

Arkansas Turfgrass Report 2007

Michael Richardson, Douglas Karcher,
and Aaron Patton, editors



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No findings, conclusions, or reports regarding any product or any process that is contained in any article published in this report should imply endorsement or non-endorsement of any such product or process.

Conversion table

Conversions for commonly used units:

1 ft = 0.30 meters = 30 cm

1 inch = 2.54 cm = 25.4 mm

1 ounce = 28.3 g

1 lb. = 0.454 kg = 454 g

1 PSI = 6.9 kPa

1 ppm = 1 mg / kg

1 gallon / acre = 9.35 L / ha

1 lb. / 1000 ft² = 4.9 g / m²

1 lb. / 1000 ft² = 48.8 kg / ha

1 lb. / 1000 ft² = 43.56 lb. / acre

1 lb. / acre = 1.12 kg / ha

To our colleagues and constituents...

Turfgrass Industry:

As the green industry continues to expand across Arkansas and the nation, the University of Arkansas, Division of Agriculture, has assembled an outstanding team of researchers, extension personnel, and educators that is working to solve some of the most pressing needs of that industry. One segment of the green industry that continues to provide a significant impact on the state's economy is the turfgrass industry, which includes lawn care, sports turf, sod production, and golf course maintenance. In a recent survey, it was estimated that the turfgrass and lawncare industry in Arkansas provides over 8,600 jobs and contributes over 336 million dollars annually to the state's economy.

The Arkansas Turfgrass Report is a new Research Series that will be published online on an annual basis by the Arkansas Agricultural Experiment Station and will feature significant findings made by turfgrass scientists over the past year. Although this publication will primarily summarize findings from the research program, it will also highlight advancements in teaching and extension programs, as well as significant issues that affect the industry as a whole. It is our desire that this publication will keep our stakeholders abreast of significant changes and advancements that affect our industry.

We are very proud of this first installment of the Arkansas Turfgrass Report, which includes 21 papers from faculty, staff, graduate students, and industry personnel. We hope that these findings will enhance your ability to conduct business in an efficient and productive manner.

We would also like to recognize the many organizations, companies, and individuals who have given their time, money, and talents to make our program successful. We are forever indebted to the many people who contribute to this program.

We hope that this publication will be of value to all persons with an interest in the Arkansas green industry.



Mike Richardson
Professor



Doug Karcher
Associate Professor



Aaron Patton
Assistant Professor

University of Arkansas Turfgrass Research Cooperators

The University of Arkansas turfgrass research team is grateful for assistance in the form of donated equipment and product, and research grants from the following associations and companies. Our productivity would be significantly limited without this support.

Acclima, Inc.	Precision Labs
Andersons Golf Products	Professional Turf Products
Aquatrols, Inc.	Profile Products Co.
Arkalite	Pure-Seed Testing
Arkansas Farm Bureau	Quail Valley Sod
Arkansas Turfgrass Association	Scotts Professional Turf
BASF	Seed Research of Oregon
Bayer Environmental Science	Seeds West, Inc.
Brandon Nichols, Fayetteville Country Club	Segway
Casey Crittenden, Bella Vista POA	Spectrum Brands
Cebeco International Seeds	Spectrum Technologies
Conwed Fabrics	Stillwater Equipment Co.
Crossover Liquor	Syngenta
DeWitt Company	Texas A&M University
Double Springs Sod Farm	The Toro Company
Dow AgroSciences	Tifsport Growers Association
Emerald Isle	Todd Towery, Pinnacle Country Club
Environmental Turf	Turfgrass Producers International
Ewing Irrigation	United States Golf Association
FMC Corporation	Winrock Grass Farm
Georgia Pacific	
Golf Course Superintendents Association of America	
Golf Course Superintendents Association of Arkansas	
Helena Chemical	
ISK Biotech	
Jacobsen (Textron)	
Jerry Musick, Razorback Park Golf Course	
Johnston Seed Co.	
Lebanon Seaboard	
Lee McBurnett, Stonebridge Meadows	
Lentz Sand and Gravel	
Milorganite	
National Turfgrass Evaluation Program	
NexGen Research	
Pat Berger, University of Arkansas Athletics	
Patten Seed Co.	
PBI Gordon	
Pennington Seed	
PermaGreen Supreme, Inc.	

We regret that some individuals or companies may have been inadvertently left off of this list. If your company has provided financial or material support for the program and is not mentioned above, please contact us so that your company's name can be added in future reports.

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