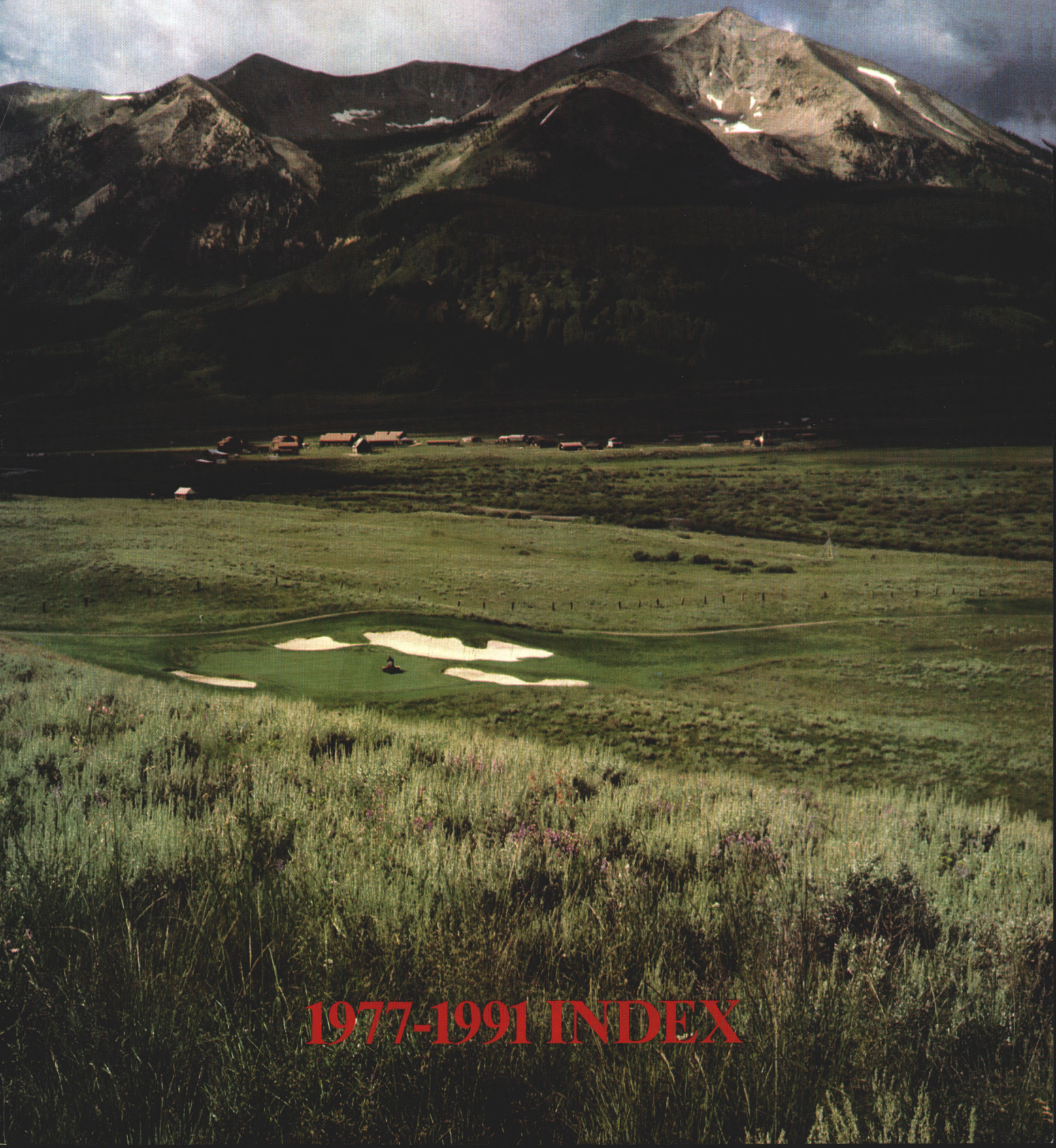


USGA® Green Section **RECORD**

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USGA Green Section Record Index

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It has been 15 years since the last Green Section Record index was published. During that time, the magazine has published hundreds of popular and scientific articles dealing with turfgrass management and golf course maintenance. To aid in the use of the index, the following list of subject categories has been prepared. Twenty-three major subject areas have been identified. In some instances, the subject has been sub-divided into specific topics. The articles in each category are listed chronologically and include the name of the author, the year, the volume, the number, and the pages where they can be found in the Green Section Record. Certain articles have been referenced in several categories where appropriate.

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Fertility — Using Lower Levels of Nitrogen	Ansett, Timothy G.	1981. Mar/Apr 19(2):26-27.
Fertigation	Sincerbeau, Scott A.	1979. May/June 17(3):10-12.
Nutrients Affect Color and Vigor of Turfgrasses	Buchanan, William G.	1979. Mar/Apr 17(2):18-20.
Soil Testing for Turfgrasses	Turner, Thomas R.	1978. May/June 16(3):6-8.
"Three Years of Experience With a USGA Green"	Phipps, Bob	1978. Jan/Feb 16(1):11-13.
Some Agronomic Aspects of Turf Fertilization	Snyder, G. H.	1977. May/June 15(3):10-12.
	& E. O. Burt	
Nitrogen Losses From Golf Greens	Brown, K. W., R. L. Duble & J.C. Thomas	1977. Jan/Feb 15(1):5-7.

GOLF COURSE MANAGEMENT & BUDGETS**EQUIPMENT & BUILDINGS**

Greensmower Maintenance	Moraghan, Tim	1991. May/June 29(3):9-11.
Past and Present [equipment modification]	Skorulski, Jim	1991. Mar/Apr 29(2):18.
Help From Above	Connolly, James	1991. Mar/Apr 29(2):31.
A Supplemental Building for Reel and Bedknife Grinding	O'Brien, Patrick M.	1990. Mar/Apr 28(2):33.
Sand From Heaven	Gilhuly, Larry	1990. Mar/Apr 28(2):34-35.
Taking a Look at the Whole Picture	Connolly, James	1989. Nov/Dec 27(6):7-8.
Playing Host to a Championship Can Benefit Your Course!	Moraghan, Tim	1989. Sept/Oct 27(5):1-5.
Turf Groomers: Good for the Grass, Good for the Game	Zontek, Stanley J.	1989. Mar/Apr 27(2):18.
FM Radios on the Golf Course: The Next Best Thing to Being Two Places at the Same Time	Moore, James F.	1988. Nov/Dec 26(6):10-11.
Golf House Management Philosophy — It's a Matter of Quality	Gilhuly, Larry W.	1988. July/Aug 26(4):1-6.
The One-Man Topdressing Operation	Foy, John H.	1988. Mar/Apr 26(2):21-22.
Getting Your House in Order — An Equipment List Update	Gilhuly, Larry W.	1987. Sept/Oct 25(5):8-10.
Gee, I Thought It Ran Forever!	Watschke, Gary A.	1987. July/Aug 25(4):7-9.
Equipment Purchasing & Inventory: Part I	DeHays, H. A.	1987. May/June 25(3):12-13.
Planning the Golf Course Maintenance Facility	Watschke, Gary A.	1987. Mar/Apr 25(2):2-3.
Of Sprays and Sparks	Latham, James M.	1986. July/Aug 24(4):8-10.
Golf Course Safety — Pay Attention Now or Pay (And Pay) Later	Gilhuly, Larry W.	1986. May/June 24(3):1-4.
Focusing In On Golf Course Maintenance — 1986	Gilhuly, Larry W.	1986. Mar/Apr 24(2):15-16.
Hydraulic Leak Warning	Gilhuly, Larry W.	1984. July/Aug 22(4):6-8.
Going Around With Big Wheels	Olson, Karl E.	1984. May/June 22(3):7-8.
Hi-Tech Equipment Calls for Higher Skills and Better Training	Randquist, Robert	1983. Nov/Dec 21(6):5-7.
Should You Change From Triplex Green Mowers to Walking Green Mowers?		
They Are Mowing Fairways with Triplex Mowers and Picking Up the Clippings, Too!	Zontek, Stanley J.	1983. Jan/Feb 21(1):1-5.
Spending a Little — Saving a Lot	Zontek, Stanley J.	1982. Mar/Apr 20(2):16-17.
Why Has Golf Course Design Changed?	Nugent, Richard P.	1982. Mar/Apr 20(2):23-26.
Quality Playing Conditions and Proper Equipment	Eichner, Richard H.	1981. Mar/Apr 19(2):16-17.
The Triplex "Ring"	Snow, James T.	1980. Nov/Dec 18(6):12-14.

