applications of Warrant Herbicide may be applied in a single growing season. Always read and follow pesticide label directions.

Table 3. Burndown and early season weed control herbicide application recommendations in cotton for the Southeast and Midsouth regions.

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Practice	Product			
Burndown (Conventional Tillage)	Roundup PowerMAX®II + dicamba or 2,4-D			
Preemergence (Conventional Tillage)	Gramoxone® SL + Reflex® + Direx® 4L			
Preplant (Reduced Tillage)	Roundup PowerMAX II + Warrant® Herbicide, Rowel Herbicide, or Valor®			
Preemergence (Reduced Tillage)	Gramoxone SL + Direx 4L			
Burndown	Roundup PowerMAX II + dicamba or 2,4-D			
Preplant	Roundup PowerMAX II + Reflex® or Warrant Herbicide			
Preemergence	Gramoxone SL + Roundup PowerMAX II + Cotoran® 4L or Caparol®			
	Burndown (Conventional Tillage) Preemergence (Conventional Tillage) Preplant (Reduced Tillage) Preemergence (Reduced Tillage) Burndown Preplant			

No more than two applications of Warrant Herbicide may be applied in a single growing season. Always read and follow pesticide label directions

Roundup Technology® includes Monsanto's glyphosate-based herbicide technologies. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Grov vers should evaluate data from multiple locations and years whenever possib

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