

# USGA Green Section Record Index

Volume 30, Number 1, 1992, through  
Volume 34, Number 6, 1996

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**1. ALL THINGS CONSIDERED [editorial comments]**

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Don't Kid Yourself	Brame, R. A.	1996. Sept/Oct 34(5):16.
Great Expectations [golfer playing conditions]	Gilhuly, Larry	1996. Mar/Apr 34(2):20.
Staying on Course [superintendent tenure]	Foy, John H.	1996. Jan/Feb 34(1):19.
The Need for Teamwork	Moore, James F.	1995. Nov/Dec 33(6):21.
"You've Gotta Know Your Limits"	Oatis, David A.	1995. Sept/Oct 33(5):21.
It's Still Just a Game	Moore, James Francis	1995. July/Aug 33(4):17.
A Low-Impact Golf Course? Probably Not!	Happ, Keith A.	1995. Jan/Feb 33(1):52.
For Heaven's Sake, Get Some Insurance	Oatis, David A.	1994. Sept/Oct 32(5):17.
The Religion of Golf	Gilhuly, Larry	1994. July/Aug 32(4):17.
Let's All Be Responsible	Vermeulen, Paul	1994. Mar/Apr 33(2):17.
Attitude Adjustment	Skorulski, James E.	1994. Jan/Feb 32(1):23.
How "Green" is Your Course [environmental responsibility]	Snow, James T.	1993. Nov/Dec 31(6):21.
Treat the Symptom . . . or Correct the Cause?	Moore, James Francis	1993. Sept/Oct 31(5):21.
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Paint 'em Green	O'Brien, Patrick M.	1992. Nov/Dec 30(6):21.
Employment Contracts: The Missing Link!	Brame, Robert A.	1992. Sept/Oct 30(5):21.
Why Not Pure Sand Greens?	Snow, James T.	1992. July/Aug 30(4):21.
Search Your Sole — Remove Your Spikes!	Gilhuly, Larry W.	1992. Mar/Apr 30(2):24.
Is the Grass Always Greener on the Other Side? [golf course comparisons]	Foy, John H.	1992. Jan/Feb 30(1):24.

**2. ARCHITECTURE — GOLF COURSE DESIGN AND CONSTRUCTION**



Choosing The Best Approach	Oatis, David A.	1996. Sept/Oct 34(5):8-10.
Developing Environmental Guidelines for Canadian Golf Courses	Yamada, Teri	1995. Mar/Apr 33(2):8-9.
Bringing in the Hired Guns — How to Choose an Environmental Consultant	Beall, Barbara B.	1995. Mar/Apr 33(2):13-15.
What Can You Do If Your Golf Course Has Gas? [landfill golf courses]	Gross, Patrick J.	1994. July/Aug 32(4):1-4.
Armchair Architect	Gross, Patrick J.	1994. May/June 33(3):9-10.
Sand Bunkers: Old and New	Baidy, Joseph G.	1994. May/June 33(3):19-21.
Strategies for Successful Long-Term Maintenance of Golf Courses	Crenshaw, Ben	1994. May/June 33(3):26-28.
Common Sense Cart Paths	Oatis, David A.	1994. Jan/Feb 32(1):1-5.
Golf Course Construction: Grow-In Philosophies	Buchen, Terry	1993. Sept/Oct 31(5):11-14.
Does Construction Relate to Maintenance Costs? Don't Underestimate Irrigation, Drainage, and Soil Systems	Kroeger, Ricky J.	1993. Sept/Oct 31(5):15-17.
The Environment: Where Environment, Nature, and the Game Can Coexist	Jones, Jr., Robert Trent	1993. May/June 31(3):2-5.
A Little Summer Project [course renovation]	Bailey, Mike	1992. Sept/Oct 30(5):6-10.
Touching Up The Mona Lisa [Pebble Beach Golf Links]	Miller, Ed	1992. Jan/Feb 30(1):13-15.

**3. DRAINAGE**

Suck-cess [drainage]	Gross, Patrick J.	1996. May/June 34(3):29.
Power Drainage for Healthier Turf — No Slope? No Drainage? No Problem!	Gast, Chuck	1995. May/June 33(3):31-32.
Managing Soil Water	Zontek, Stanley J.	1994. Sept/Oct 32(5):1-4.
Wet Greens — "Let's Try This First"	Carpenter, Les & D. A. Oatis	1994. July/Aug 32(4):5-8.
What Can You Do If Your Golf Course Has Gas? [landfill golf courses]	Gross, Patrick J.	1994 July/Aug 32(4):1-4.

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<b>3. DRAINAGE (continued)</b>		
Mr. Wizard Visits the Golf Course [soils, water quality]	Moore, James F.	1994. May/June 33(3):6-7.
Underground Photography	Vermeulen, Paul	1994. May/June 33(3):11.
Blockbuster Aerification	O'Brien, Patrick M.	1994. May/June 33(3):14.
No More Rolling Stones [drainage]	Oatis, David A.	1994. May/June 33(3):21-22.
Cupit's Narrows [drainage]	Gilhuly, Larry	1994. May/June 33(3):25.
Water Retention in Golf Greens: Sub-Root Zone Layering Effects	Taylor, Don, F. Williams & S. Nelson	1994. Jan/Feb 32(1):17-19.
Does Construction Relate to Maintenance Costs? Don't Underestimate Irrigation, Drainage, and Soil Systems	Kroeger, Ricky J.	1993. Sept/Oct 31(5):15-17.
A Quality Control Checklist for Successful Greens Reconstruction	Moore, James Francis	1993. July/Aug 31(4):1-5.
Biting the Bullet: Greens Complex Reconstruction at the Country Club of Virginia	Hess, Alan D.	1993. July/Aug 31(4):16-18.
Drainage Improvement — Remedy Without Reconstruction in New Zealand	McAuliffe, Keith W.	1992. Mar/Apr 30(2):6-10.
<b>4. ENVIRONMENTAL ISSUES</b>		
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Water Quality Monitoring at Queenstown Harbor	Shirk, Frank W.	1996. July/Aug 34(4):5-8.
Public Panic Over Pesticides?	Paling, John	1996. May/June 34(3):11-13.
Environmental Common Sense - A Sample "In-House" Audit	Moore, James Francis	1996. Jan/Feb 34(1):1-5.
The Old Westbury Code of Environmental Conduct	Weber, Arthur P.	1995. Sept/Oct 33(5):13-15.
What's Worth Worrying About in Life?	Kenna, Dr. Michael P.	1995. July/Aug 33(4):10-12.
The USGA's Environmental Strategies: What We've Got and What We Need	Snow, James T.	1995. May/June 33(3):3-6.
IPM, Monitoring, and Management Plans — A Mandate for the Future	Peacock, Dr. Charles H. & Dr. M. Smart	1995. May/June 33(3):10-14.
You Can Bank On It! [stream bank stabilization]	Oatis, David A.	1995. May/June 33(3):15.
Golf and the Larger Environment	Keyser, Jr., F. Ray	1995. May/June 33(3):19-21.
Contain It, Store It, Recycle It	Zontek, Stanley J.	1995. May/June 33(3):22-23.
The Greens Against The Greens	Fumento, Michael	1995. May/June 33(3):27-29.
Developing Environmental Guidelines for Canadian Golf Courses	Yamada, Teri	1995. Mar/Apr 33(2):8-9.
What Happens to Pesticides Applied to Golf Courses?	Kenna, Dr. Michael P.	1995. Jan/Feb 33(1):1-9.
The Fate of Pesticides and Fertilizers in a Turfgrass Environment	Yates, Dr. Marylynn V.	1995. Jan/Feb 33(1):10-12.
Potential Movement of Pesticides Following Application to Golf Courses	Smith, Dr. Al	1995. Jan/Feb 33(1):13-14.
Pesticide Mobility and Persistence in a High-Sand-Content Green	Snyder, Dr. G. H. & Dr. J. L. Cisar	1995. Jan/Feb 33(1):15-18.
Volatilization and Dislodgeable Residues Are Important Avenues of Pesticide Fate	Cooper, Dr. R. J., Dr. J. M. Clark & Dr. K. C. Murphy	1995. Jan/Feb 33(1):19-22.
Nitrogen and Phosphorus Fate When Applied to Turfgrass in Golf Course Fairway Condition	Starrett, Dr. S. K. & Dr. N. E. Christians	1995. Jan/Feb 33(1):23-25.
Pesticide Degradation Under Golf Course Fairway Conditions	Horst, Dr. G. L., Dr. P.J. Shea & Dr. N. Christians	1995. Jan/Feb 33(1):26-28.
Leaching of Nitrate from Sand Putting Greens	Brauen, Dr. Stanton E. & Dr. G. K. Stahnke	1995. Jan/Feb 33(1):29-32.
Potential Groundwater Contamination from Pesticides and Fertilizers Used on Golf Courses	Branham, Dr. Bruce, Dr. E. Miltner & Dr. P. Rieke	1995. Jan/Feb 33(1):33-37.
The Impact of Soil Type and Precipitation on Pesticide and Nutrient Leaching from Fairway Turf	Petrovic, Dr. Martin A.	1995. Jan/Feb 33(1):38-41.
Turf Benefits Paper Published	Anonymous	1994. Sept/Oct 32(5):16.
Beyond Appearance and Playability: Golf and the Environment	Kenna, Dr. Michael P.	1994. July/Aug 32(4):12-15.
USGA Responds to Heightened Environmental Awareness	Anonymous	1994. May/June 33(3):insert.
Squamish Valley — The Home to Birdies and Eagles	Banbury, David	1994. Mar/Apr 33(2):6-7.
Assessing Chemical Hazards on Golf Courses	Borgert, C. J., S. M. Roberts, R. D. Harbison, J. L. Cisar & G. H. Snyder	1994. Mar/Apr 33(2):11-14.
Let's All Be Responsible	Vermeulen, Paul	1994. Mar/Apr 33(2):17.
Attitude Adjustment	Skorulski, James E.	1994. Jan/Feb 32(1):23.
Catch the Drift [pesticide applications]	Manuel, George B.	1993. May/June 31(3):9.
Turfgrass and Golf Course Benefits — A Scientific Assessment	Beard, Dr. James B. & Dr. R. L. Green	1993. May/June 31(3):26-30.
Wash Rack Blues	Gilhuly, Larry	1993. Jan/Feb 31(1):9-10.
Nice Guys Sometimes Finish Last [superintendent responsibility]	Moore, James Francis	1993. Jan/Feb 31(1):19.
Barn or Turf Care Center: Which Do You Have?	Connolly, Jim	1992. Nov/Dec 30(6):1-5.