GOLF COURSE MANAGEMENT & BUDGETS (continued)**EQUIPMENT & BUILDINGS (continued)**

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| With Perseverance — A New Maintenance Building | Oxenvad, Louis F. | 1980. Sept/Oct 18(5):5-7. |
| Alcohol Fuel — For Golf Course Use | Reese, F. & R. Coulter | 1980. Sept/Oct 18(5):11-13. |
| Golfers Today Are Reaping the Benefits of the Green Section | Snyder, Arthur A. | 1980. May/June 18(3):12-13. |
| Form Follows Function . . . Or Does It? | Miller, Paul F. | 1979. Sept/Oct 17(5):9. |
| We Built a Truckster-Mounted Topdresser | Cedrone, Vic | 1979. May/June 17(3):8-9. |
| Management Makes a Different | Eichner, Richard H. | 1978. Mar/Apr 16(2):8-10. |
| The Numbers Racket — A Better Angle? | Brewer, William S., Jr. | 1978. Jan/Feb 16(1):1-5. |
| Prepare Your Own Topdressing | Verma, Braham P. | 1977. Nov/Dec 15(6):9-11. |
| Great Golf Courses of America — | McKenzie, L. T., | 1977. Mar/Apr 15(2):18-20. |
| Their Maintenance Crews and Equipment [panel discussion] | R. M. Malpass &
W. H. Bengeyfield | |
| Sump Pumps for Unusual Drainage Problems | Engel, R. E. | 1977. Jan/Feb 15(1):8-9. |
| Take Care of Your Power Sprayer | Schwartzkopf, Carl H. | 1977. Jan/Feb 15(1):10-12. |

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| Section Maintenance — It Could Be Your Pot of Gold! | Gilhuly, Larry W. | 1991. May/June 29(3):1-4. |
| Backing Into Professionalization | Metsker, Stan | 1990. Mar/Apr 28(2):9. |
| Improving Your E.Q. [communication] | Moraghan, Tim | 1990. Mar/Apr 28(2):32. |
| The Lone Ranger Rides Again | Moraghan, Tim P. | 1989. Jan/Feb 27(1):7-9. |
| Employee Development: Management's Responsibility | Youngs, Greg | 1988. Nov/Dec 26(6):7-9. |
| Required Maintenance Versus Available Labor — | Moore, Martin | 1988. Jan/Feb 26(1):12-14. |
| Are You Adequately Staffed? | | |
| Training for Today's and Tomorrow's Golf Course Superintendents | DuBose, Harry M. | 1983. July/Aug 21(4):9-10. |
| Hiring Practices | Snow, James T. | 1983. Mar/Apr 22(2):5-6. |
| I Need a Secretary! | Hawes, Douglas T. | 1984. Mar/Apr 22(2):10-11. |
| A Secretary for the Golf Course Superintendent — | Bator, Richard | 1982. July/Aug 20(4):11-12. |
| The Need Is Great! | | |
| Spending a Little — Saving a Lot | Zontek, Stanley J. | 1982. Mar/Apr 20(2):16-17. |
| Quality Playing Conditions and Priorities | Horton, Edward C. | 1981. Mar/Apr 19(2):7-9. |
| (A Suggested Guide When Starting a New Job) | | |
| The Economy and Course Playing Quality | Buchanan, William G. | 1980. Sept/Oct 18(5):1-4. |
| New Zealand — Turfgrass Management in an Incredible Land | Bengeyfield, W. H. | 1978. July/Aug 16(4):10-12. |
| Great Golf Courses of America — | McKenzie, L. T., | 1977. Mar/Apr 15(2):18-20. |
| Their Maintenance Crews and Equipment [panel discussion] | R. M. Malpass &
W. H. Bengeyfield | |

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| Playing Host To a Championship Can Benefit Your Course! | Moraghan, Tim P. | 1989. Sept/Oct 27(5):1-5. |
| Avoiding False Economy in Golf Course Management | Veron, J. Michael | 1989. May/June 27(3):9-10. |
| Getting the Priorities Straight | Zontek, Stanley J. | 1988. Sept/Oct 26(5):17. |
| What Do You Do With It All? | Goss, Roy L. | 1987. May/June 25(3):6-8. |
| Never Compare Golf Course Budgets | Bailey, David | 1987. Jan/Feb 25(1):5-6. |
| Who Said, "The Grass is Always Greener . . ." | Snow, James T. | 1985. Jan/Feb 23(1):1-4. |
| Budgeting and Purchasing: Important Factors | Williams, Bruce R. | 1984. Mar/Apr 22(2):4-5. |
| in the Business of Golf Course Management | | |
| Controlling Golf Course Maintenance Costs — An Owner's View | Giustina, N. B. | 1983. Jan/Feb 21(1):6-8, 13. |
| Quality Playing Conditions and Budgeting | Black, C. William | 1981. Mar/Apr 19(2):10-11. |
| Management Makes a Difference | Eichner, Richard H. | 1978. Mar/Apr 16(2):8-10. |
| Management Makes a Difference — The Budget | Snow, James T. | 1978. Mar/Apr 16(2):13-14. |
| The Numbers Racket — A Better Angle? | Brewer, William S. | 1978. Jan/Feb 16(1):1-5. |
| Great Golf Courses of America — Their Maintenance Budgets | Marquoit, Tom | 1977. Mar/Apr 15(2):14-17. |

COMPUTERS

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| Graphic Golf Course Management | Moore, James F. | 1990. July/Aug 28(4):9-12. |
| 40 Megabytes of Donald Ross | Connor, Edward H. | 1990. Mar/Apr 28(2):6-8. |
| How To Make the Right Connections | Moore, James F. | 1988. May/June 26(3):4-6. |
| Personal Computers — A New Chip for the Course | Moore, James F. | 1985. Nov/Dec 23(6):1-4. |
| Monitoring the Operations | Buchanan, William G. | 1984. Mar/Apr 22(2):7-8. |
| The Art of Yesterday — The Science of Today | Bengeyfield, William H. | 1982. Mar/Apr 20(2):2-3. |

