Southeastern Turfgrass Conference

HOME SUPPORTERS PRESENTATIONS PROGRAMS

Click Here to Register for the 2016 Conference!

www.turfconf.com

ATTENTION: FARMERS

FARM BUSINESS, FINANCIAL AND PROPERTY PLANNING SESSIONS DURING THE 70TH ANNUAL SOUTHEASTERN TURFGRASS CONFERENCE

This year the conference is offering a morning session covering a variety of topics on business, financia and property planning in addition to an update on the newest developments in turf and ornamenta cultures and their management during the affermone deterional session.



www.turfconf.com



Progress at the University of Georgia's Tifton Turfgrass Breeding Program April 26th, 2016

Brian Schwartz

University of Georgia tifturf@uga.edu

www.turfconf.com

Southeastern Turfgrass Conference

WHY CONDUCT TURF RESEARCH?

No field of agricultural research has been so completely neglected as the field of Turf Research. We are confronted daily with a multitude of turf problems for which we have no definite solution. Research can provide answers for most of these questions. We need better strains and varieties of turfgrasses. Grass breeding research can develop them. Turf research offers the best route to "Better Turf".

THE SOUTHEASTERN TURF RESEARCH PROGRAM

Since 1936, the U.S. Department of Agriculture, in cooperation with the Georgia Coastal Plain Experiment Station, has been conducting at Tifton, Georgia, an extensive grass breeding research program designed to solve some of the Southeastern pasture problems. Some of the findings of this research have been applicable to turf problems but most of them have not. Beginning in the fall of 1946, a cooperative turf research program was begun at Tifton, Georgia, under the stimulus of Dr. F. V. Grau. Starting in a very modest way with a lew hundred dollars contributed by the U.S.G.A. Green Section and a number of Southern Golf Clubs and Associations it was possible for B. P. Robinson to begin work on the project as a graduate student in January, 1948.

Space will not permit the listing of all the companies and organizations whose grants have made possible the turf work conducted at Tifton. To all of them, our very sincere thanks. We would also gratefully acknowledge the services of Dr. Homer D. Wells, other Georgia Coastal Plain Experiment Station Staff members, and all the boys who have worked on this project through the years. We are particularly grateful to Mr. James B. Monrief, Southeastern Agronomist, U.S.G.A. Green Section, for his counsel in connection with our turf research and for his assistance in developing this Conference program. We like to think of "Monty" as a member of our turf research team.

We are currently using graduate students to help carry out our turf research work. The plan requires two men to work full time during the summer and to attend the University in alternate quarters. This gives us the equivalent of one man year around and an additional man during the summer, It enables them to complete their Master's degrees in two years and trains men for this field. Jack Hearn, who obtained his Master's degree with us and his Ph. D. at Texas A & M, is now a USDA cirrus breeder at Orlando, Florida. Elwyn Deal, who completed his Ph. D. at TVPI and is now employed by Eli Lilly. Clarence Lance, with a Ph. D. from Auburn, is employed in Arizona and Earl Elaner, who obtained his Ph. D. at the University of Illinois, will be back on the University of Goergia staff, in Athens. Troy Johnson is working on his Ph. D. at VPI, Willad Lance will be doing our turf research this summer.

Any suggestions that you may offer which will add to the effectiveness of our program will be gratefully accepted,

> Glenn W; Burton, Research Geneticist U.S.D.A. and Georgia Coastal Plain Experiment Station, Tifton, Georgia



× 00000000000000000000000000000000000

TIFTON, GEORGIA

April 14-16, 1969

Sponsored by

UNIVERSITY OF GEORGIA COASTAL PLAIN EXPERIMENT STATION

In cooperation with

ABRAHAM BALDWIN AGRICULTURAL COLLEGE

UNITED STATES GOLF ASSOCIATION GREEN SECTION

and

SOUTHERN GOLF ASSOCIATION



E0000000000000000000000000000000

MONDAY, APRIL 14, 1969

0

10:30 A.M.- REGISTRATION-Georgia Coastal Plain Experiment Station Tuff Plots, Registration fee: \$12.00 (includes Banquet, Tuesday luncheon, and Proceedings).

1:30 P.M.-WELCOME-Dr. Frank P. King, Director of Georgia Coastal Plain Experiment Station,

Examination of turf experiments.