**4A. PESTICIDES (continued)**

Natural Enemies Reduce Pest Populations in Turf Applewood Golf Course: Reintroducing the Shortgrass Prairie and Links-Style Golf	Potter, Daniel A. Conard, Ron	1992. Nov/Dec 30(6):6-10. 1992. Nov/Dec 30(6):11-12.
The Ten Pitfalls of Golf Course Maintenance Golf Course Management Standards and Practices for a Fragile Environment	Brame, Robert A. Cadenelli, Stephen G.	1992. Sept/Oct 30(5):1-5. 1992. May/June 30(3):30-33.
Biological Control of Diseases on Golf Course Turf Using Computer Simulations to Predict the Fate and Environmental Impact of Applied Pesticides	Nelson, Dr. Eric B. Franke, Kevin J.	1992. Mar/Apr 30(2):11-14. 1992. Mar/Apr 30(2):17-21.

**4B. WATER**

Keeping An Eye Out Water Quality Monitoring at Queenstown Harbor Thirsty Turf	Dodson, Ron Shirk, Frank W. Dodson, Ron	1996. Sept/Oct 34(5):13-14. 1996. July/Aug 34(4):5-8. 1996. July/Aug 34(4):18-20.
Environmental Common Sense — A Sample “In-House” Audit The Old Westbury Code of Environmental Conduct The USGA’s Environmental Strategies: What We’ve Got and What We Need	Moore, James Francis Weber, Arthur P. Snow, James T.	1996. Jan/Feb 34(1):1-5. 1995. Sept/Oct 33(5):13-15. 1995. May/June 33(3):3-6.
Golf and the Larger Environment The Greens Against The Greens Bringing in the Hired Guns — How to Choose an Environmental Consultant Turn Off the Faucet!	Keyser, Jr., F. Ray Fumento, Michael Beall, Barbara B.	1995. May/June 33(3):19-21. 1995. May/June 33(3):27-29. 1995. Mar/Apr 33(2):13-15.
The Fate of Pesticides and Fertilizers in a Turfgrass Environment Potential Groundwater Contamination from Pesticides and Fertilizers Used on Golf Courses Transport of Runoff and Nutrients from Fairway Turfs	Gross, Patrick Yates, Dr. Marylynn V. Branham, Dr. Bruce, Dr. E. Miltner & Dr. P. Rieke Linde, Douglas T., Dr. T. L. Watschke, & J. A. Borger	1995. Mar/Apr 33(2):21. 1995. Jan/Feb 33(1):10-12. 1995. Jan/Feb 33(1):33-37. 1995. Jan/Feb 33(1):42-44.
Turf Benefits Paper Published Beyond Appearance and Playability: Golf and the Environment Maps Can Improve Your Environmental Planning Initiatives Using Effluent On Your Golf Course Restoration of Potash Pond Turfgrass and Golf Course Benefits — A Scientific Assessment	Anonymous Kenna, Dr. Michael P. Sadlon, Nancy P. Kopec, Dr. David, Bertrand, Scott Beard, Dr. James B. & Dr. R. L. Green	1994. Sept/Oct 32(5):16. 1994. July/Aug 32(4):12-15. 1993. Nov/Dec 31(6):19-20. 1993. July/Aug 31(4):9-12. 1993. July/Aug 31(4):19-21. 1993. May/June 31(3):26-30.
Wash Rack Blues Concern for Surface Runoff — More on Water Quality Sprinkler Head Testing Makes Dollars and Sense	Gilhuly, Larry Sadlon, Nancy P. Solomon, PE, Dr. Kenneth H.	1993. Jan/Feb 31(a):9-10 1992. Nov/Dec 30(6):19. 1992. July/Aug 30(4):7-9.
“Water Watch” Programs: Stream Water Quality Monitoring Golf Course Management Standards and Practices for a Fragile Environment Working Within the Quagmire of Wetland Regulation!	Sadlon, Nancy P. Cadenelli, Stephen G. Sadlon, Nancy P.	1992. July/Aug 30(4):19-20. 1992. May/June 30(3):30-33. 1992. Mar/Apr 30(2):21-23.

**4C. NUTRIENTS**

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Golf and the Larger Environment The Greens Against The Greens The Fate of Pesticides and Fertilizers in a Turfgrass Environment Nitrogen and Phosphorus Fate When Applied to Turfgrass in Golf Course Fairway Condition Leaching of Nitrate from Sand Putting Greens	Keyser, Jr., F. Ray Fumento, Michael Yates, Dr. Marylynn V. Starrett, Dr. S. K. & Dr. N. E. Christians Braun, Dr. Stanton E. & Dr. G. K. Stahnke	1995. May/June 33(3):19-21. 1995. May/June 33(3):27-29. 1995. Jan/Feb 33(1):10-12. 1995. Jan/Feb 33(1):23-25. 1995. Jan/Feb 33(1):29-32.
Potential Groundwater Contamination from Pesticides and Fertilizers Used on Golf Courses The Impact of Soil Type and Precipitation on Pesticide and Nutrient Leaching from Fairway Turf Transport of Runoff and Nutrients from Fairway Turfs	Branham, Dr. Bruce, Dr. E. Miltner & Dr. P. Rieke Petrovic, Dr. Martin A. Linde, Douglas T., Dr. T. L. Watschke, & J. A. Borger	1995. Jan/Feb 33(1):33-37. 1995. Jan/Feb 33(1):38-41. 1995. Jan/Feb 33(1):42-44.
The Effect of Salinity on Nitrate Leaching from Turfgrass	Bowman, Dr. Daniel C., Dr. D. A. Devitt & W. M. Miller	1995. Jan/Feb 33(1):45-49.
Turf Benefits Paper Published Beyond Appearance and Playability: Golf and the Environment	Anonymous Kenna, Dr. Michael P.	1994. Sept/Oct 32(5):16. 1994. July/Aug 32(4):12-15.