GOLF COURSE MANAGEMENT & BUDGETS (continued)**MAINTENANCE PHILOSOPHY**

Just One More Little Crisis
 Take a Hike! [walking the course]
 What's your Batting Average?
 An Opinion on Unreasonable Expectations
 Glitz and Glamour Golf
 It's The Little Things That Count
 Golf House Management Philosophy — It's a Matter of Quality
 Impressions of a Summer's Tour With the Green Section
 Management on the Edge
 A Few Minutes With Frank Hannigan
 Reflections On a Recent Journey to Scotland
 Is Today's Golf Course Management Too Fine?
 Why Don't the Greens Hold?
 Turf Management in England and Scotland:
 So Similar, Yet So Different
 Ideas on Management
 Monitoring the Operations
 Who Sets the Standards for Play on Your Golf Course?
 Some Qualities of Great Golf Course Superintendents
 The Golf Course Superintendent and Maintaining
 the Integrity of the Course
 Quality Playing Conditions for the Public Golfer
 For Good Golf and Good Turf — Use Less Water
 To Live — Grass Must Be Green
 How Green is Green? How Brown is Brown? A Middle Approach
 Controlling Golf Course Maintenance Costs - An Owner's View
 Place the Emphasis on Playing Conditions
 Practice Ranges — Are They Neglected?
 Quality Playing Conditions for Every Day
 The Economy and Course Playing Quality
 A Playing Comparison of British and American Courses
 A Golfer's View of Maintenance
 Firm vs. Soft Playing Conditions
 The Best Laid Plans . . .
 One Management System to Check Skyrocketing Costs

Pierson, Dan 1991. May/June 29(3):5-8.
 Gilhuly, Larry W. 1991. Mar/Apr 29(2):2-3.
 Zontek, Stanley J. 1990. Sept/Oct 28(5):17.
 Radko, Al 1990. July/Aug 28(4):17.
 Lyon, Dennis 1990. Mar/Apr 28(3):27-29.
 Gilhuly, Larry W. 1988. July/Aug 26(4):1-6.
 Moore, Sherwood A. 1988. May/June 26(3):6-8.
 Moore, James F. 1987. July/Aug 25(4):1-3.
 Hannigan, Frank 1987. Mar/Apr 25(2):30-32.
 Quast, Danny H. 1985. Nov/Dec 23(6):11-12.
 Goss, Roy L. 1985. Mar/Apr 23(2):23-25.
 Buchanan, William G. 1984. July/Aug 22(4):1-5.
 Zontek, Stanley J. 1984. July/Aug 22(4):12-13.
 Hale, Nathan B. 1984. May/June 22(3):9-10.
 Buchanan, William G. 1984. Mar/Apr 22(2):7-8.
 Osterman, Robert W. 1984. Mar/Apr 22(2):12-14.
 Hand, James R. 1984. Mar/Apr 22(2):26-29.
 Fleming, John 1983. Sept/Oct 21(5):11-13.
 Finamore, Steve 1983. May/June 21(3):4-5.
 Zoller, John A. 1983. Mar/Apr 21(2):22-24.
 Watson, J.R. 1983. Mar/Apr 21(2):25-27.
 Cadenelli, Stephen B. 1983. Mar/Apr 21(2):27-28.
 Giustina, N. B. 1983. Jan/Feb 21(1):6-8,13.
 Buchanan, William G. 1982. Mar/Apr 20(2):14-15.
 Brewer, William S. 1982. Jan/Feb 20(1):11-13.
 Mitchell, Robert V. 1981. Mar/Apr 19(2):2-4.
 Buchanan, William G. 1980. Sept/Oct 18(5):1-4.
 Sigel, Jay 1980. Mar/Apr 18(2):4.
 Berg, Tim 1979. Nov/Dec 17(6):9-12.
 Black, Joe 1979. Mar/Apr 17(2):11-13.
 Snow, James T. 1978. Nov/Dec 16(6):1-6.
 Davis, Gregory R. 1977. May/June 15(3):6-8.

GREEN COMMITTEE

Liability on the Golf Course
 Make the Most of a Great Resource — USGA Green Section Visits
 The Winner in the Long Run [green chairman]
 Course Care: Responsibility of the Player Too!
 The Trials and Tribulations of a Green Committee Chairman
 Green Committees
 Time Is of the Essence
 What Am I, Chopped Liver?
 The More Information We Pass On —
 The Less We Have to Communicate!
 Some Committee Questions That Come to Mind
 Mr. Superintendent — Mr. Green Chairman:
 Here's One Way to Improve More Than Your Lie!
 Money Is Not the Problem
 Should a Green Committee Be Green?
 Membership Questionnaires — Find Out Where You Really Stand
 "Mr. Green Committee Chairman"
 The Best Laid Plans . . .
 The Public Parks Golfer Deserves Something More
 Than Mediocre Golfing Turf!

Veron, J. Michael 1990. Sept/Oct 29(5):10-14.
 Davies, Ray 1990. May/June 28(3):6-7.
 Gilhuly, Larry W. 1988. July/Aug 26(4):17.
 Radko, Alexander M. 1980. May/June 18(3):7-9.
 Keel, Howard 1987. Mar/Apr 25(2):27-29.
 Steel, Donald 1986. May/June 24(3):11.
 Walsh, Ed 1985. Mar/Apr 23(2):12.
 Quast, Danny H. 1985. Mar/Apr 23(2):14-16.
 Luigs, Joe 1985. Mar/Apr 23(2):16-18.
 Budd, Eli 1985. Mar/Apr 23(2):20.
 Anonymous 1984. May/June 22(3):13.
 Monson, John 1984. Mar/Apr 22(2):9-10.
 Moncrief, James B. 1982. Mar/Apr 20(2):12-13.
 Stark, William B., & W. Brewer 1981. Jan/Feb 19(1):5-8.
 Cato, Paul D., Jr. 1979. July/Aug 17(4):11-13.
 Snow, James T. 1978. Nov/Dec 16(6):1-6.
 Bengueyfield, William H. 1978. May/June 16(3):1-5.

MISCELLANEOUS

Stewards of the Land: An Opportunity
 Field Testing For Better Management

Faubel, Gerald 1991. Mar/Apr 29(2):22-24.
 Skorulski, James E. 1991. Jan/Feb 29(1):15-17.