- 3:15 P.M.- DEMONSTRATION of turf equipment-Tift County High School football field.
- 7:30 P.M.- BANQUET-Abraham Baldwin College Dining Hall,

ADDRESS-Dr. Gene C. Nutter, Editor, TURF-GRASS TIMES, Jacksonville Beach, Florida.

TUESDAY, APRIL 15, 1969

MEETING PLACE-Rural Life Building, Abraham Baldwin College.

- 8:55 A.M.- WELCOME-Mr. Tom M. Cordell, Academic Dean, Abraham Baldwin Agricultural College, Tifton, Georgia.
- 9:00 A.M.- FACTORS THAT INFLUENCE GRASS GROWTH-Dr, R. H. Brown, University of Georgia, Athens, Georgia,
- 9:45 A.M.- GRASSES FOR THE GOLF COURSE-Panel Discussion, Moderator: Dr. G. W. Burton, Coastal Plain Experiment Station, Tifton, Georgia.

10:30 A.M.- RECESS

- 10:50 A.M.- MANAGING AND FERTILIZING THE SOIL TO MEET THE NEEDS OF THE GRASS AND THE GAME-M. Charles Wilson, Milwaukee Sewerage Commission, Milwaukee, Wisconsin.
- 11:20 A.M.- Discussion.
- 11:35 A.M.- PROPER USE OF WATER ON TURF-Mr. Tom Mascaro, West Point Products Corporation, West Point, Pennsylvania.
- 12:05 A.M.- Discussion.
- 12:30 P.M.- LUNCH-Abraham Baldwin College Dining Hall.
- 1:45 P.M.- WEED CONTROL IN TURF-Dr. E. O. Burt, Plantation Field Laboratory, Fort Lauderdale, Florida.

2:15 D.M.- Discussion.

:30 P.M.- EFFECTIVE MOWING TECHNIQUES-Dr. Jim Watson, Jr., Toro Manufacturing Company, Minneapolis, Minnesota.

3:00 P.M .- Discussion.

3:30 P.M.- RECESS.

3:50 P.M.- DISEASE AND PEST CONTROL-Panel Discussion, Moderator: Dr. Homer D. Wells, Coastal Plain Experiment Station, Tifton, Georgia.

4:30 P.M.- ADIOURN

WEDNESDAY, APRIL 16, 1969

9:00 A.M.- ARTIFICIAL TURF-Mr. James M. Faria, Marketing Specialist, Monsanto Company Atlanta, Georgia.

9:30 A.M .- Discussion.

9:45 A.M.- MANPOWER ON THE MOVE-Panel Discussion, Moderator: Mr. James B. Moncrief, USGA Green Section, Athens, Georgia,

10:30 A.M.- RECESS.

10:45 A.M.- QUIZ THE "EXPERTS"-They will try to answer your questions.

12 Noon - ADJOURN.

PLEASE NOTE!-You must return the enclosed reservation card if you want to attend the Turfgrass Banquet on April 14, Plates are limited to 200 and costs are so high that we can provide only for those who return the reservation card.

Due to some confusion at past Conferences, it is requested that you write direct for room reservations in Tifton. Given below are some of the places in Tifton where you might stay. It is suggested that these reservations be made as far in advance as possible. Should there be any difficulty in securing a place to stay, contact Dr. Glenn W. Burton, Georgia Coastal Plain Experiment Station, Tifton, Georgia

Carson Motel, Hwy. 82 West, Ph. 382-3111. Danny Ross Motor Court, Hwy. 41 N., Ph. 382-4085. Davis Brothers Motor Lodge, Interstate 75, Ph. 382-7210.

Holiday Inn, Interstate 75, Ph. 382-6687. Howard Johnson's Motor Lodge, Hwy. 41 N., Ph. 382-2650.

Lankford Manor, 401 Love Avenue, Ph. 382-9172. Lamplighter Motel, Hwy. 41 N., Ph. 382-6565. Quality Courts Motel, Albany Hwy., Ph. 382-1221. Skyline Motel, Hwy, 41 S., Ph. 382-9190. The Petite Motel, W. 12th St., Ph. 382-6170. Titus Motor Lodge, 1021 Love Ave., Ph. 382-3890. Town Terrace Motel, W. 12th St., Ph. 382-4466. Wilton Hotel, Love Ave., Ph. 382-9186.

WHY HOLD A TURF CONFERENCE?