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<b>4C. NUTRIENTS (continued)</b>		
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Wash Rack Blues	Gilhuly, Larry	1993. Jan/Feb 31(1):9-10.
Back to the Basics for Golf and the Environment	Manuel, George B.	1992. Mar/Apr 30(2):14-16.
<b>4D. WILDLIFE</b>		
The Bird Communities of Prairie Dunes Country Club and Sand Hills State Park	Terman, Max R., Ph.D.	1996. Nov/Dec 34(6):10-14.
Pine Needles Now a Safe Harbor	Anonymous	1996. July/Aug 34(4):22-23.
Managing Wildlife and Habitat	Dodson, Ron	1996. Mar/Apr 34(2):17-18.
Canada Geese — Definitely No “Birdie”	Henze, Laura E.	1995. Sept/Oct 33(5):5-7.
Pinehurst Provides Habitat for Cavity-Nesting Species	Lavis, Scott A.	1995. Sept/Oct 33(5):11-12.
The Red-Cockaded Woodpecker: An Endangered Species in Golf Country	Carter III, Dr. R. D. & B. G. Kocher	1995. July/Aug 33(4):8-9.
Recycling for Habitat	Foy, John H.	1995. May/June 33(3):7.
“For the Birds”	Happ, Keith A.	1995. May/June 33(3):16.
Blowing Your Top! [tree care for wildlife]	Gilhuly, Larry	1995. May/June 33(3):30-31.
The Trash Bird	Dodson, Ronald G.	1995. Mar/Apr 33(2):19.
But Can You Prove It? [wildlife inventories]	Dodson, Ronald G.	1994. Sept/Oct 32(5):15.
You Think You Have Problems?	Anonymous	1994. Sept/Oct 32(5):16.
Helping the Osprey on the Road to Recovery	Sadlon, Nancy P.	1994. July/Aug 32(4):16-17.
Squamish Valley — The Home to Birdies and Eagles	Banbury, David	1994. Mar/Apr 33(2):6-7.
Grass Carp: Are They Really the Perfect Solution?	Sadlon, Nancy P.	1994. Mar/Apr 33(2):15-16.
Butterflies	Sadlon, Nancy P.	1994. Jan/Feb 32(1):20-22.
Developments in Canada Goose Repellents	Cummings, John	1993. Sept/Oct 31(5):6-7.
The Bird Community Found on British Columbia Golf Courses	Moul, Ian E. & J. E. Elliott	1993. July/Aug 31(4):13-15.
Simple Fences Minimize Goose Traffic	Latham, James M.	1993. May/June 31(3):18.
Migration: Where Have All The Birds Gone?	Sadlon, Nancy P.	1993. Jan/Feb 31(1):18.
Landscaping the Golf Course for Wildlife	Dodson, Ron	1992. Sept/Oct 30(5):20.
Encouraging Wildlife at The Honors Course	Stone, David	1992. May/June 30(3):15-17.
Tree Snags — A Tree Even an Agronomist Can Love!	Sadlon, Nancy P.	1992. May/June 30(3):24-25.
<b>4E. MISCELLANEOUS</b>		
Aggies in Action [resource inventory]	White, Dr. Richard H.	1996. Sept/Oct 34(5):5-7.
Keeping An Eye Out	Dodson, Ron	1996. Sept/Oct 34(5):13-14.
Wildflowers on Your Course?	Krouse, John M.	1996. Mar/Apr 34(2):8-11.
Involving the Public and Your Members	Dodson, Ronald G.	1996. Jan/Feb 34(1):16-17.
Environmental Common Sense — A Sample “In-House” Audit	Moore, James Francis	1996. Jan/Feb 34(1):1-5.
Creating an Environmental Road Map	Dodson, Ronald	1995. Nov/Dec 33(6):15-16.
Inventorizing Your Resources	Dodson, Ronald G.	1995. Sept/Oct 33(5):19-20.
“Ego-System” Management	Dodson, Ronald G.	1995. July/Aug 33(4):15.
The USGA’s Environmental Strategies: What We’ve Got and What We Need	Snow, James T.	1995. May/June 33(3):3-6.
A Summer Assignment [resource inventory]	Skorulski, James E.	1995. May/June 33(3):23-24.
Ozaukee Country Club’s Audubon Stepping Stone to a Better Environment	Bailey, Phil	1994. Sept/Oct 32(5):12-14.
Beyond Appearance and Playability: Golf and the Environment	Kenna, Dr. Michael P.	1994. July/Aug 32(4):12-15.
A New Attitude: Audubon, Our Golf Course, and the Community	Leuzinger, Peter V.	1994. May/June 33(3):2-5.
A Method of Recycling: From Clippings to Compost	Brame, R. A.	1994. May/June 33(3):24.
Fire as a Landscape Management Tool	Weston, John	1994. Jan/Feb 32(1):14-16.
How “Green” is Your Course? [environmental responsibility]	Snow, James T.	1993. Nov/Dec 31(6):21.
The Environment: Where Environment, Nature, and the Game Can Coexist	Jones, Jr., Robert Trent	1993. May/June 31(3):2-5.
Five Golf Courses Cited as Certified Audubon Cooperative Sanctuaries	Anonymous	1993. May/June 31(3):37.
Applewood Golf Course: Reintroducing the Shortgrass Prairie and Links-Style Golf	Conard, Ron	1992. Nov/Dec 30(6):11-12.
<b>5. FAIRWAYS</b>		
Choosing The Best Approach	Oatis, David A.	1996. Sept/Oct 34(5):8-10.
Drawing the Line on Winter Play	Moore, James F.	1996. May/June 34(3):30.
Fairway Aerification Around the Clock	Weaver, Bob	1995. July/Aug 33(4):13-14.
Nitrogen and Phosphorus Fate When Applied to Turfgrass in Golf Course Fairway Condition	Starrett, Dr. S. K. & Dr. N. E. Christians	1995. Jan/Feb 33(1):23-25.
Pesticide Degradation Under Golf Course Fairway Conditions	Horst, G. L., P.J. Shea & N. Christians	1995. Jan/Feb 33(1):26-28.

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**5. FAIRWAYS (continued)**


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The Impact of Soil Type and Precipitation on Pesticide and Nutrient Leaching from Fairway Turf  
 Transport of Runoff and Nutrients from Fairway Turfs  
 A Method of Recycling: From Clippings to Compost  
 "Working" Bermudagrass Fairways  
 A Case for Bluegrass Fairways

Petrovic, Dr. Martin A. 1995. Jan/Feb 33(1):38-41.  
 Linde, Douglas T., 1995. Jan/Feb 33(1):42-44.  
 Brame, R. A. 1994. May/June 33(3):24.  
 Foy, John H. 1993. Nov/Dec 31(6):11-13.  
 Latham, James M. 1993. Jan/Feb 31(1):1-5.

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**6. FERTILIZATION**


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Water Quality Monitoring at Queenstown Harbor  
 The Magic of Sulfur  
 A Practical Approach to Putting Green Fertilization  
 Acid — To Inject or Not to Inject  
 Maintenance on a Shoestring  
 Tissue Testing: Questions and Answers  
 Golf Course Construction: Grow-In Philosophies  
 Back to the Basics for Golf and the Environment

Shirk, Frank W. 1996. July/Aug 34(4):5-8.  
 O'Brien, Patrick M. 1996. May/June 34(3):6-7.  
 Brame, R. A. 1996. Mar/Apr 34(2):14-16.  
 Howard, Ph.D., Harold F. 1996. Jan/Feb 34(1):12-14.  
 O'Brien, Patrick M. 1995. July/Aug 33(4):1-4.  
 Happ, Keith 1994. July/Aug 32(4):9-11.  
 Buchen, Terry 1993. Sept/Oct 31(5):11-14.  
 Manuel, George B. 1992. Mar/Apr 30(2):14-16.

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**7. GOLF COURSE MANAGEMENT AND BUDGETS**


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**7A. EQUIPMENT AND BUILDINGS**


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Taking Spikeless Shoes Public  
 Keep Your Edge  
 Don't Be Shortsighted  
 The Ups and Downs of Rolling Putting Greens  
 Water Quality Monitoring at Queenstown Harbor  
 Optimizing the Turfgrass Canopy Environment with Fans  
 A Float Above The Rest  
 Shallow Aeration: Deeper Is Not Always Better  
 Preventative Maintenance at a Glance  
 Environmental Common Sense — A Sample "In-House" Audit  
 Aw Nuts! And Bolts, Too [inventory]  
 Maintenance on a Shoestring  
 Dry-Cleaning [equipment care]  
 Contain It, Store It, Recycle It  
 Cool, Clear Water (Without Electricity) No Problem!  
 Mr. Wizard Visits the Golf Course [soils, water quality]  
 Go Wireless [communication equipment]  
 Blockbuster Aerification  
 Getting the Word Out [communication techniques]  
 Have an "Ice" Day  
 Low-Cost Comfort at Deadwood [restroom facilities]  
 Seed Storage: Protect Your Investment  
 Every Picture Tells a Story  
 Mobile Office Trailers as Interim Offices  
 Equipment Replacement: Choosing a Path of "Leased" Resistance  
 What Do Club Managers Need to Know About  
 GolfCourse Management?  
 Tee Construction: Use of the Laser Grader  
 From Broken Shaft to Soil Probe  
 Catch the Drift [pesticide applications]

Meredith, Sam 1996. Nov/Dec 34(6):6-7.  
 Happ, Keith 1996. Nov/Dec 34(6):8-9.  
 Happ, Keith 1996. Nov/Dec 34(6):17.  
 Hartwiger, Chris 1996. July/Aug 34(4):1-4.  
 Shirk, Frank W. 1996. July/Aug 34(4):5-8.  
 O'Brien, Patrick M. 1996. July/Aug 34(4):9-12.  
 Skorulski, Jim 1996. May/June 34(3):8.  
 Zontek, Stanley J. 1996. May/June 34(3):27-28.  
 Happ, Keith 1996. May/June 34(3):18.  
 Moore, James Francis 1996. Jan/Feb 34(1):1-5.  
 Huck, Mike 1995. Nov/Dec 33(6):9-11.  
 O'Brien, Patrick M. 1995. July/Aug 33(4):1-4.  
 Vermeulen, Paul 1995. May/June 33(3):17.  
 Zontek, Stanley J. 1995. May/June 33(3):22-23.  
 Moore, James F. 1995. May/June 33(3):32-33.  
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 Gast, Chuck 1994. May/June 33(3):8-9.  
 O'Brien, Patrick M. 1994. May/June 33(3):14.  
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<b>7A. EQUIPMENT AND BUILDINGS (continued)</b>		
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Barn or Turf Care Center: Which Do You Have?	Connolly, Jim	1992. Nov/Dec 30(6):1-5.
The Golf Course Mechanic — A Changing Image	Vavrek, Robert C.	1992. Sept/Oct 30(5):18-19.
Roundup at the Circle Tree [weed control equipment]	Manuel, George B.	1992. May/June 30(3):20.
Fire in the Hole [tree program]	Moore, James	1992. May/June 30(3):25-26.
Are Your Greens Running a Fever?	Vermeulen, Paul H.	1992. May/June 30(3):27.
Getting the Seed Down Right	Foy, John H.	1992. May/June 30(3):34-35.
Measuring Air Movement for Better Grass	Zontek, Stanley J.	1992. May/June 30(3):38-39.
Aeration: Needed More Today Than Ever Before	Vavrek, Jr., Robert C.	1992. Mar/Apr 30(2):1-5.
Cultivation Has Changed	Carrow, Dr. Robert N.	1992. Jan/Feb 30(1):5-9.

<b>7B. LABOR</b>		
Don't Be Shortsighted	Happ, Keith	1996. Nov/Dec 34(6):17.
Aggies in Action [resource inventory]	White, Dr. Richard H.	1996. Sept/Oct 34(5):5-7.
Preventative Maintenance at a Glance	Happ, Keith	1996. May/June 34(3):18.
The Need for Teamwork	Moore, James F.	1995. Nov/Dec 33(6):21.
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The Media and the Game of Golf	Hearn, Don	1994. Jan/Feb 32(1):6-9.
The Journey Continues — More Maintenance Pitfalls	Brame, Robert A.	1993. Nov/Dec 31(6):1-6.
'O Holey Night' [aerification]	Connolly, James E.	1993. May/June 31(3):32-33.
The Golf Course Mechanic — A Changing Image	Vavrek, Robert C.	1992. Sept/Oct 30(5):18-19.
Employment Contracts: The Missing Link!	Brame, Robert A.	1992. Sept/Oct 30(5):21.