GOLF COURSE MANAGEMENT & BUDGETS (continued)

MISCELLANEOUS (continued)

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| The Aftermath of a Hurricane | O'Brien, Patrick M. | 1990. May/June 28(3):10-12. |
| The International Flavor of Golf Course Management | Segui, John | 1989. Mar/Apr 27(2):6-7. |
| What They Don't Teach in Turf Schools | Johns, James A. | 1989. Mar/Apr 27(2):8-9. |
| Why Are Golf Courses Used as Proving Grounds? | Latham, James M. | 1988. Nov/Dec 26(6):12. |
| Government Golf — Keeping Up With the Competition | Latham, James M. | 1988. Sept/Oct 26(5):1-5. |
| Injuries on the Golf Course — Do You Know What to Do? | Couchman, Glen | 1988. Sept/Oct 26(5):6-8. |
| Public Golf Courses Ain't Dogs Anymore | Sokolis, Ted | 1988. Mar/Apr 26(2):13-15. |
| Programs With an Eye Toward the Future | Hearn, Donald E. | 1988. Mar/Apr 26(2):16-18. |
| Slow Down . . . You're Going Too Fast | Snow, James T. | 1987. Jan/Feb 25(1):7-10. |
| Aerial Photography and Maintenance Mapping | Watschke, Gary A. | 1986. Mar/Apr 24(2):32. |
| Vandalism - Is There Any Answer? | Moncrief, James B. | 1982. July/Aug 20(4):1-5. |
| Getting Ready for Summer: Lightning Alert | Gray, Dick | 1982. May/June 20(3):13. |
| Maintenance by Priority | White, Charles B. | 1981. May/June 19(3):1-3. |
| Quality Playing Conditions and Budgeting | Mitchell, Robert V. | 1981. Mar/Apr 19(2):10-11. |
| Infrared Photography | Faubel, Gerald L. | 1980. Mar/Apr 18(2):20-21. |
| Electrostatic Spraying of Turfgrass | Anantheswaran, R.C.
& S.E. Law | 1979. Nov/Dec 17(6):1-4. |
| A Machine for Cleaning Sand Bunkers | Verma, Brahm P. | 1978. Nov/Dec 16(6):10-12. |
| The ABCs of Management | Schwartzkopf, Carl H. | 1978. Mar/Apr 16(2):11-12. |
| "Yes! There Is Something New Under the Sun" [quality control] | Sanders, Bob | 1977. Sept/Oct 15(5):12. |
| The Outlook for Turf | Moncrief, James B. | 1977. Jan/Feb 15(1):1-5. |

GOLF GREENS

**CONSTRUCTION**

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| The Coarse Sand Layer — A Look at Installation | Brame, Robert A. | 1991. July/Aug 29(4):9-10. |
| Looking for a "Fast Food" Version of the USGA Spec Green | Snow, James T. | 1991. July/Aug 29(4):17. |
| Thirty Years of Green Section Greens | Latham, James M. | 1990. May/June 28(3):1-5. |
| Sometimes Successful Agronomy Means Starting Over | Vermeulen, Paul | 1989. July/Aug 27(4):1-4. |
| Putting Green Construction: Interpreting Physical Soil Test Data | Latham, James M. | 1989. July/Aug 27(4):4-7. |
| Back Yard Putting Greens: Dreams or Nightmares? | Danneberger, Karl | 1988. Jan/Feb 26(1):6-7. |
| Building Greens the Wrong Way Is Not Right | Moore, James F. | 1988. Jan/Feb 26(1):15-17. |
| The Agronomics of Sand in Construction and Topdressing | Latham, James M. | 1987. Sept/Oct 25(5):1-4. |
| Peat In Greens: Knowns, Unknowns and Speculations | Kussow, Wayne R. | 1987. Sept/Oct 25(5):5-7. |
| Need Insurance? Hydromulching is One Good Policy | O'Brien, Patrick M. &
R. Barksdale | 1987. Jan/Feb 25(1):1-4. |
| Great Lakes Region [season in review] | Latham, James M. | 1986. Nov/Dec 24(6):10. |
| Building Greens the Right Way — It's Easier Than You Think! | Neal, Harold G. | 1986. July/Aug 24(4):11-13. |
| Everything You've Always Wanted to Know About Putting Green
Soil Mixes But Didn't Know Whom to Ask | Gockel, Judith Ferguson | 1986. Mar/Apr 24(2):7-9. |

GOLF GREENS (continued)**CONSTRUCTION (continued)**

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| The Soils Controversy — Mixes for Green Construction and Topdressing | Ferguson, Marvin H. | 1983. Mar/Apr 21(2):18-21. |
| Sand — The Building Block | White, Charles B. | 1982. Sept/Oct 20(5):1-5. |
| Green Construction: The Right Materials Mixed Right | Ansett, Timothy G. | 1982. Mar/Apr 20(2):21-22. |
| The Necessity of the Two-Inch Sand Layer in Greens Construction | Brown, K. W.,
J. C. Thomas &
A. Almodares | 1980. Nov/Dec 18(6):1-4. |
| The Influence of the Sand Layer on Available Water Retention in Golf Greens | Brown, K. W. &
J. C. Thomas | 1980. Nov/Dec 18(6):5-7. |
| Construction of the USGA Green by the Superintendent | Miller, Louis E. | 1980. Mar/Apr 18(2):7-10. |
| When All Else Fails — Use Proven Guidelines | Brewer, William S. | 1979. Jan/Feb 17(1):1. |
| Principles of Soil Preparation for Drained Golf Greens | Spomer, L. Art | 1977. July/Aug 15(4):9-12. |