The purpose of this Turf Conference, the twentythird of its kind for this area, may be effectively stated in two words, These words are "Better Turf" for the Southeastern United States. At this conference, we hope to bring you up to date with the new developments in the field of turf management.

www.turfconf.com

Southeastern Turfgrass Conference

THE SOUTHEASTERN TURF RESEARCH PROGRAM

Since 1936, the U.S. Department of Agriculture, in cooperation with the Georgia Coastal Plain Experiment Station, has been conducting at Tifton, Georgia, an extensive grass breeding research program designed to solve some of the Southeastern pasture problems. Some of the findings of this research have been applicable to turf problems, but most of them have not. Beginning in the fail of 1946, a cooperative turf research program was begun at Tifton, Georgia under the stimulus of Dr. F. V. Grau. Starting in a very modest way with a few hundred dollars contributed by the U.S.G.A. Green Section and a number of Southern Golf Clubs and Associations, it was possible for B, P. Robinson to begin work on the project as a graduate student in January, 1948.

Space will not permit the listing of all the companies and organizations whose grants have made possible the turf work. conducted at Trifton. To all of them, our very sincere thanks. We would also gratefully acknowledge the services of Dr. Homer D. Wells, Dr. William A. Johnson, and all the other personnel who have worked on this project through the years. We are particularly grateful to Mr. James B. Moncrief, Southern Director, U.S.G.A. Green Section for his assistance in developing this Conference program. We like to think of "Monty" as a member of our turf research team.

For a number of years we trained graduate students as they helped us carry out our turf research program. We can no longer expect graduate students to do their thesis research 200 Miles from the University where they take their course work. Thus our research must be conducted by our regular grass research staff. Although much of today's turf management is based on research first conducted at Titon, our greatest contribution to the Turfgrass Industry has been the Titon hybrid bermuda-grasses — Tifgreen, Tifway, and Tifdwart. We think they can be improved by plant breeding and are currently putting most of our finited resources into his effort.

Any suggestions that you may offer which will add to the effectiveness of our program will be gratefully accepted-

Glenn W. Burton, Research Geneticist U.S.D.A. AND Georgia Coastal Plain Experiment Station, Tifton, Georgia

THIRTIETH

ANNUAL SOUTHEASTERN

TURFGRASS CONFERENCE

TIFTON, GEORGIA

APRIL 12-13, 1976

"Managing Turf More Efficiently"

Sponsored by

UNIVERSITY OF GEORGIA COASTAL PLAIN EXPERIMENT STATION

in cooperation with

ABRAHAM BALDWIN AGRICULTURAL COLLEGE

UNITED STATES GOLF ASSOCIATION GREEN SECTION

SOUTHERN GOLF ASSOCIATION

AND

RURAL DEVELOPMENT CENTER



MEETING PLACE --- Georgia Coastal Plain Experiment Station Turf Plots

a

- 10:00 A. M. REGISTRATION Registration fee: \$20,00 (Includes banquet, Tuescay luncheon, and golf at Spring Hill Country Club, April 12).
- 11:00 A, M, WELCOME --- Dr. Broadus Browne, Director of Georgia Coastal Plain Experiment Station

Tour of Turf Research Plois

MEETING PLACE --- Spring Hill Country Club

 30 P.M. TURF EQUIPMENT DISPLAY —Practice Fairway, Mr. Ed Kincaid, Chairman; Mr. Gene Armstrong, Toro Distributing Co.; and Mr. Larry Evans, Lawn & Turf, Inc.

> SPRING HILL COUNTRY CLUB TURF MAN-AGEMENT PROGRAM - Mr. E. R. Jensen, Southern Turf Nurseries, Tifton, Georgia,

GOLF — Free to Turf Conference Registrants

7:30 P. M. BANQUET — Abraham Baldwin Agricultural College Dining Hall, "30 Years of Teamwork", Dr. Fred V. Grau, Executive Director, Pennsylvania Turfgrass Council, Inc., College Park, Maryland.

TUESDAY, APRIL 13, 1976

MEETING PLACE — Rural Development Center

8:55 A.M. WELCOME — Mr. Tom Cordell, Dean and Coordinator of Continuing Education, Abraham Baldwin College, Tifton, Georgia

> Chairman: Mr, James B, Moncrief, Southern Director, U. S. Golf Association Green Section, Athens, Georgga.