<b>7C. BUDGET</b>		
Maintenance on a Shoestring	O'Brien, Patrick M.	1995. July/Aug 33(4):1-4.
The Economic and Operating Impacts of Golf Courses	Norton, Richard L.	1994. May/June 33(3):12-13.
Putting Your Cards on the Table [selling budget items]	Gilhuly, Larry W.	1993. May/June 31(3):6.

<b>7D. COMPUTER</b>		
USGA Enters the Internet Age	Anonymous	1996. May/June 34(3):32.
Using Computer Simulations to Predict the Fate and Environmental Impact of Applied Pesticides	Franke, Kevin J.	1992. Mar/Apr 30(2):17-21.

<b>7E. MAINTENANCE PHILOSOPHY</b>		
Communication and Golf Course Maintenance	Brame, Bob	1996. Nov/Dec 34(6):1-5.
Taking Spikeless Shoes Public	Meredith, Sam	1996. Nov/Dec 34(6):6-7.
Integrated Pest Management for Land Managers	Dodson, Ron	1996. Nov/Dec 34(6):15-16.
Choosing The Best Approach	Oatis, David A.	1996. Sept/Oct 34(5):8-10.
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Preventative Maintenance at a Glance	Happ, Keith	1996. May/June 34(3):18.
The USGA: The First Hundred Years, The Next Hundred Years	Fay, David B.	1996. May/June 34(3):21-26.
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Creating an Environmental Road Map	Dodson, Ronald	1995. Nov/Dec 33(6):17-18.
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Composting: Turn Your Eyesore Into Black Gold	Senseman, Robert Y.	1995. May/June 33(3):8.
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The Trash Bird	Dodson, Ronald G.	1995. Mar/Apr 33(2):19.
Turn Off the Faucet!	Gross, Patrick	1995. Mar/Apr 33(2):21.
A Low-Impact Golf Course? Probably Not!	Happ, Keith A.	1995. Jan/Feb 33(1):52.
The Religion of Golf	Gilhuly, Larry	1994. July/Aug 32(4):17.
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Strategies for Successful Long-Term Maintenance of Golf Courses	Crenshaw, Ben	1994. May/June 33(3):26-28.
Let's All Be Responsible	Vermeulen, Paul	1994. Mar/Apr 33(2):17.
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The Journey Continues — More Maintenance Pitfalls	Brame, Robert A.	1993. Nov/Dec 31(6):1-6.
How "Green" is Your Course?	Snow, James T.	1993. Nov/Dec(31)6:21.
Evolving Roles in Golf	Roberts, William R.	1993. May/June 31(3):10-14.
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The Ten Pitfalls of Golf Course Maintenance	Brame, Robert A.	1992. Sept/Oct (30)5:1-5.
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Staying on Course [superintendent tenure]	Foy, John H.	1996. Jan/Feb 34(1):19.
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**8. GOLF GREENS****8A. CONSTRUCTION**

Avoiding the Hazards of Golf Course Renovation	Manuel, George B.	1995. July/Aug 33(4):5-7.
What Can You Do If Your Golf Course Has Gas? [landfill golf courses]	Gross, Patrick J.	1994. July/Aug 32(4):1-4.
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Water Retention in Golf Greens: Sub-Root Zone Layering Effects	Taylor, Don, S. Nelson & F. Williams	1994. Jan/Feb 32(1):17-19.
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To Seed or Not to Seed — Layering Effects	Blomquist, Dave	1993. Nov/Dec 31(6):14-15.
Golf Course Construction: Grow-In Philosophies	Buchen, Terry	1993. Sept/Oct 31(5):11-14.
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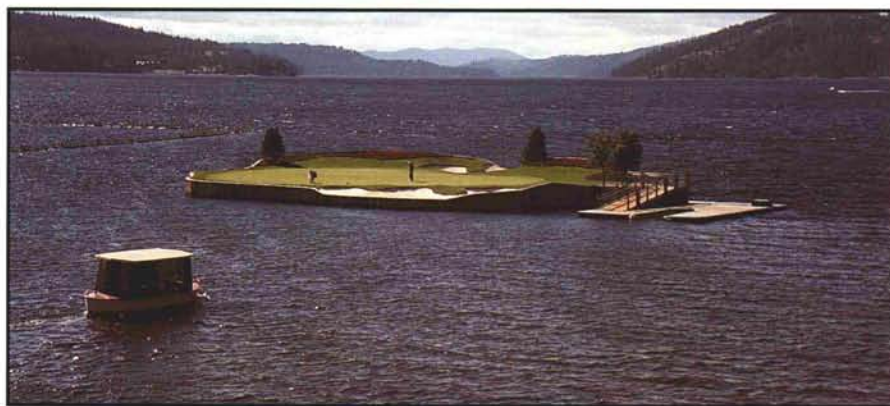
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Why We Need Laboratory Standards For Testing Root Zone Mixes	Hummel, Jr., Dr. Norman W.	1993. Mar/Apr 31(2):22.
Laboratory Methods for Evaluation of Putting Green	Hummel, Jr., Dr. Norman W.	1993. Mar/Apr 31(2):23-33.
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USGA Greens — On a Limited Budget	McLean, Stan & Pete	1993. Jan/Feb 31(1):15-17.
Why Not Pure Sand Greens?	Snow, James T.	1992. July/Aug 30(4):21.
News and Views on the USGA Specifications	Hummel Jr., Dr. Norman H.	1992. May/June 30(3):28-29.
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*Coeur d'Alene Golf Club, Coeur d'Alene, Idaho.*

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TW-72: A Potential New Bermudagrass	Hanna, Dr. Wayne W.	1996. Sept/Oct 34(5):11-12.
The Ups and Downs of Rolling Putting Greens	Hartwiger, Chris	1996. July/Aug 34(4):1-4.
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Hand Watering Greens	Gross, Pat	1996. July/Aug 34(4):17.
Sensible Choices	Vermeulen, Paul	1996. July/Aug 34(4):24.
Back to Basics	Latham, James M.	1996. May/June 34(3):2-5.
Covering Your Tracks	Vermeulen, Paul	1996. May/June 34(3):15-17.
Shallow Aeration: Deeper Is Not Always Better	Zontek, Stanley J.	1996. May/June 34(3):27-28.
Suck-cess [drainage]	Gross, Patrick J.	1996. May/June 34(3):29.
Control Those Shrinking Greens	Happ, Keith	1996. Mar/Apr 34(2):12-13.
A Practical Approach to Putting Green Fertilization	Brame, R. A.	1996. Mar/Apr 34(2):14-16.
S.P.E.E.D. — Consider What's Right For Your Course	Vermeulen, Paul	1995. Nov/Dec 33(6):1-5.
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No Holes: "Play (Practice) Away, Please"	Brame, Robert	1995. May/June 33(3):18.
How Dry I Am	Vavrek, Jr., Robert	1995. May/June 33(3):25-26.
Surround Your Greens With Quality [green surrounds]	Gilhuly, Larry	1995. Mar/Apr 33(2):10-12.
Herbicide-Resistant Creeping Bentgrass	Lee, Lisa, C.Hartman, C. Laramore, N. Tumer & P. Day	1995. Mar/Apr 33(2):16-18.
Turn Off the Faucet!	Gross, Patrick	1995. Mar/Apr 33(2):21.
Potential Movement of Pesticides Following Application to Golf Courses	Smith, Dr. Al	1995. Jan/Feb 33(1):13-14.
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For Heaven's Sake, Get Some Insurance	Oatis, David A.	1994. Sept/Oct 32(5):17.
Wet Greens — "Let's Try This First"	Carpenter, Les & D. A. Oatis	1994. July/Aug 32(4):5-8.
Armchair Architect	Gross, Patrick J.	1994. May/June 33(3):9-10.
Covering Up For Winter	Skorulski, Jim	1994. May/June 33(3):16-17.
Have an "Ice" Day	Vavrek, Jr., Robert C.	1994. May/June 33(3):17-18.

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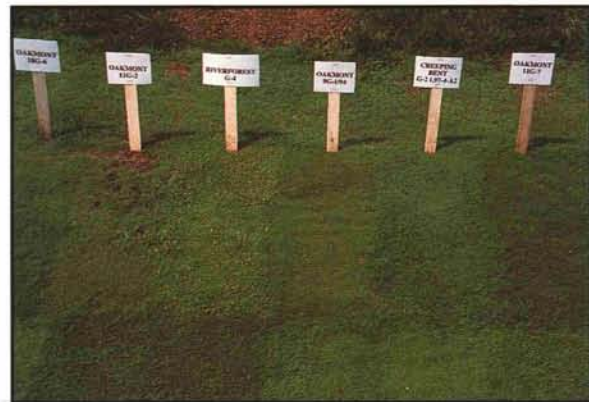
Overseeding: It Is A Challenge!	Gast, Chuck	1993. Sept/Oct 31(5):1-5.
From Broken Shaft to Soil Probe	Brame, Robert A.	1993. May/June 31(3):7-8.
Ball Marks to Bentgrass	Oatis, David A.	1993. May/June 31(3):25.
Algae Busters	Foy, John H.	1993. May/June 31(3):31.
'O Holey Night' [aerification]	Connolly, James E.	1993. May/June 31(3):32-33.
Filling Aerator Holes Completely The First Time	Zontek, Stanley J.	1993. May/June 31(3):34-35.
Winter Covers: Are They For You?	Skorulski, Jim	1992. Nov/Dec 30(6):16-18.
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A Practical Guide to Analyzing the Soil Profile of the Green	Mascaro, Tom	1992. July/Aug 30(4):13-16.
"Shake, Rattle, and Roll!"	Gilhuly, Larry	1992. May/June 30(3):10-11.
Let Mother Fix It! [maintenance philosophy]	Oatis, David A.	1992. May/June 30(3):18.
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Excelsior Green Covers	Vavrek, Jr., Robert C.	1992. May/June 30(3):39-41.
Drainage Improvement — Remedy Without Reconstruction in New Zealand	McAuliffe, Keith W.	1992. Mar/Apr 30(2):6-10.
Back to the Basics for Golf and the Environment	Manuel, George B.	1992. Mar/Apr 30(2):14-16.