GOLF GREEN MANAGEMENT

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| Going for the Gold with Bermudagrass Greens | Foy, John H. | 1991. July/Aug 29(4):1-4. |
| Just One More Little Crisis | Pierson, Dan | 1991. May/June 29(3):5-8. |
| Finding Solutions for Poorly Drained Greens | Snow, James T. | 1991. Jan/Feb 29(1):10-14. |
| Field Testing for Better Management | Skorulski, James | 1991. Jan/Feb 29(1):15-17. |
| Controlling the Battle of Bermudagrass | Foy, John H. | 1990. Nov/Dec 28(6):13-16. |
| Comparing Hollow- and Solid-Tine Cultivation | Murphy, J. A. &
P. E. Rieke | 1990. Sept/Oct 28(5):7-10. |
| Managing Fertility in High-Sand-Content Greens | Zontek, Stanley J. | 1990. July/Aug 28(4):1-5. |
| 40 Megabytes of Donald Ross | Connor, Edward H. | 1990. Mar/Apr 28(2):6-8. |
| A Selective Annual Bluegrass Control — Finally! | Branham, B. E. | 1990. Jan/Feb 28(1):6-8. |
| Maintaining Adequate Phosphorus Levels in Sand Greens | Rieke, Paul E. | 1989. Nov/Dec 27(6):5-6. |
| Encroachment of Bermudagrass into Bentgrass Greens | Johnson, B. J. &
R. N. Carrow | 1989. Nov/Dec 27(6):9-12. |
| Those Were the Good Old Days! | Zontek, Stanley J. | 1989. Nov/Dec 27(6):13. |
| Consider <i>Poa annua</i> for Your New Green | Vermeulen, Paul | 1989. Sept/Oct 27(5):17. |
| Gassing and Regrassing | Walker, Tom | 1989. July/Aug 27(4):10-12. |
| Sometimes Successful Agronomy Means Starting Over | Vermeulen, Paul | 1989. July/Aug 27(4):1-4. |
| Turf Groomers: Good for the Grass, Good for the Game | Zontek, Stanley J. | 1989. Mar/Apr 27(2):18. |
| Pumping and Coring | Moore, James F. | 1989. Mar/Apr 27(2):34-35. |
| The Art of Handwatering | Sayre, Gary | 1988. July/Aug 26(4):13-15. |
| Managing Greens Under Stress | Zontek, Stanley J. | 1988. May/June 26(3):1-4. |
| Snake Oils | Moore, James F. | 1988. May/June 26(3):13. |
| It Was a Long Time Coming [deep aerification] | Zontek, Stanley J. | 1988. Mar/Apr 26(2):5. |
| Bentgrass or Bermudagrass Greens — What is Right for Florida? | Foy, John H. | 1988. Jan/Feb 26(1):1-5. |
| Politics, Religion, and Winter Play on Greens | Snow, James T. | 1987. Nov/Dec 25(6):1-4. |
| 1987: The Season in Review | Zontek, S. J.,
J. T. Snow,
G. A. Watchke,
J. J. Latham,
P. M. O'Brien,
J. H. Foy, J. F. Moore
& L. W. Gilhuly | 1987. Nov/Dec 25(6):7-12. |
| Managing Anaerobic Soils | Goss, Roy L. | 1987. July/Aug 25(4):12-13. |
| The C-S-T-M Factor [common sense turf management] | Zontek, Stanley J. | 1987. Mar/Apr 25(2):24-25. |
| Rooting Depth and Soil Sampling | Moore, James F. | 1987. Mar/Apr 25(2):33. |
| A Supplemental Irrigation System for Putting Greens | O'Brien, Patrick M. | 1987. Mar/Apr 25(2):34. |
| Mid-Atlantic Region [season in review] | Zontek, Stanley J.
& P. M. O'Brien | 1986. Nov/Dec 24(6):8. |
| Mid-Continent Region [season in review] | Moore, James F. | 1986. Nov/Dec 26(6):12. |
| Core Transplanting | Olson, Karl Ed | 1986. Mar/Apr 24(2):4-5. |
| Flushing Drains and Brushing Greens | White, Charles B. | 1986. Mar/Apr 24(2):14-15. |
| Aerial Photography and Maintenance Mapping | Watschke, Gary A. | 1986. Mar/Apr 24(2):32. |
| Agri-Systems Soil Testing Laboratory Will Continue | Anonymous | 1985. Mar/Apr 23(2):11. |
| Is Today's Golf Course Management Too Fine? | Goss, Roy L. | 1985. Mar/Apr 23(2):23-25. |
| Have We Gone Too Far with Low Nitrogen on Greens? | Radko, A.M. | 1985. Mar/Apr 23(2):26-28. |
| Who Said, "The Grass is Always Greener . . ." | Snow, James T. | 1985. Jan/Feb 23(1):1-4. |
| Bent or Bermuda Greens? A Tough Decision for the Southern Superintendent | Moore, James F. | 1985. Jan/Feb 23(1):5-6. |
| The Secrets of Championship Greens Revealed | Hawes, Douglas T. | 1984. Nov/Dec 22(6):1-4. |
| A Rolling Stone . . . and Healthy Turf [moss control] | Snow, James T. | 1984. Nov/Dec 22(6):7-9. |

GOLF GREENS (continued)**GOLF GREEN MANAGEMENT (continued)**

- Why Don't the Greens Hold?
Should You Change From Triplex Green Mowers to Walking Green Mowers?
Nursery Rhymes [turfgrass nurseries]
For Good Golf and Good Turf — Use Less Water
Overseeding Bentgrass Greens - Is It Worth It?
Early Spring Greenup — Don't Push It
The Problems of Puffiness in Putting Greens
Comparing Maintenance Costs: Bentgrass Versus Bermudagrass Greens
The Nature and Control of Decline and Dying-Out of Toronto C-15 Bentgrass — A Progress Report
Management for Better Roots
The Toronto C-15 Bentgrass Syndrome
Overseeding Bermudagrass Greens
Grooming Greens for Play
Fertility — Using Lower Levels of Nitrogen
The Triplex "Ring"
The Economy and Course Playing Quality
The Changing Scene
Putting Greens: Dealing With Snow and Ice Accumulations
Putting Green Complex
Putting Greens — Grooming the Surface
Putting Greens — The Height of Cut
- Penneagle Creeping Bentgrass
When All Else Fails — Use Proven Guidelines
"Three Years of Experience with a USGA Green"
- Buchanan, William G. 1984. July/Aug 22(4):1-5.
Randquist, Robert 1983. Nov/Dec 21(6):5-7.
- White, Charles B. 1983. Sept/Oct 21(5):8-10.
Zoller, John A. 1983. Mar/Apr 21(2):22-24.
Silva, Brian 1982. Sept/Oct 20(5):12-13.
Snow, James T. 1982. May/June 20(3):6-8.
Engel, Ralph 1982. May/June 20(3):9-10.
Davis, Mike 1982. Jan/Feb 20(1):5-7.
- Couch, H. B. 1981. Nov/Dec 19(6):4-7.
- Hawes, Douglas T. 1981. Nov/Dec 19(6):8-9.
Radko, Alexander M. 1981. July/Aug 19(4):8.
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Ansett, Timothy G. 1981. Mar/Apr 19(2):26-27.
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TOPDRESSING

- Working the Topdressing In and Rolling Greens Revisited
Topdressing of a Different Color
Sanding and Sweeping
The One-Man Topdressing Operation
The Agronomics of Sand in Construction and Topdressing
Topdressing Operations That Vibrate
From the Worm's Eye View — Topdressing
The Soils Controversy — Mixes for Green Construction and Topdressing
Putting Green Responses to Sand and Sand/Soil Topdressing
- Topdressing
Topdressing Putting Greens: A Panel Discussion
- Topdressing Mixtures — The Green Section's Position
Prepare Your Own Topdressing
- Foy, John H. 1991. Mar/Apr 29(2):3-4.
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It's Time We Put the Green Back in Green Speed
Measuring Green Speed on Sloped Putting Greens
Say No to Posting [green speed]
Rolling Out the Ups and Downs of Green Speed
Food for Thought — Regarding Fast Greens
Some (More) Thoughts on Putting Green Speed
The Stimpmeter — A Perspective
How It All Began
A New Turf Menace
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The Stimpmeter — A Management Tool	O'Brien, Patrick M.	1981. Mar/Apr 19(2):28-29.
A Study of Putting Green Variability	Radko, A. M., R. E. Engel, & J. R. Trout	1981. Jan/Feb 19(1):9-13.
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**WARM-SEASON GRASSES**

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A History of Turf Research at Tifton	Burton, Glenn W.	1991. May/June 29(3):12-14.
An Old Grass is Getting a New Look	Riordan, Terry	1991. Jan/Feb 29(1):6-9.
Controlling the Battle of Bermudagrass	Foy, John H.	1990. Nov/Dec 28(6):13-16.
Encroachment of Bermudagrass Into Bentgrass Greens	Johnson, B. J. & R. N. Carrow	1989. Nov/Dec 27(6):9-12.
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NuMex Sahara — A New Seed-Propagated Bermudagrass	Baltensperger, Arden	1989. Jan/Feb 27(1):5-6.
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Bentgrass or Bermudagrass Greens — What Is Right for Florida?	Foy, John H.	1988. Jan/Feb 26(1):1-5.
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GRASSES (continued)

WARM-SEASON GRASSES (continued)