9:00 A.M. TURFGRASS MANAGEMENT AS A CAREER — Mr. Tommy Burten, Corol Bidge Country Club, F5 Lauderdale, Florida

Ft Lauderdale, Florid

30 A.M. EVOLUTION OF THE SOUTHEASTERN TURFGRASS INDUSTRY — Panel Moderator, Dr. Fred Grau; Mr. Tom Mascaro, Mr. T. M. Baumgardner, Mr. Ray Jensen, and Dr. William A. Meyer

10:30 A. M. BREAK

- 11:00 A. M. TRENDS, TODAY IN GOLF COURSE ECON-OMY -- Mr. Lawrence Smith, National Golf Foundation, Tampa, Florida
- 11.30 A.M. USGA AND ITS ROLE IN GOLF Mr. Thomas Meeks, U. S. Golf Association, Far Hills, New

00 P. M. BUILDING GOLF COURSES FOR GOOD TURF MANAGEMENT — Mr. Bill Requemore, Patten Seed and Turfgrass Company, Lakeland, Georgia

12:30 P. M. Lunch

Chairman: Mr. Gene Baston, Country Club of

Assistants Point of View: Mr. Mark Hampton

- 2:30 P.M. ROLE OF EQUIPMENT IN THE TURF INDUSTRY — Mr. Ned Brinkman, Jacobsen Manufacturing Co., Racine, Wisconsin
- 3:00 P.M. GREENSMOWERS TRIPLEX AFTER 10 YEARS — Panel Moderator, Mr. Tom Mascaro, Safe-T-Lawn, Inc., Miami, Florida
- 3:40 P.M. FUTURE OF PESTICIDES Mr. Stan Frederiksen, Mallinckrodt, Inc.; St. Louis, Missouri

PLEASE NOTE: — You must return the enclosed reservation card if you vani toattend the Turfgrass Banquet on April 12. Plates are limited to 200 and costs are sonight that we can provide only for those who return the assimution card.

Due to some contactor al pay Contevencia, it is negativited that you write directto the motel for room reservations all Titlon Gran below are some of the ploces in Titlon where you might stay. It is suggested that hence reservations be made as larin advance as provide. Sheek of there he any rolficitity in security a larger to stay contact Dr. Genn W. Burton, Georgia Cosstal Plan Experiment Station, Titlon, Georgia

Carson Molet, Hwy 82 W, Phone 382-3111 Davis Brothers Molor Lodge, 1006 W, 8th SL, Ph. 382 7210, Davis Jinn Molet Hwy 62 W, Phone 382-8100, Holdsy Inn, Interstate 75, Phone 382-6697 Howard Johnson J, Interstate 75 North, Phone 382-2650 Lamelpher Malet, 1864 U, S. Hwy, 41 N, Phone 382-2650 Dately Molet, Astary Hwy, Phone 382-210 Biston Molet, Astary Hwy, Phone 382-8190 The Pottle Molet, 311 W, 13th SL, Phone 382-8150 The Molet Astary Hwy, Phone 382-8150 The Molet, Astary Hwy, Phone 382-8150 The Molet, 311 W, 13th SL, Phone 382-8150 The Molet Astary Hwy, Phone 382-8155 Task Molet Lodge, 1021 Love Avenue, Phone 382-3890 Town Farace Molet, M, The Nether 382-4466 Travels Capiti Inn, Hwy 22 W, Phane 386-1515

THE PROGRAM

Thirty years ago we held our first Southeastern Turfgrass Conference at Tirton. Our objective was "Better Turf" for the Southeastern United States and the program was designed to achieve this objective. Golf course superintendents and people interested in turfgrass came from many states and helped to make the first conference a success. This they have continued to do. Those who can remember the kind of turf we had 30 years ago will agree that by working together we have come a long way. We still have problems and we believe that this conference can help you solve them.

Last year we developed a different program. It was so well received by those who attended that we are following the same format again. We will start early enough that you can register and examine our furf plots before funch. This will give you the atternoon at Spring Hill Country Club to inspect the turf equipment on the practice fairway and play a round of golf.

Spring Hill Country Club has been able to maintain a good golf course on an unusually low budget. We believe two of our hybrid bermudagrasses, Tildwarf on the greens and Tifway on the fairways and tees, properly managed, have helped to keep maintenance costs low. Ray Jensen will describe this management program. As you play the course, you can discover first hand what this management program has done.