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A Successful Topdressing Program Requires Consistency, Commitment, and Communication	Vavrek, Jr., Robert C.	1995. Sept/Oct 33(5):8-10.
Managing Soil Water	Zontek, Stanley J.	1994. Sept/Oct 32(5):1-4.
Aeration: Needed More Today Than Ever Before	Vavrek, Jr., Robert C.	1992. Mar/Apr 30(2):1-5.

**8D. STIMPMETER AND GREEN SPEED**

The Metallic Mashers of Monocots — Golf Spikes!	Gilhuly, Larry	1996. Sept/Oct 34(5):1-4.
The Ups and Downs of Rolling Putting Greens	Hartwiger, Chris	1996. July/Aug 34(4):1-4.
The USGA: The First Hundred Years, The Next Hundred Years	Fay, David B.	1996. May/June 34(3):21-26.
S.P.E.E.D. — Consider What's Right For Your Course	Vermeulen, Paul	1995. Nov/Dec 33(6):1-5.
"You've Gotta Know Your Limits"	Oatis, David A.	1995. Sept/Oct 33(5):21.
Stimpmeter® Available Through USGA	Anonymous	1995. Jan/Feb 33(1):50.
Television Golf and the Golf Course Superintendent	Pate, Jerry	1993. May/June 31(3):19-21.
The Ten Pitfalls of Golf Course Maintenance	Brame, Robert A.	1992. Sept/Oct 30(5):1-5.
"Shake, Rattle, and Roll!"	Gilhuly, Larry	1992. May/June 30(3):10-11.

**9. GRASSES****9A. WARM-SEASON GRASSES**

TW-72: A Potential New Bermudagrass	Hanna, Dr. Wayne W.	1996. Sept/Oct 34(5):11-12.
Sensible Choices	Vermeulen, Paul	1996. July/Aug 34(4):24.
The Environmentally Sound Turfgrass of the Future [seashore paspalum]	Duncan, Dr. Ronald R.	1996. Jan/Feb 34(1):9-11.
FLoraTeX® — A Low-Maintenance Bermudagrass for the South	Dudeck, Dr. Al E.	1995. Sept/Oct 33(5):16-18.
The Perfect Grass	O'Brien, Patrick M.	1995. May/June 33(3):9.
"Working" Bermudagrass Fairways	Foy, John H.	1993. Nov/Dec 31(6):11-13.
Overseeding: It Is A Challenge!	Gast, Chuck	1993. Sept/Oct 31(5):1-5.
Out of Africa — a New Look at "African" Bermudagrass	Taliaferro, Dr. Charles M.	1992. July/Aug 30(4):10-12.
The Best Choice May Not Always Be Your Favorite [turfgrass species selection]	Vermeulen, Paul H.	1992. Jan/Feb 30(1):1-5.
Introducing an Improved Native: '609' Buffalograss	Bauer, Barbara	1992. Jan/Feb 30(1):20.

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Sensible Choices	Vermeulen, Paul	1996. July/Aug 34(4):24.
Herbicide-Resistant Creeping Bentgrass	Lee, Lisa, C. Hartman, C. Laramore, N. Tumer & P. Day	1995. Mar/Apr 33(2):16-18.
Fire as a Landscape Management Tool	Weston, John	1994. Jan/Feb 32(1):14-16.
To Seed or Not to Seed	Blomquist, Dave	1993. Nov/Dec 31(6):14-15.
Bentgrass Breeding — Texas Style	Engelke, Dr. Milt	1993. Nov/Dec 31(6):16-18.
Overseeding: It Is A Challenge!	Gast, Chuck	1993. Sept/Oct 31(5):1-5.
Survival of the Fittest [bentgrass nurseries]	O'Brien, Patrick M.	1993. May/June 31(3):22-23.
A Case for Bluegrass Fairways	Latham, James M.	1993. Jan/Feb 31(1):1-5.
"To Pre or Not to Pre" — Summer Annual Bluegrass	Rossi, Dr. Frank S.	1992. Sept/Oct 30(5):15-17.
Weed Control Strategies		
The Best Choice May Not Always Be Your Favorite	Vermeulen, Paul H.	1992. Jan/Feb 30(1):1-5.
[turfgrass species selection]		

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Brian Maloy Joins the USGA Green Section	Anonymous	1996. Sept/Oct 34(5):15.
Vermeulen to Head Up Mid-Continent Region	Anonymous	1996. Sept/Oct 34(5):15.
James Moore Takes the Lead on New USGA Program	Anonymous	1996. Sept/Oct 34(5):15.
Laboratory Accreditation Program Announced for	Anonymous	1996. July/Aug (34)4:21-22.
Putting Green Materials		
Environmental Principles Adopted	Anonymous	1996. July/Aug 34(4):23.
Robert M. Williams — 1996 Green Section Award Recipient	Anonymous	1996. May/June 34(3):1.
Back to Basics	Latham, James M.	1996. May/June 34(3):2-5.
The USGA: The First Hundred Years, The Next Hundred Years	Fay, David B.	1996. May/June 34(3):21-26.
A View From the Rough	Anonymous	1996. May/June 34(3):31.
USGA Enters the Internet Age	Anonymous	1996. May/June 34(3):32.
Matt Nelson Replaces Bob Senseman in the Northeast	Anonymous	1996. Mar/Apr 34(2):19.
USGA Receives Award	Anonymous	1996. Mar/Apr 34(2):19.
In Memoriam: Al Radko	Anonymous	1996. Jan/Feb 34(1):18.
TAS Still Best Buy	Anonymous	1996. Jan/Feb 34(1):18-19.
USGA Green Section Education Conference [1996 program]	Anonymous	1996. Jan/Feb 34(1):20.
Information Sources	Anonymous	1995. Nov/Dec 33(6):19-20.
Wanted: Groups or Individuals [green section publications]	Anonymous	1995. Nov/Dec 33(6):20.
Centennial Time Capsule	Anonymous	1995. Nov/Dec 33(6):20.
Hartwiger Appointed to Staff	Anonymous	1995. July/Aug 33(4):16.
The Spirit of St. Andrews	Anonymous	1995. July/Aug 33(4):16.
David Stone — 1995 Green Section Award Recipient	Anonymous	1995. May/June 33(3):1.
The USGA's Environmental Strategies:	Snow, James T.	1995. May/June 33(3):3-6.
What We've Got and What We Need		
75 Years of the USGA Green Section	Anonymous	1995. Mar/Apr 33(2):20.
Parke Named Manager of Communications	Anonymous	1995. Mar/Apr 33(2):20.
Huck Joins Green Section Staff	Anonymous	1995. Mar/Apr 33(2):20.
Several Green Section Regions are Reorganized for 1995	Anonymous	1995. Jan/Feb 33(1):50.
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Jim and Lois Latham Retire to Texas	Anonymous	1995. Jan/Feb 33(1):51.
Vermeulen Relocates to a Modified Mid-Continent Region	Anonymous	1995. Jan/Feb 33(1):51.
Brame Named Director of North-Central Region	Anonymous	1995. Jan/Feb 33(1):51.
George Manuel Leaves Green Section Staff	Anonymous	1995. Jan/Feb 33(1):51.
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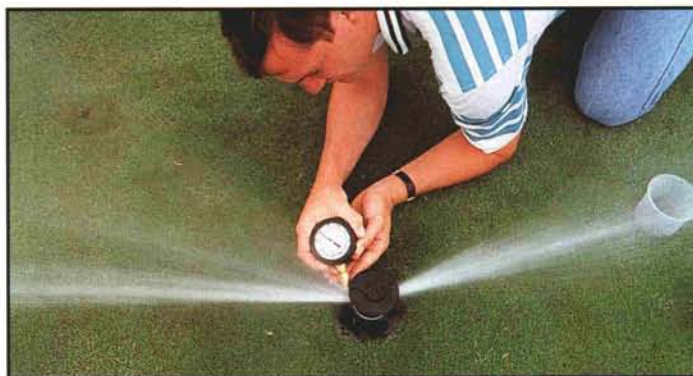
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**10. GREEN SECTION INFORMATION AND AWARDS (continued)**

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Additional Research Funding Approved	Anonymous	1994. Sept/Oct 32(5):16.
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Turf Advisory Service Fee Changes for 1995	Anonymous	1994. Sept/Oct 32(5):16-17.
In Memoriam [Dr. Kenyon T. Payne]	Anonymous	1994. Sept/Oct 32(5):17.
Kenyon T. Payne — 1994 Green Section Award Recipient	Anonymous	1994. May/June 33(3):1.
Green Section Staff Changes [J. Skorulski, R. Y. Senseman]	Anonymous	1994. May/June 33(3):32.
USGA Responds to Heightened Environmental Awareness	Anonymous	1994. May/June 33(3):33.
Thomas W. Chisholm Named Green Section Chairman	Anonymous	1994. Mar/Apr 33(2):16.
Dr. Kimberly S. Erusha Named Director of Education	Anonymous	1994. Mar/Apr 33(2):16-17.
New Book on Golf Course Irrigation	Anonymous	1994. Mar/Apr 33(2):17.
In Memoriam — Howard E. Kaerwer	Anonymous	1994. Jan/Feb 32(1):22.
GCSAA Turfgrass Research Donation	Anonymous	1993. Sept/Oct 31(5):20.
Fall News Notes: <i>Landscape Restoration Handbook</i>	Anonymous	1993. Sept/Oct 31(5):20.
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TAS Celebrates 40 Years of Service	Anonymous	1993. May/June 31(3):36-37.
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Keith Happ Joins Green Section Staff	Anonymous	1993. May/June 31(3):37.
Five Golf Courses Cited as Certified Audubon Cooperative Sanctuaries	Anonymous	1993. May/June 31(3):37.
Ralph E. Engel — 1993 USGA Green Section Award Recipient	Anonymous	1993. May/June 31(3):1.
C. Richard Skogley Receives USGA Green Section Award for 1992	Anonymous	1992. May/June 30(3):1.
Issues in Golf in the 1990s	Bloch, Stuart F.	1992. May/June 30(3):21-23.