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Bermudagrass and Bentgrass — Draw the Line!	White, Charles B.	1981. Sept/Oct 19(5):8-9.
Zoysiagrass Establishment From Seed	Portz, Herbert L.	1981. Sept/Oct 19(5):10-13.
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Spring Deadspot of Bermudagrass	Lucas, Leon T.	1980. May/June 18(3):4-6.
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A Selective Annual Bluegrass Control — Finally!	Branham, B. E.	1990. Jan/ Feb 28(1):6-8.
Consider <i>Poa annua</i> for Your New Green	Vermeulen, Paul	1989. Sept/ Oct 27(5):17.
The Six Seasonal Stages of Bentgrass Nitrogen Fertilization	Engel, Ralph E.	1988. July/Aug 26(4):10-12.
Bentgrass or Bermudagrass Greens — What is Right for Florida?	Foy, John H.	1988. Jan/ Feb 26(1):1-5.
The Continuing Saga of <i>Poa annua</i>	Zontek, Stanley J.	1987. May/ June 25(3):1-5.
Bent/ <i>Poa</i> Roughs . . . Another Look	Byers, Richard P.	1986. Sept/ Oct 24(5):8-10.
Use of Fenarimol for Selectively Controlling <i>Poa annua</i> in an Overseeded Bermudagrass Golf Green	Menn, Wallace G.	1986. Sept/ Oct 24(5):11-12.
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Pythium-Induced Root Dysfunction of Creeping Bentgrass on High Sand Content Greens	Hodges, Clinton F.	1985. Sept/ Oct 23(5):11-13.
Bent or Bermuda Greens? A Tough Decision for the Southern Superintendent	Moore, James F.	1985. Jan/ Feb 23(1):5-6.
Turfgrass Competition: It's a Jungle Out There!	Brede, A. Douglas	1985. Jan/ Feb 23(1):8-11.
Lolium-Folium: Perennial Ryegrasses are Getting Better!	Zontek, Stanley J.	1984. May/ June 22(3):1-6.
Growth of Bentgrass as Affected by Nitrogen, Soil pH and Age of Stand	Pepper, Ian L. & W. R. Kneebone	1984. May/ June 22(3):10-12.
Parasitic Nematode Found in Annual Bluegrass Greens	Costello, Larry	1983. Jan/ Feb 21(1):9-11.
Some Ideas for Easing the Southern Transition Blues	Hawes, Douglas T.	1982. Nov/ Dec 20(6):1-3.
Bent- <i>Poa</i> Roughs . . . A Modern Dilemma	Snow, James T.	1982. Nov/ Dec 20(6):6-8.
Overseeding Bentgrass Greens — Is It Worth It?	Silva, Brian	1982. Sept/ Oct 20(5):12-13.
Recent Turfgrass Plant Explorations in Africa	Beard, James B. & J. R. Watson	1982. July/Aug 20(4):6-8.
Something Better in Grasses	Snow, James T.	1982. Mar/Apr 20(2):6-9.
The Nature and Control of Decline and Dying-Out of Toronto C-15 Bentgrass - A Progress Report	Couch, H.B.	1981. Nov/ Dec 19(6):4-7.
Cool-Season/ Warm-Season Turfgrass Management in the Transition Zone	Mazur, A. R.	1981. Nov/ Dec 19(6):10-12.
Bermudagrass and Bentgrass — Draw the Line!	White, Charles B.	1981. Sept/ Oct 19(5):8-9.
Bentgrass Fairways . . . Why Not?	O'Brien, Patrick M.	1981. July/Aug 19(4):1-3.
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Penneagle Creeping Bentgrass	Duich, J. M.	1979. July/Aug 17(4):8-10.
Leaf Blight and Crown Rot of Toronto Creeping Bentgrass	Larsen, Philip O.	1979. May/ June 17(3):5-7.
Color Variances in Turfgrasses	Radko, Alexander M.	1979. Mar/Apr 17(2):16-17.
Irrigation Affects Species Predominance	Snow, James T.	1979. Mar/Apr 17(2):21-22.
Disease Resistance and Quality of Bentgrasses in Washington State	Gould, C. J., R. L. Goss, A. G. Law & B. Ashworth	1978. Sept/ Oct 16(5):5-11.
The Search for Better Grasses	Youngner, Victor B.	1978. Mar/Apr 16(2):15-19.
<i>Poa annua</i> — It Won't Go Away!	Goss, Roy L.	1978. Mar/Apr 16(2):26-29.

A group of seven men are gathered on a golf course. One man, wearing a white polo shirt and dark trousers, is kneeling on the grass near a sand trap. He is gesturing with his hands as if explaining something. The other six men are standing around him, watching. They are dressed in typical golf attire, including polo shirts, sweaters, and trousers. A shovel is stuck upright in the sand trap. The background shows a line of trees and a grassy field.

- 14 USGA GREEN SECTION RECORD

GREEN SECTION INFORMATION & AWARDS (continued)

Remarks by USGA President Frank D. Tatum, Jr.	Tatum, Frank D.	1980. Mar/Apr 18(2):3.
Arthur A. Snyder, 19th Recipient of USGA Green Section Award	Anonymous	1979. Mar/Apr 17(2):1.
Golf Course Maintenance and Management — The USGA's Role	Radko, Alexander M.	1978. Sept/Oct 16(5):1-4.
Where Do We Go From Here?	Anonymous	1978. May/June 16(3):9-10.
Dr. Jesse A. DeFrance, 18th Recipient of USGA Green Section Award	Anonymous	1978. Mar/Apr 16(2):1.
Edward F. Casey, 17th Recipient of USGA Green Section Award	Anonymous	1977. Mar/Apr 15(2):1.