At 7:30 p. m., you will have another of those delightful banquets at the ABAC Dining Hall. This year we have a special treat: Dr. Fred V. Grau, the man who is responsible for starting our turt research program at Titton will be our banquet speaker He has done more to organize turt conferences and stimulate the development of turt research in the United States than any one I know. You will not want to miss his banquet address "30 Years of Teamwork".

Registration Certificate

IMPROVED CROP VARIETIES

TIFGREEN BERMUDAGRASS (Reg. No. 5)

Developed by the GEORGIA AGRICULTURAL EXPERIMENT STATION

and

CROPS RESEARCH DIVISION, ARS, USDA

Accepted by the Committee on Varietal Standardization and Registration

American Society of Agronomy

Committee member

Agricultural Research Service

in

Outline for Today's Talk

• TifTuf

- Research Trials Supported By:
 - University of Georgia Research Foundation (UGARF)
 - United States Department of Agriculture Specialty Crop Research Initiative (USDA-SCRI)
 - Super-Sod (A Division of Patten Seed Company)
 - Georgia Seed Development (GSD)
 - Georgia Golf Environmental Foundation (GGEF)
 - Georgia Golf Course Superintendents Association (GGCSA)
 - United States Golf Association (USGA)
- New Hybrids
 - Zoysiagrass
 - Bermudagrass
 - Centipedegrass













December 21st 2015

State Party

attender an anna a the



Outline for Today's Talk

• TifTuf

- Research Trials Supported By:
 - University of Georgia Research Foundation (UGARF)
 - United States Department of Agriculture Specialty Crop Research Initiative (USDA-SCRI)
 - Super-Sod (A Division of Patten Seed Company)
 - Georgia Seed Development (GSD)
 - Georgia Golf Environmental Foundation (GGEF)
 - Georgia Golf Course Superintendents Association (GGCSA)
 - United States Golf Association (USGA)
- New Hybrids
 - Zoysiagrass
 - Bermudagrass
 - Centipedegrass

Paint "Trials"



Paint "Trials"



Paint "Trials"

1.0

Cer.

Daint "Trials"

Radiation "Trials"

RADIATION

CAUTI



RADIATION

PERSONNEL MONITORING REQUIRED

Radiation "Trials"

TW-72: A Potential New Bermudagrass For Golf Greens

A bermudagrass for golf greens that can be mowed at ¹/₈-inch may be released soon!

by DR. WAYNE W. HANNA

HERE HAS BEEN a growing concern about the existing hybrid bermudagrasses used for putting greens in the Southern portions of the United States. Historically, bermudagrass has been the dominant putting green turfgrass for Southern courses, given its superior heat, traffic, and disease tolerance. Tifgreen and Tifdwarf, released by Dr. Glenn Burton in 1956 and 1965, respectively, initially provided acceptable putting surfaces when Southern greens were mowed at 3/16inch or higher. But as demands on bermudagrass greens have increased in an effort to provide putting green quality comparable to bentgrass, problems with bermudagrass have become serious. Tifgreen won't hold up at mowing heights lower than 3/16-inch and is practically never used on greens in the Southeast today. Tifdwarf is the present industry standard, but this variety cannot tolerate today's lower mowing heights, demanded by golfers, for any extended period of time without decline. Mutation, contamination, and a lack of reliable planting stock also genotypes would lessen the threat of the industry not having a suitable grass to plant if either Tifgreen or Tifdwarf suddenly became susceptible to a pest. By focusing on the development of new dwarf varieties and protecting their purity through new tougher certification standards, better bermudagrass greens for golf would result.