**11. IRRIGATION**



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The Magic of Sulfur	O'Brien, Patrick M.	1996. May/June 34(3):6-7.
Having Your Morning Coffee Without Donuts	Huck, Mike	1996. May/June 34(3):9-10.
"For the Birds"	Happ, Keith A.	1995. May/June 33(3):16.
How Dry I Am	Vavrek, Jr., Robert	1995. May/June 33(3):25-26.
Managing Soil Water	Zontek, Stanley J.	1994. Sept/Oct 32(5):1-4.
What Can You Do If Your Golf Course Has Gas [landfill golf courses]	Gross, Patrick J.	1994. July/Aug 32(4):1-4.
Rain Making	Vermeulen, Paul	1994. Mar/Apr 33(2):8-10.
New Book on Golf Course Irrigation	Anonymous	1994. Mar/Apr 33(2):17.
Maps Can Improve Your Environmental Planning Initiatives	Sadlon, Nancy P.	1993. Nov/Dec 31(6):19-20.
Golf Course Construction: Grow-In Philosophies	Buchen, Terry	1993. Sept/Oct 31(5):11-14.
Does Construction Relate to Maintenance Costs: Don't Underestimate Irrigation, Drainage, and Soil Systems	Kroeger, Ricky J.	1993. Sept/Oct 31(5):15-17.
A Quality Control Checklist for Successful Greens Reconstruction	Moore, James Francis	1993. July/Aug 31(4):1-5.
Using Effluent On Your Golf Course	Kopec, Dr. David,	1993. July/Aug 31(4):9-12.
Biting the Bullet: Greens Complex Reconstruction at the Country Club of Virginia	Hess, Alan D.	1993. July/Aug 31(4):16-18.
From Broken Shaft to Soil Probe	Brame, Robert A.	1993. May/June 31(3):7-8.
Applewood Golf Course: Reintroducing the Shortgrass Prairie and Links-Style Golf	Conard, Ron	1992. Nov/Dec 30(6):11-12.
The Ten Pitfalls of Golf Course Maintenance	Brame, Robert A.	1992. Sept/Oct 30(5):1-5.
Planning for Irrigation Improvements	Farrier, Dan	1992. Sept/Oct 30(5):11-14.
Sprinkler Head Testing Makes Dollars and Sense	Solomon, PE, Dr. Kenneth H.	1992. July/Aug 30(4):7-9.

Gross, Pat	1996. July/Aug 34(4):17.
O'Brien, Patrick M.	1996. May/June 34(3):6-7.
Huck, Mike	1996. May/June 34(3):9-10.
Happ, Keith A.	1995. May/June 33(3):16.
Vavrek, Jr., Robert	1995. May/June 33(3):25-26.
Zontek, Stanley J.	1994. Sept/Oct 32(5):1-4.
Gross, Patrick J.	1994. July/Aug 32(4):1-4.
Vermeulen, Paul	1994. Mar/Apr 33(2):8-10.
Anonymous	1994. Mar/Apr 33(2):17.
Sadlon, Nancy P.	1993. Nov/Dec 31(6):19-20.
Buchen, Terry	1993. Sept/Oct 31(5):11-14.
Kroeger, Ricky J.	1993. Sept/Oct 31(5):15-17.
Moore, James Francis	1993. July/Aug 31(4):1-5.
Kopec, Dr. David,	1993. July/Aug 31(4):9-12.
Hess, Alan D.	1993. July/Aug 31(4):16-18.
Brame, Robert A.	1993. May/June 31(3):7-8.
Conard, Ron	1992. Nov/Dec 30(6):11-12.
Brame, Robert A.	1992. Sept/Oct 30(5):1-5.
Farrier, Dan	1992. Sept/Oct 30(5):11-14.
Solomon, PE, Dr. Kenneth H.	1992. July/Aug 30(4):7-9.

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**12. PEST CONTROL**


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**12A. DISEASE**


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|---|--|---|
| Physiological Management of <i>Bipolaris sorokiniana</i><br>Leaf Spot Symptom Expression by Kentucky Bluegrass<br>Back to Basics              | Hodges, Dr. Clinton F.   | 1996. July/Aug 34(4):13-16.   |
| Golf Course Construction: Grow-In Philosophies<br>Ice and Snow [winter disease control]<br>Biological Control of Diseases on Golf Course Turf | Latham, James M.<br>Buchen, Terry<br>Moraghan, Tim P.<br>Nelson, Dr. Eric B. | 1996. May/June 34(3):2-5.<br>1993. Sept/Oct 31(5):11-14.<br>1992. May/June 30(3):36-37.<br>1992. Mar/Apr 30(2):11-14. |

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**12B. INSECTS AND NEMATODES**


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| Back to Basics<br>Black Cutworms: Where Are They Coming From?<br>Natural Enemies Reduce Pest Populations in Turf | Latham, James M.<br>Williamson, R. Chris<br>& D. J. Shetlar<br>Potter, Daniel A. | 1996. May/June 34(3):2-5.<br>1994. Sept/Oct 32(5):5-7.<br>1992. Nov/Dec 30(6):6-10. |
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**12C. WEEDS**


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| Fire as a Landscape Management Tool<br>Algae Busters<br>"To Pre or Not to Pre" — Summer Annual Bluegrass<br>Weed Control Strategies<br>Post-Emerge Crabgrass and Goosegrass Control:<br>Roundup at the Circle Tree [weed control equipment] | Weston, John<br>Foy, John H.<br>Rossi, Dr. Frank S.<br>Zontek, Stanley J.<br>Manuel, George B. | 1994. Jan/Feb 32(1):14-16.<br>1993. May/June 31(3):31.<br>1992. Sept/Oct 30(5):15-17.<br>1992. July/Aug 30(4):17-18.<br>1992. May/June 30(3):20. |
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**12D. INTEGRATED, ALTERNATIVE, AND OTHER**


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|---|--|--|
| Back to Basics<br>Mycorrhizal Fungi Benefit Putting Greens<br>Canada Geese — Definitely No "Birdie"<br>The Old Westbury Code of Environmental Conduct<br>IPM, Monitoring, and Management Plans —<br>A Mandate for the Future<br>Developing Environmental Guidelines for Canadian Golf Courses<br>Black Cutworms: Where Are They Coming From?<br>Beyond Appearance and Playability: Golf and the Environment<br>Fire as a Landscape Management Tool<br>Developments in Canada Goose Repellents<br>Treat the Symptom . . . or Correct the Cause?<br>Simple Fences Minimize Goose Traffic<br>Natural Enemies Reduce Pest Populations in Turf | Latham, James M.<br>Koske, R., J. N. Gemma,<br>& N. Jackson<br>Henze, Laura E.<br>Weber, Arthur P.<br>Peacock, Dr. Charles H.<br>& Dr. M. Smart<br>Yamada, Teri<br>Williamson, R. Chris<br>& D. J. Shetlar<br>Kenna, Dr. Michael P.<br>Weston, John<br>Cummings, John<br>Moore, James Francis<br>Latham, James M.<br>Potter, Daniel A. | 1996. May/June 34(3):2-5.<br>1995. Nov/Dec 33(6):12-14.<br>1995. Sept/Oct 33(5):5-7.<br>1995. Sept/Oct 33(5):13-15.<br>1995. May/June 33(3):10-14.<br>1995. Mar/Apr 33(2):8-9.<br>1994. Sept/Oct 32(5):5-7.<br>1994. July/Aug 32(4):12-15.<br>1994. Jan/Feb 32(1):14-16.<br>1993. Sept/Oct 31(5):6-7.<br>1993. Sept/Oct 31(5):21.<br>1993. May/June 31(3):18.<br>1992. Nov/Dec 30(6):6-10. |
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13. PONDS

Keeping An Eye Out  
 Aquascaping: The Natural Approach to Water Features  
 You Can Bank On It! [stream bank stabilization]  
 Flotation Devices  
 Squamish Valley — The Home to Birdies and Eagles  
 Grass Carp: Are They Really the Perfect Solution?  
 Soil Bioengineering: A Natural Approach to  
 Stream Bank Stabilization  
 Restoration of Potash Pond  
 Concern for Surface Runoff — More on Water Quality

Dodson, Ron 1996. Sept/Oct 34(5):13-14.  
 Beeman, Steve 1995. Nov/Dec 33(6):6-8.  
 Oatis, David A. 1995. May/June 33(3):15.  
 Gross, Patrick 1995. May/June 33(3):24-25.  
 Banbury, David 1994. Mar/Apr 33(2):6.  
 Sadlon, Nancy P. 1994. Mar/Apr 33(2):15-16.  
 Sadlon, Nancy P. 1993. Sept/Oct 31(5):18-19.  
 Bertrand, Scott 1993. July/Aug 31(4):19-21.  
 Sadlon, Nancy P. 1992. Nov/Dec 30(6):19.