IRRIGATION



Winged Foot Golf Club, New York

Another Look - Turf and Salinity	Horst, Garald	1991. July/Aug 29(4):11-13.
Winter Water Wagons Minimize Dakota Desiccation	Latham, James M.	1991. Mar/Apr 29(2):17.
Protecting Pumps and Tees	Moraghan, Tim	1991. Mar/Apr 29(2):19-20.
Save Water — Automatically!	Moore, James F.	1991. Mar/Apr 29(2):20-21.
Sprinkler Uniformity Evaluation	Vermeulen, Paul	1991. Mar/Apr 29(2):30.
Sometimes Successful Agronomy Means Starting Over	Vermeulen, Paul	1989. July/Aug 27(4):1-4.
Water for Golf Course Use: The Next 20 Years and Beyond	Meyer, J. L.	1989. May/June 27(3):15-16.
Pumping and Coring	Moore, James F.	1989. Mar/Apr 27(2):34-35.
Improve Your Timing	O'Brien, Patrick M.	1989. Mar/Apr 27(2):36.
Putting the Water Puzzle Together	O'Brien, Patrick M. & E. A. Brown	1989. Jan/Feb 27(1):1-4.
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'Hi Tech' Can't Replace 'Common Sense'	Moore, James F.	1988. Mar/Apr 26(2):4.
You Can Grow Better Turf — With Less Frequent Watering	Miller, Edward J.	1988. Mar/Apr 26(2):11-12.
1987: The Season in Review	Zontek, S. J., J. T. Snow, G. A. Watschke, J. M. Latham, P. M. O'Brien, J. H. Foy, J. F. Moore & L. W. Gilhuly	1987. Nov/Dec 25(6):7-12.
Answering the Most-Asked Questions About the Golf Course Pump Station	McLain, Keith	1987. Sept/Oct 25(5):10-13.
Managing Anaerobic Soils	Goss, Roy L.	1987. July/Aug 25(4):12-13.
Seeing the Unseen	Foy, John H.	1987. Mar/Apr 25(2):5.
So You Think You Understand Automatic Irrigation	Wagoner, Clifford A.	1987. Mar/Apr 25(2):6.
The C-S-T-M Factor [common sense turf management]	Zontek, Stanley J.	1987. Mar/Apr 25(2):24-25.
A Supplemental Irrigation System for Putting Greens	O'Brien, Patrick M.	1987. Mar/Apr 25(2):34.
Southeastern Region [season in review]	White, Charles B. & J. H. Foy	1986. Nov/Dec 24(6):11-12.
Can We Cope With Salty Water?	Peacock, Charles H.	1986. July/Aug 24(4):6-7.
Ideas — Philosophical and Practical	Moore, James F.	1986. Mar/Apr 24(2):31.
Selling An Irrigation System	Walsh, Ed	1985. July/Aug 23(4):7-9.
Drought Emergency Planning: Philadelphia Association of Golf Course Superintendents Responds	Smith, Michael R.	1985. May/June 23(3):11-13.
Irrigation - How Much is Too Much?	Snow, James T.	1983. July/Aug 21(4):6-8.
For Good Golf and Good Turf — Use Less Water	Zoller, John A.	1983. Mar/Apr 21(2):22-24.
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| Water, Water, Everywhere? | O'Brien, Patrick M. | 1982. Mar/Apr 20(2):4-5. |
| Salt Injury — An Increasing Problem | Hoos, Donald D. | 1981. Nov/Dec 19(6):1-3. |
| Technological Considerations for Automatic Irrigation | Hawes, Douglas T. | 1981. July/Aug 19(4):4-7. |
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| Water Use and Energy Conservation | White, Charles B. | 1981. Mar/Apr 19(2):29. |
| The Changing Scene | Anonymous | 1980. May/June 18(3):A10-A11. |
| Fertigation | Sincerbeau, Scott A. | 1979. May/June 17(3):10-12. |
| Questionnaire on Recycled Water | Anonymous | 1979. May/June 17(3):13. |
| Water — U.S.A. | Watson, J. R. | 1979. Mar/Apr 17(2):2-4. |
| Water and Turfgrass Growth | Spomer, L. Art | 1979. Mar/Apr 17(2):5-7. |
| Maximum Use of Land Sites — Emphasis Water Management | Jones, Rees L. | 1979. Mar/Apr 17(2):8-10. |
| Water Management | Cleaver, George W. | 1979. Mar/Apr 17(2):14-15. |
| Irrigation Affects Species Predominance | Snow, James T. | 1979. Mar/Apr 17(2):21-22. |
| Water Effects on Turfgrass Wear | Schwartzkopf, Carl H. | 1979. Mar/Apr 17(2):23-24. |
| Irrigation Affects Budget | Hoos, Donald D. | 1979. Mar/Apr 17(2):25-27. |
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| Current Review of Sewage Effluent for Irrigation Use | Dudeck, A. E. | 1978. July/Aug 16(4):5-9. |
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J. Rhodenbaugh,
J. Zoller, E. Horton
& W. Brewer | 1978. Mar/Apr 16(2):22-25. |
| Water Conservation at Oakland Hills Country Club | Woehrle, Ted W. | 1978. Jan/Feb 16(1):6. |
| The Drought in Northern California | Jagur, Jack | 1977. July/Aug 15(4):13. |
| Irrigation — A Most Important Key on Your Success Chain | Bengeyfield, W. H. | 1977. May/June 15(3):1-3. |
| Some Agronomic Aspects of Turf Fertigation | Snyder, G. H. &
E. O. Burt | 1977. May/June 15(3):10-12. |
| Great Golf Courses of America — Their Irrigation Systems
[panel discussion] | Flaherty, J. R.,
C. E. Gipson &
S. J. Zontek | 1977. Mar/Apr 15(2):20-22. |

PEST CONTROL

**DISEASE**

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| The Season in Review | Zontek, S. J.,
J. T. Snow,
G. A. Watschke,
J. M. Latham,
P. M. O'Brien,
J. H. Foy, J. F. Moore
& L. W. Gilhuly | 1987. Sept/Oct 25(6):7-12. |
| Seeing the Unseen | Foy, John H. | 1987. Mar/Apr 25(2):5. |
| Mid-Atlantic Region [season in review] | Zontek, Stanley J. | 1986. Nov/Dec 24(6):8. |
| Northeast Region [season in review] | Snow, James T. &
G. A. Watschke | 1986. Nov/Dec 24(6):9-10. |

PEST CONTROL (continued)

DISEASE (continued)

Pythium-Induced Root Dysfunction of Creeping Bentgrass on High Sand Content Greens	Hodges, Clinton F.	1985. Sept/Oct 23(5):11-13.
Recent Insights on the Nature and Control of Corticium Red Thread	Couch, Houston B.	1983. Nov/Dec 21(6):8-11.
I've Never Seen THAT Before! <i>Sclerotium rolfsii</i> Blight on Golf Greens	Unruh, Tom & Z. Punja	1982. Jan/Feb 20(1):8-10.
The Nature and Control of Decline and Dying-Out of Toronto C-15 Bentgrass - A Progress Report	Couch, H. B.	1981. Nov/Dec 19(6):4-7.
Spring Deadspot of Bermudagrass	Lucas, Leon T.	1980. May/June 18(3):4-6.
Leaf Blight and Crown Rot of Toronto Creeping Bentgrass	Larsen, Philip O.	1979. May/June 17(3):5-7.
Disease Resistance and Quality of Bentgrasses in Washington State	Gould, C. J., R. L. Goss, A. G. Law & B. Ashworth	1978. Jan/Feb 16(1):7-10.
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INSECTS & NEMATODES

Beneficial Turfgrass Invertebrates	Vavrek, Robert C.	1990. Nov/Dec 28(6):7-9.
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The Nematode Problem in New England	Swier, Stanley R.	1987. July/Aug 25(4):4-6.
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Parasitic Nematode Found in Annual Bluegrass Greens	Costello, Larry	1983. Jan/Feb 21(1):9-11.
The Bermudagrass Stunt Mite	Reinert, James A.	1982. Nov/Dec 20(6):9-12.
Creeping Bentgrass & Sod Webworm Larvae	Kneebone, W. R.	1977. Jan/Feb 15(1):12-13.

WEEDS

Hoelon — A New Tool for Goosegrass Control	McCarty, L. B.	1990. May/June 28(3):8-9.
A Selective Annual Bluegrass Control — Finally!	Branham, B. E.	1990. Jan/Feb 28(1):6-8.
Use of Fenarimol for Selectively Controlling <i>Poa annua</i> in an Overseeded Bermudagrass Golf Green	Menn, Wallace G.	1986. Sept/Oct 24(5):11-12.
Encroachment of Bermudagrass into Bentgrass Greens	Johnson, B. J. & R. N. Carrow	1989. Nov/Dec 27(6):9-12.
A Rolling Stone . . . and Healthy Turf [moss control]	Snow, James T.	1984. Nov/Dec 22(6):7-9.
Those Irrepressible, Incredible, Impossible Grassy Weeds!	Batten, Steve M.	1984. Sept/Oct 22(5):1-4.
Growth Regulators — New Tools For the '80s	Batten, Steve M.	1983. May/June 21(3):1-3.
Herbicide Approach for Weeds	Johnson, B. J.	1979. Jan/Feb 17(1):6-10.
Goosegrass	Moncrief, James B.	1978. Sept/Oct 16(5):12-13.