Breeding Program Objectives

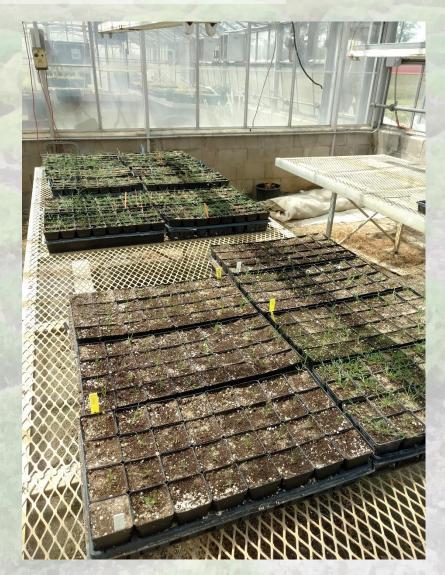
In the mid-1980s, a bermudagrass breeding program was started at the Tifton, Georgia, Experiment Station to develop a new dwarf bermudagrass that would maintain good putting green quality at a 1/8-inch (or less) cutting height. After considering the possibilities for developing such a puttinggreen bermudagrass, we arrived at three alternatives: 1) select or induce (with radiation) finer-textured types in Tifdwarf; 2) make new Cynodon transvaalensis x C. dactylon crosses to produce new triploid hybrids; or 3) induce fine-textured mutants in an established cultivar such as Tifway 2 (released in Tifway 2 with 7000 rads of gamma radiation. Sixty-five mutants were induced, 25 of which appeared more dwarf than Tifway 2. One of these, the most dwarf, we named TW-72.

Detailed Description of TW-72

TW-72 has several new agronomic qualities compared to Tifdwarf that should make it very popular with golfers and golf course superintendents. Although TW-72 has a lighter green color than Tifdwarf, it doesn't become as purple or red when nights become cool, since it lacks the red pigment of Tifdwarf. It produces a tighter and denser turf than Tifdwarf, especially at the 1/8-inch mowing height. Its close mowing tolerance produces a smoother, faster surface, and one with less algae growth. TW-72 had a Stimpmeter reading approximately 12 inches faster than Tifdwarf at The Landings Golf Club (Savannah, Georgia) test site last summer. At ¼-inch, there may be less difference in turf quality between TW-72 and Tifdwarf, but our recommendation will be to mow TW-72 at

Radiation "Trials"