14. RESEARCH

The Bird Communities of Prairie Dunes Country Club  
 and Sand Hills State Park  
 TW-72: A Potential New Bermudagrass  
 Wildlife Links Grants Announced  
 USGA Research Summaries Available  
 Physiological Management of *Bipolaris sorokiniana*  
 Leaf Spot Symptom Expression by Kentucky Bluegrass  
 Sensible Choices  
 Back to Basics  
 The Environmentally Sound Turfgrass of the Future  
 [seashore paspalum]  
 Using Common Cents! [research funding]  
 Mycorrhizal Fungi Benefit Putting Greens  
 FLoraTeX® — A Low-Maintenance Bermudagrass for the South  
 The USGA's Environmental Strategies:  
 What We've Got and What We Need  
 Herbicide-Resistant Creeping Bentgrass  
 What Happens to Pesticides Applied to Golf Courses?  
 The Fate of Pesticides and Fertilizers in a Turfgrass Environment  
 Potential Movement of Pesticides Following Application  
 to Golf Courses  
 Pesticide Mobility and Persistence in a High-Sand-Content Green  
 Volatilization and Dislodgeable Residues Are Important  
 Avenues of Pesticide Fate  
 Nitrogen and Phosphorus Fate When Applied to Turfgrass  
 in Golf Course Fairway Condition  
 Pesticide Degradation Under Golf Course Fairway Conditions  
 Leaching of Nitrate from Sand Putting Greens  
 Potential Groundwater Contamination from Pesticides and  
 Fertilizers Used on Golf Courses  
 The Impact of Soil Type and Precipitation on Pesticide  
 and Nutrient Leaching from Fairway Turf  
 Transport of Runoff and Nutrients from Fairway Turfs  
 The Effect of Salinity on Nitrate Leaching from Turfgrass

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 Smith, Dr. Al 1995. Jan/Feb 33(1):13-14.  
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 Cooper, Dr. R. J., Dr. J. M. Clark & Dr. K. C. Murphy 1995. Jan/Feb 33(1):19-22.  
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 Brauen, Dr. Stanton E. & Dr. G. K. Stahnke 1995. Jan/Feb 33(1):29-32.  
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**14. RESEARCH (continued)**

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<p>Additional Research Funding Approved Beyond Appearance and Playability: Golf and the Environment Assessing Chemical Hazards on Golf Courses</p> <p>GCSAA Turfgrass Research Donation USGA Research Summaries Available Water Retention in Golf Greens: Sub-Root Zone Layering Effects</p> <p>Investigating the Options in the New USGA Green Construction Recommendations Bentgrass Breeding — Texas Style Developments in Canada Goose Repellents The Bird Community Found on British Columbia Golf Courses</p> <p>TGIF - 'On Call' For You! Survival of the Fittest [bentgrass nurseries] Turfgrass and Golf Course Benefits — A Scientific Assessment</p> <p>Research Update: Potential for Natural Zeolite Uses on Golf Courses Natural Enemies Reduce Pest Populations in Turf Out of Africa — A New Look at "African" Bermudagrass USGA/GCSAA Research Results You Can Use Biological Control of Diseases on Golf Course Turf Issues in Golf in the 1990s Biological Control of Diseases on Golf Course Turf Introducing an Improved Native: '609' Buffalograss</p>	<p>Anonymous Kenna, Dr. Michael P. Borgert, C. J., S. M. Roberts, R. D. Harbison, J. L. Cisar &amp; G. H. Snyder Anonymous Anonymous Taylor, Don, F. Williams &amp; S. Nelson Gaines, T. Powell  Engelke, Dr. Milt Cummings, John Moul, Ian E. &amp; J. E. Elliott Moore, James Francis O'Brien, Patrick M. Beard, Dr. James B. &amp; Dr. R. L. Green Petrovic, A. Martin  Potter, Daniel A. Taliaferro, Dr. Charles M. Kenna, Dr. Michael P. Nelson, Dr. Eric B. Bloch, Stuart F. Nelson, Dr. Eric B. Bauer, Barbara</p>	<p>1994. Sept/Oct 32(5):16. 1994. July/Aug 32(4):12-15. 1994. Mar/Apr 33(2):11-14.  1993. Sept/Oct 31(5):20. 1993. Sept/Oct 31(5):20-21. 1994. Jan/Feb 32(1):17-19.  1993. Nov/Dec 31(6):7-10.  1993. Nov/Dec 31(6):16-18. 1993. Sept/Oct 31(5):6-7. 1993. July/Aug 31(4):13-15.  1993. May/June 31(3):15. 1993. May/June 31(3):22-23. 1993. May/June 31(3):26-30.  1993. Jan/Feb 31(1):11-14.  1992. Nov/Dec 30(6):6-10. 1992. July/Aug 30(4):10-12. 1992. May/June 30(3):6-9. 1992. Mar/Apr 30(2):11-14. 1992. May/June 30(3):21-23. 1992. Mar/Apr 30(2):11-14. 1992. Jan/Feb 30(1):20.</p>
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**15. ROUGHS**

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<p>Thirsty Turf Wildflowers on Your Course? Managing Wildlife and Habitat The Perfect Grass You Can Bank On It! [stream bank stabilization] Surround Your Greens With Quality [green surrounds] Fire as a Landscape Management Tool Golf Course Construction: Grow-In Philosophies Applewood Golf Course: Reintroducing the Shortgrass Prairie and Links-Style Golf Landscaping the Golf Course for Wildlife</p>	<p>Dodson, Ron Krouse, John M. Dodson, Ron O'Brien, Patrick M. Oatis, David A. Gilhuly, Larry Weston, John Buchen, Terry Conard, Ron  Dodson, Ron</p>	<p>1996. July/Aug 34(4):18-20. 1996. Mar/Apr 34(2):8-11. 1996. Mar/Apr 34(2):17-18. 1995. May/June 33(3):9. 1995. May/June 33(3):15. 1995. Mar/Apr 33(2):10-12. 1994. Jan/Feb 32(1):14-16. 1993. Sept/Oct 31(5):11-14. 1992. Nov/Dec 30(6):11-12.  1992. Sept/Oct 30(5):20.</p>
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**16. SAND BUNKERS**

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<p>A Float Above The Rest Avoiding the Hazards of Golf Course Renovation Sand Bunkers: Old and New Ideas You Can Take to the Bunker</p>	<p>Skorulski, Jim Manuel, George B. Baidy, Joseph G. Gast, Chuck</p>	<p>1996. May/June 34(3):8. 1995. July/Aug 33(4):5-7. 1994. May/June 33(3):19-21. 1992. May/June 30(3):4-5.</p>
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**17. SOILS**

The Ups and Downs of Rolling Putting Greens	Hartwiger, Chris	1996. July/Aug 34(4):1-4.
The Magic of Sulfur	O'Brien, Patrick M.	1996. May/June 34(3):6-7.
Lay Down Some Rubber	Hartwiger, Christopher E.	1996. May/June 34(3):19-20.
Shallow Aeration: Deeper Is Not Always Better	Zontek, Stanley J.	1996. May/June 34(3):27-28.
Sampling for Results — The Methods Are Important	Happ, Keith A.	1995. Sept/Oct 33(5):1-4.
A Successful Topdressing Program Requires Consistency, Commitment, and Communication	Vavrek, Jr., Robert C.	1995. Sept/Oct 33(5):8-10.
Fairway Aerification Around the Clock	Weaver, Bob	1995. July/Aug 33(4):13-14.
Composting: Turn Your Eyesore Into Black Gold	Senseman, Robert Y.	1995. May/June 33(3):8.
The Effect of Salinity on Nitrate Leaching from Turfgrass	Bowman, Dr. Daniel C., Dr. D. A. Devitt & W. M. Miller	1995. Jan/Feb 33(1):45-49.
Managing Soil Water	Zontek, Stanley J.	1994. Sept/Oct 32(5):1-4.
What Can You Do If Your Golf Course Has Gas? [landfill golf courses]	Gross, Patrick J.	1994. July/Aug 32(4):1-4.
Mr. Wizard Visits the Golf Course [soils, water quality]	Moore, James F.	1994. May/June 33(3):6-7.
Blockbuster Aerification	O'Brien, Patrick M.	1994. May/June 33(3):14.
Water Retention in Golf Greens: Sub-Root Zone Layering Effects	Taylor, Don F. Williams & S. Nelson	1994. Jan/Feb 32(1):17-19.
Investigating the Options in the New USGA Green Construction Recommendations	Gaines, T. Powell	1993. Nov/Dec 31(6):7-10.
Does Construction Relate to Maintenance Costs? Don't Underestimate Irrigation, Drainage, and Soil Systems	Kroeger, Ricky J.	1993. Sept/Oct 31(5):15-17.
A Quality Control Checklist for Successful Greens Reconstruction	Moore, James Francis	1993. July/Aug 31(4):1-5.
Biting the Bullet: Greens Complex Reconstruction at the Country Club of Virginia	Hess, Alan D.	1993. July/Aug 31(4):16-18.
Filling Aerator Holes Completely The First Time	Zontek, Stanley J.	1993. May/June 31(3):34-35.
USGA Recommendations for a Method of Putting Green Construction	USGA Green Section Staff	1993. Mar/Apr 31(2):1-3.
Rationale for the Revisions of the USGA Green Construction Specifications	Hummel, Jr., Dr. Norman W.	1993. Mar/Apr 31(2):7-21.
Why We Need Laboratory Standards For Testing Root Zone Mixes	Hummel, Jr., Dr. Norman W.	1993. Mar/Apr 31(2):22.
Laboratory Methods for Evaluation of Putting Green	Hummel, Jr., Dr. Norman W.	1993. Mar/Apr 31(2):23-33.
Research Update: Potential for Natural Zeolite Uses on Golf Courses	Petrovic, A. Martin	1993. Jan/Feb 31(1):11-14.
A Practical Guide to Analyzing the Soil	Mascaro, Tom	1992. July/Aug 30(4):13-16.
News and Views on the USGA Specifications	Hummel Jr., Dr. Norman H.	1992. May/June 30(3):28-29.
Aeration: Needed More Today Than Ever Before	Vavrek, Jr., Robert C.	1992. Mar/Apr 30(2):1-5.
Drainage Improvement — Remedy Without Reconstruction in New Zealand	McAuliffe, Keith W.	1992. Mar/Apr 30(2):6-10.
Back to the Basics for Golf and the Environment	Manuel, George B.	1992. Mar/Apr 30(2):14-16.
Cultivation Has Changed	Carrow, Dr. Robert N.	1992. Jan/Feb 30(1):5-9.