INTEGRATED, ALTERNATIVE AND OTHER

Monitoring for Improved Golf Course Pest Management Results	Skorulski, James E.	1991. Sept/Oct 29(5):1-5.
Encroachment of Bermudagrass Into Bentgrass Greens	Johnson, B. J. & R. N. Carrow	1989. Nov/Dec 27(6):9-12.
Gassing and Regrassing	Walker, Tom	1989. July/Aug 27(4):10-12.
Integrated Pest Management — A Different Approach for the Same Old Problems	Foy, John H.	1988. Sept/Oct 26(5):9-11.
Seeing the Unseen	Foy, John H.	1987. Mar/Apr 25(5):5.
Porcupine Damage?	Stroike, Leon	1984. Jan/Feb 22(1):9.
Growth Regulators — New Tools for the '80s?	Batten, Steve M.	1983. May/June 21(3):1-3.
The Purple Martin	O'Kelly, James S.	1980. May/June 18(3):10-11.
Golf Course Aviary and Animal Problems	Schwartzkopf, Carl H.	1979. July/Aug 17(4):5-7.

PONDS



Medinah Country Club, Illinois

Pond Vegetation from a Positive Perspective

A Different Look at IPM

Banking On Beauty

Tiny Bubbles Keep Small Ponds Alive

Limestone and Algae Control at Bill Bryant Lake

Gabions — Their Applications on the Golf Course

Avoiding the Ugly Pond

Maximum Use of Land Sites — Emphasis Water Management

Sadlon, Nancy P.

Connolly, James

Snow, James T.

Latham, James M.

Gaylord, Robert P.

Drew, John

Ansett, Timothy G.

Jones, Rees L.

1991. Sept/Oct 29(5):15-16.

1990. Sept/Oct 28(5):1-6.

1988. Mar/Apr 26(2):2-3.

1988. Mar/Apr 26(2):36-37.

1984. Jan/Feb 22(1):10-12.

1982. Sept/Oct 20(5):9-11.

1982. Jan/Feb 20(1):1-4.

1979. Mar/Apr 17(2):8-10.

RESEARCH



A History of Turf Research at Tifton

The USGA's Environmental Program

An Old Grass is Getting a New Look

Measuring Green Speed on Sloped Putting Greens

Comparing Hollow- and Solid-Tine Cultivation

Hoelon — A New Tool for Goosegrass Control

Heat Shock Protein Synthesis in Turfgrass

A Selective Annual Bluegrass Control — Finally!

Maintaining Adequate Phosphorus Levels in Sand Greens

Encroachment of Bermudagrass into Bentgrass Greens

New Zealand . . . The Grass Capital

Does Fertilizer/Pesticide Use on a Golf Course Put

Water Resources in Peril?

Burton, Glenn W.

Snow, James T.

Riordan, Terry

Brede, A. Douglas

Murphy, J. A. &

P. E. Rieke

McCarty, L. B.

DiMascio, J. &

K. Danneberger

Branham, B. E.

Rieke, Paul E.

Johnson, B. J. &

R. N. Carrow

Krans, Jeffrey V.

Watschke, T. L.,

S. Harrison &

G. W. Hamilton

1991. May/June 29(3):12-14.

1991. Mar/Apr 29(2):11-13.

1991. Jan/Feb 29(1):6-9.

1990. Nov/Dec 28(6):10-12.

1990. Sept/Oct 28(5):7-10.

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1990. Jan/Feb 28(1):6-8.

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SAND BUNKERS



Poppy Hills Golf Course, California

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TEES

Just One More Little Crisis
Protecting Pumps and Tees
Tee Construction with Laser Technology
Using Your Head and the Golfers' Feet for Better Grass on Small Tees
"Home On the Range"
Wee Tees
Dealing With Divots
Nursery Rhymes [turfgrass nurseries]
Tee Markers Can Be Distinctive
Practice Ranges — Are They Neglected?
The Changing Scene
Tee Alignment: Don't Overlook It

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TRAFFIC

Learning to Live with Golf Cart Traffic
Reducing Traffic Wear
Curbing Those Carts
Artificial Surfaces for the Golf Course
Politics, Religion, and Winter Play on Greens
Should Carts Ride the Fairways?
Chips 'n' Dips
Oh Traffic: Oh Clippings: Oh Stumps!
Golf Shoes and Turf Wear — A Story That Won't Go Away!
Golf Shoe Study II

The Winter Golfers Cometh
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Bruised, Battered, and Bare
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TREES & LANDSCAPE



Cypress Point Club, California

Modern Tree Management Techniques for Today's Turf Manager

Finding Solutions for Poorly Drained Greens
Ten Timely Tips to Avoid Tree Troubles
The Aftermath of a Hurricane
Sometimes Mother Nature Needs a Little Help
Using Native Plants in the Golf Course Landscape

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TURF TWISTERS

DURING THE WINTER

Question: During the winter, many sprinkler heads on my golf course become lifted out of the ground due to frost heaving. It seems to be the same ones each year. I have tried back-filling around the head with sand, but that hasn't helped. Do you have any alternatives? (Maine)

Answer: Try covering each sprinkler head with one or two bales of hay. The hay helps insulate the soil and prevents heaving.

WORN HOLES

Question: I get a lot of pressure from our winter golfers (especially on weekends) to start play before the frost is off the greens. As if that isn't enough, I'm not allowed to establish temporary greens, and by spring the greens are very worn around the holes and are often rough and slow to recover. What can I do to get the golfers on the course more quickly in the morning, and what kind of measures can be taken to prevent the area around the holes from becoming worn from winter play? (Wisconsin)

Answer: Short of buying them a ticket to Florida, consider using geotextile covers for the first four or five greens (and perhaps a few shaded greens). By putting the covers on the evening before a heavy frost is predicted, you can prevent the frost from setting up on the greens. By the time the players get around to number five, the frost will probably have melted on the remaining greens.

As far as protecting the turfgrass itself, take a lesson from the folks out west. The greens are topdressed rather heavily *after* snowmold-preventing fungicides are applied in the late fall. To some degree, this provides protection to the crown or growing point of the turfgrass plant. At the Laurel Country Club (Laurel, Montana), no play is permitted when the putting surfaces are softened by a thaw, to prevent footprinting and damage to the turf. Their unique "kicker" is banning the use of spiked shoes for winter play. Wear around the holes is practically non-existent. Winter watering on warm days (over 32° F) also helps minimize desiccation during snowless periods.

NEED RELIEF

Question: After changing cup positions on the greens, scalping damage sometimes occurs on the plugs used to fill the previous day's hole. Scalping is particularly troublesome when the plugs swell after we irrigate the greens. To prevent this type of injury, I have instructed my employees to place the plugs slightly below the putting surface. This solution creates another problem, however, as the members insist they cannot gain relief. Is this true? (Arizona)

Answer: Yes. Rule 16-1c applies.