Zoysiagrass - Georgia Selection

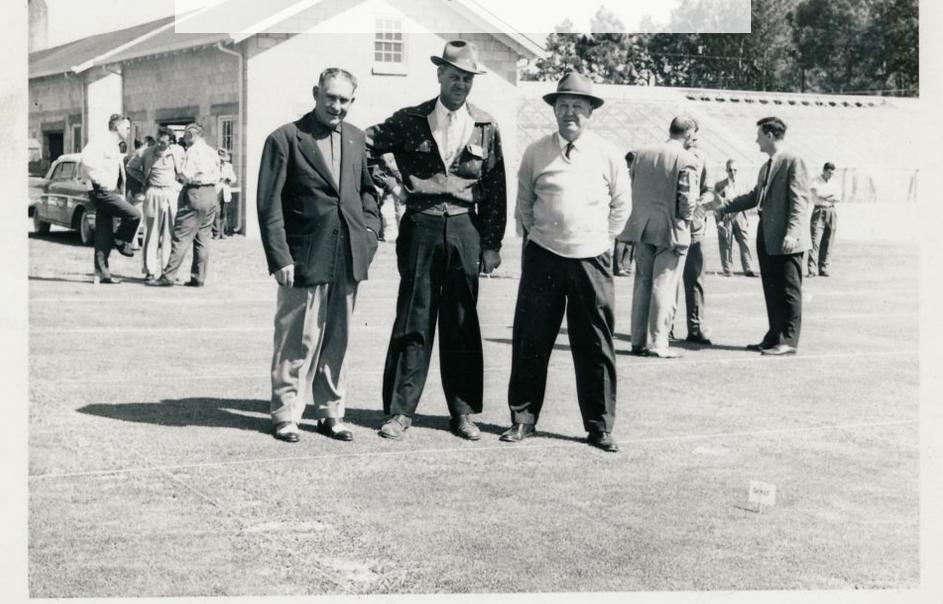


Outline for Today's Talk

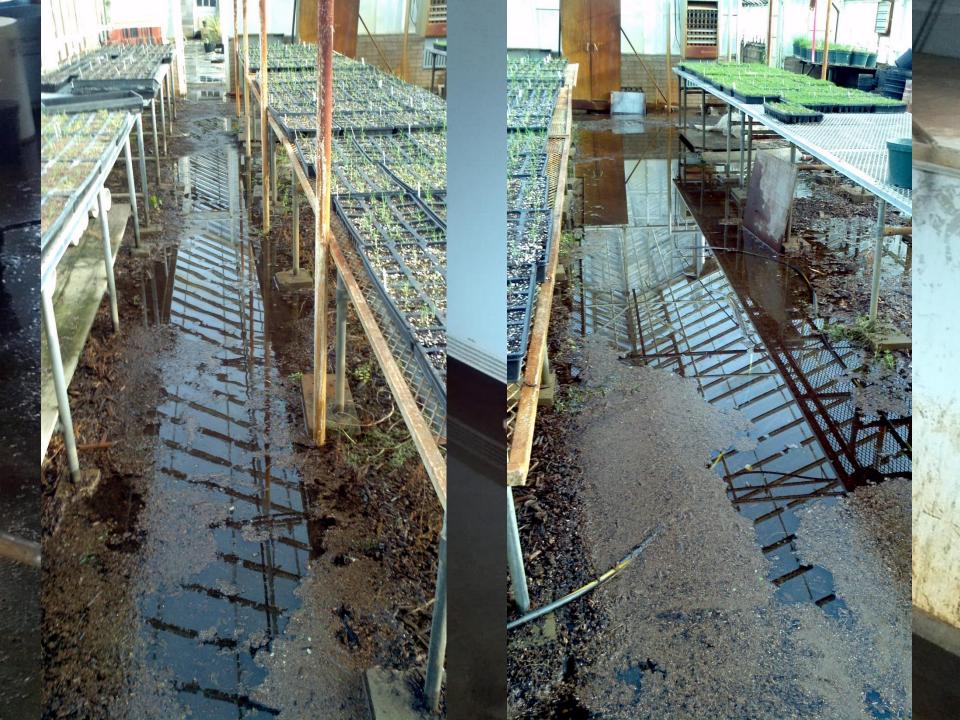
• TifTuf

- Research Trials Supported By:
 - University of Georgia Research Foundation (UGARF)
 - United States Department of Agriculture Specialty Crop Research Initiative (USDA-SCRI)
 - Super-Sod (A Division of Patten Seed Company)
 - Georgia Seed Development (GSD)
 - Georgia Golf Environmental Foundation (GGEF)
 - Georgia Golf Course Superintendents Association (GGCSA)
 - United States Golf Association (USGA)
- New Hybrids
 - Zoysiagrass
 - Bermudagrass
 - Centipedegrass

Tifton Campus Facilities

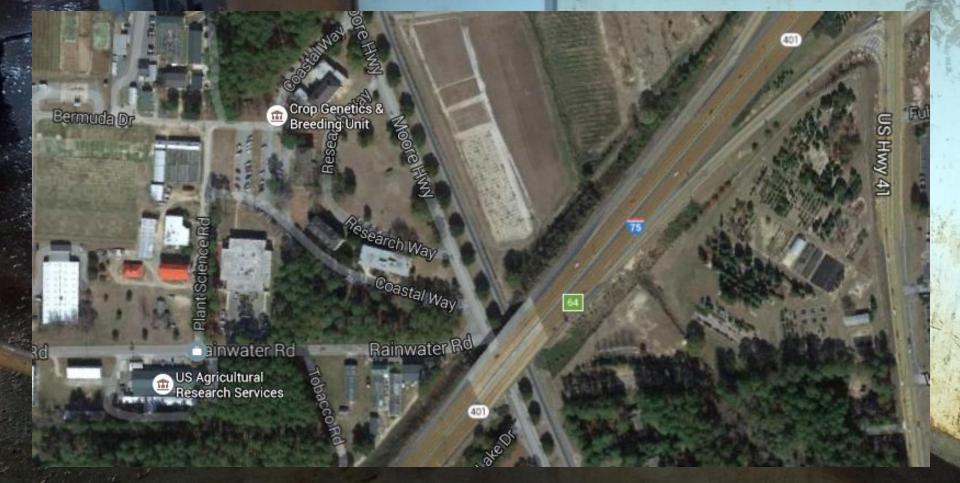


Tifton Campus Facilities









Temporary Facilities

Temporary Facilities



Zoysiagrass Hybrids

Bermudagrass Hybrids

Centipedegrass Hybrids

Bermudagrass

Bermudagrass

• Zoysiagrass - Georgia

Zoysiagrass - Georgia

Be anno - A

Zoysiagrass - Georgia

Zoysiagrass - Georgia

• Zoysiagrass - Texas

Zoysiagrass - Georgia and Texas Selection



Questions???

C.C.

Brian Schwartz

tifturf@uga.edu