**18. SUPERINTENDENT ISSUES**

Communication and Golf Course Maintenance	Brame, Bob	1996. Nov/Dec 34(6):1-5.
Don't Kid Yourself	Brame, R. A.	1996. Sept/Oct 34(5):16.
Public Panic Over Pesticides?	Paling, John	1996. May/June 34(3):11-13.
Staying on Course [superintendent tenure]	Foy, John H.	1996. Jan/Feb 34(1):19.
The Need for Teamwork	Moore, James F.	1995. Nov/Dec 33(6):21.
What's Worth Worrying About in Life?	Kenna, Dr. Michael P.	1995. July/Aug 33(4):10-12.
IPM, Monitoring, and Management Plans — A Mandate for the Future	Peacock, Dr. Charles H. & Dr. M. Smart	1995. May/June 33(3):10-14.
A New Attitude: Audubon, Our Golf Course, and the Community	Leuzinger, Peter V.	1994. May/June 33(3):2-5.
Getting the Word Out [communication techniques]	Foy, John H.	1994. May/June 33(3):15.
Strategies for Successful Long-Term Maintenance of Golf Courses	Crenshaw, Ben	1994. May/June 33(3):26-28.
Every Picture Tells a Story	Manuel, George B.	1994. May/June 33(3):30-31.
The Media and the Game of Golf	Hearn, Don	1994. Jan/Feb 32(1):6-9.
What Do Managers Need to Know About Golf Course Management?	Gross, Patrick	1993. Sept/Oct 31(5):8-10.
Television Golf and the Golf Course Superintendent	Pate, Jerry	1993. May/June 31(3):19-21.
Evolving Roles in Golf	Roberts, William R.	1993. May/June 31(3):10-14.
TGIF — 'On Call' For You!	Moore, James Francis	1993. May/June 31(3):15.
The Journey Continues — More Maintenance Pitfalls	Brame, Robert A.	1993. Nov/Dec 31(6):1-6.
Nice Guys Sometimes Finish Last [superintendent responsibility]	Moore, James Francis	1993. Jan/Feb 31(1):19.



**18. SUPERINTENDENT ISSUES (continued)**

Employment Contracts: The Missing Link!	Brame, Robert A.	1992. Sept/Oct 30(5):21.
Looking at a Bad Year in a Good Light [turf management]	Oatis, David A.	1992. Jan/Feb 30(1):10-12.
Is the Grass Always Greener on the Other Side? [golf course comparisons]	Foy, John H.	1992. Jan/Feb 30(1):24.

**19. TEES**

Ergonomic Tee Divot Filling	Brame, Bob	1996. May/June 34(3):14.
Common Sense Cart Paths	Oatis, David A.	1994. Jan/Feb 32(1):1-5.
Golf Course Construction: Grow-In Philosophies	Buchen, Terry	1993. Sept/Oct 31(5):11-14.
Tee Construction: Use of the Laser Grader	O'Brien, Patrick M.	1993. July/Aug 31(4):6-8.
Warmed-Up But Not Worn Out [warm-up areas]	Gross, Patrick J.	1993. May/June 31(3):24.

**20. TRAFFIC***New Zealand.*

Taking Spikeless Shoes Public	Meredith, Sam	1996. Nov/Dec 34(6):6-7.
The Metallic Mashers of Monocots — Golf Spikes!	Gilhuly, Larry	1996. Sept/Oct 34(5):1-4.
Lay Down Some Rubber	Hartwiger, Christopher E.	1996. May/June 34(3):19-20.
Surround Your Greens With Quality [green surrounds]	Gilhuly, Larry	1995. Mar/Apr 33(2):10-12.
Common Sense Cart Paths	Oatis, David A.	1994. Jan/Feb 32(1):1-5.
Trail Blazing [cart path edging]	Vermeulen, Paul H.	1993. May/June 31(3):16-17.
Guideposts for Good Drivers	Latham, James M.	1992. May/June 30(3):2-3.
Wheels of Misfortune [golf carts]	Connolly, James E.	1992. May/June 30(3):3.
Search Your Sole — Remove Your Spikes!	Gilhuly, Larry W.	1992. Mar/Apr 30(2):24.

**21. TREES AND LANDSCAPE**

The Bird Communities of Prairie Dunes Country Club and Sand Hills State Park	Terman, Max R., Ph.D.	1996. Nov/Dec 34(6):10-14.
Optimizing the Turfgrass Canopy Environment with Fans	O'Brien, Patrick M.	1996. July/Aug 34(4):9-12.
Developing a Tree Care Program	Skorulski, James	1996. Mar/Apr 34(2):1-7.
Wildflowers on Your Course?	Krouse, John M.	1996. Mar/Apr 34(2):8-11.
Aquascaping: The Natural Approach to Water Features	Beeman, Steve	1995. Nov/Dec 33(6):6-8.
The Red-Cockaded Woodpecker: An Endangered Species in Golf Country	Carter III, Dr. R. D. & B. G. Kocher	1995. July/Aug 33(4):8-9.
Recycling for Habitat	Foy, John H.	1995. May/June 33(3):7.
Blowing Your Top! [tree care for wildlife]	Gilhuly, Larry	1995. May/June 33(3):30-31.
Ozaukee Country Club's Audubon Stepping Stone to a Better Environment	Bailey, Phil	1994. Sept/Oct 32(5):12-14.
What Can You Do If Your Golf Course Has Gas? [landfill golf courses]	Gross, Patrick J.	1994. July/Aug 32(4):1-4.
A New Attitude: Audubon, Our Golf Course, and the Community Butterflies	Leuzinger, Peter V.	1994. May/June 33(3):2-5.
Fire as a Landscape Management Tool	Sadlon, Nancy P.	1994. Jan/Feb 32(1):20-22.
Maps Can Improve Your Environmental Planning Initiatives	Weston, John	1994. Jan/Feb 32(1):14-16.
Soil Bioengineering: A Natural Approach to Stream Bank Stabilization	Sadlon, Nancy P.	1993. Nov/Dec 31(6):19-20.
Restoration of Potash Pond	Sadlon, Nancy P.	1993. Sept/Oct 31(5):18-19.
Landscaping the Course for Wildlife	Bertrand, Scott	1993. July/Aug 31(4):19-21.
A Tall Tale from the Great White North [tree transplants]	Dodson, Ron	1992. Sept/Oct 30(5):20.
	Skorulski, James E.	1992. May/June 30(3):11-12.

**21. TREES AND LANDSCAPE (continued)**

Tree Lightning Protection and How It Should Impact Play	O'Brien, Patrick M.	1992. May/June 30(3):13-14.
Encouraging Wildlife at The Honors Course	Stone, David	1992. May/June 30(3):15-17.
Time-Lapse Photography and Sunlight Penetration	Brame, Robert A.	1992. May/June 30(3):19.
Tree Snags — A Tree Even an Agronomist Can Love!	Sadlon, Nancy P.	1992. May/June 30(3):24-25.
Fire in the Hole [tree program]	Moore, James	1992. May/June 30(3):25-26.
Measuring Air Movement for Better Grass	Zontek, Stanley J.	1992. May/June 30(3):38-39.
Golf Course Winter Projects	Sadlon, Nancy P.	1992. Jan/Feb 30(1):21-22.

**22. TURF MANAGEMENT RELATED TO THE GAME OF GOLF**

The Metallic Mashers of Monocots — Golf Spikes!	Gilhuly, Larry	1996. Sept/Oct 34(5):1-4.
Ergonomic Tee Divot Filling	Brame, Bob	1996. May/June 34(3):14.
The USGA: The First Hundred Years, The Next Hundred Years	Fay, David B.	1996. May/June 34(3):21-26.
Great Expectations [golfer playing conditions]	Gilhuly, Larry	1996. Mar/Apr 34(2):20.
Recipe for Rapid Recovery from Winter Injury	Shafer, Earl, K. Snyder, & S. Zontek	1996. Jan/Feb 34(1):6-8.
The Environmentally Sound Turfgrass of the Future [seashore paspalum]	Duncan, Dr. Ronald R.	1996. Jan/Feb 34(1):9-11.
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**23. WINTER CONCERNS**

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