University of Florida Turfgrass Research Projects for Y2K

The following list of current and ongoing projects at the University of Florida and the IFAS Research and Education Centers around the state is a reminder that meaningful research takes time and money. These projects are funded by donations from product manufacturers, seed and sod producers, GCSAA, USGA, FTGA and FGCSA sources.

Those oriented toward immediate results often forget that a research project proposal submitted and approved in one FGCSA/FTGA budget year may not get under way for several months or until the next season, depending on the nature of the project. Then the process of replication and documentation takes place followed by tabulation and interpretation of the collected data. The FGCSA board wants you to know the scope of all the research that is under way. The projects are grouped under topics of special interest.

Methyl Bromide Alternatives

Fumigant Alternatives for the Replacement of Methyl Bromide, Unruh, Brecke, Kinloch & Dusky

Impact of the Reduction of Methyl Bromide Concentration on Preplant Fumigation, Unruh & Brecke

Metham Sodium/Chloropicrin Rate Response Study, Unruh & Brecke

Methyl Bromide Alternative #300 Shank Spacing Study, Unruh & Brecke

Methyl Bromide Alternative #200 Shank Spacing Study, Unruh & Brecke

Screening of High Nitrogen Containing Compounds for Use as Soil Fumigants, Unruh, Johnson, & Kinloch

Environmental Studies

An Evaluation of Nitrogen Leaching from Golf Course Greens and Fairways Irrigated with Reclaimed Water, G. Snyder & Cisar

Comparative Leaching Properties of Calcium Nitrate, Sartain & Brown

Comparison of Primo EC and Primo MEC on Golf Course Fairways, Unruh

Determination of Shade Tolerance Mechanisms in St. Augustinegrass, Trenholm & Nagata

Dislodgeability and Volatization of Pesticides Applied to Golf Course Turf, G. Snyder & Cisar

Envirotron Study of Water and Pesticide Movement Through Modified USGA Golf Green Root-Zone, Nkedi-kizza, Sartain, Prabowo & Godding

Evaluation of Florida Yards Concept to Reduce Nitrogen Runoff, Cisar

Evaluation of Integrated Turfgrass Management Practices for Selected Ultradwarf Bermudagrass, Sartain & Kruse

Evaluation of Sporobulus Viginicus: Drought Tolerance, Trenholm

Evaluation of Sporobulus Viginicus: Fertility Requirements, Trenholm

Evaluation of Stress Tolerance in Zoysiagrass Lines, Trenholm & Scully

Fate of N During Grow-in of a Golf Course Fairway Under Different N Management Practices and .

"Florida Yard" Concept for Reducing Nitrogen Runoff into Sarasota Bay, G. Snyder & Cisar

Influence of Cytokinins and Potassium on Drought and Cold Stress in St. Augustinegrass, Trenholm

Influence of Light Quality and Quantity on Bermudagrass Growth, Miller

Influence of Silica on Drought Tolerance of St. Augustinegrass, Trenholm, Nagata & Datnoff

Influence of Silica on Salt Tolerance of St. Augustinegrass, Trenholm, Nagata & Datnoff

Influence of Silica on Shade Tolerance of St. Augustinegrass, Trenholm, Nagata & Datnoff

Irrigation Intensities, Sartain & Shaddox Mobility and Persistence of Pesticides Applied to a USGA Green -Dislodgeability and Risk Assessment, Cisar Monitoring the Losses of N from an Effluent-Irrigated Golf Course, Cisar Reducing N Leaching in Golf Course Turf: A BMP Implementation Project, Cisar

Mole Cricket Control

Activity of Thiamethoxam and a Combination Product Against Mole Crickets in Turf, Unruh

Control of Mole Cricket and Other Turf Soil Insects with Dursban Two Coat Applied and a Surface Treatment Compared With an Injected Treatment, Unruh

Efficacy of DeltaGard on Fertilizer
Materials for Late Season Mole
Cricket Control in Turf, Unruh

Mole Cricket Control with DeltaGard SC and G Formulations Delivered as a Subsurface or Surface Application, Unruh

Subsurface and Surface Application Rates of Talstar for Mole Cricket Control in Turf, Unruh

Biological Mole Cricket Controls

A Cold-Tolerant Strain of Ormia Depleta - Frank

Dual Action of Steinernema Scapterisci and Larra Bicolor on Six Florida Golf Course - Frank

Food of Adult Ormia Depleta - Frank & Welch

North Florida Populations of Larra Bicolor - Frank & Treadwell

Prey-Finding by Pheropsophus Aequinoctialis - Frank & Lake

Temperature-Driven Development in Mole Crickets and Ormia Depleta and Larra Bicolor -Frank & Cabrera

Nematode Control

Biological Control of Belonolaimus Longicaudatus by Pasteuria N. Sp in Turfgrass, Giblin-Davis

Evaluating Post plant Biorationals for Control of Belonolaimus Longicaudatus in Turf, Giblin-Davis

Evaluating Sting Nematode Resistance in St. Augustinegrass and Bermudagrass, Nagata & Scully

Evaluation of Hybrid Bermudagrass Dwarfs and Ultradwarfs for Tolerance to the Sting Nematode, Belonolaimus Longicaudatus, Giblin-Davis

Field Efficacy Of Telone II For Plant-Parasitic Nematode Control in Bermudagrass, Giblin-Davis Laboratory and Field Studies on DiTera against Belonolaimus
Longicaudatus, Giblin-Davis

Turf Molecular and Morphological Database for Nematode Identification in Florida and the Caribbean, Giblin-Davis

Biological & Organic Studies

Bacterial Populations and Diversity within New USGA Putting Greens, Elliott, Guertal, Kloepper & Skipper

Compost as the Organic Matter Component in a USGA Golf Green Root-Zone, G. Snyder & Cisar

Density Dependent Regulation of Belonolaimus Longicaudatus by Pasteuria N. Sp. in Turfgrass, Giblin-Davis

Description of a New Species of Pasteuria that Parasitizes the Sting Nematode, Belonolaimus Longicaudatus, Giblin-Davis

Effects of Osmoregulants on
Gaeumannomyces Graminis in
Solid and Liquid Media, Elliott

Evaluation of Compost Sources and Rates for Suitability in Roadside Turfgrass Growth, Miller

Evaluation of Composts for Disease Management and Enhance Quality of Golf Course Greens, Datnoff, Cisar & Snyder

Genetic Evaluation of the Soil borne Fungal Pathogen Gaeumannomyces Graminis, Elliott

The Effect of Composts in Topdressing on Disease Incidence on Turf Performance, and Microbial Activity, Cisar

Weed Control

Annual Blue-Eyed Grass Control, Brecke & Unruh

Annual Grass Control with Dimension + Ronstar in Bermudagrass, Brecke & Unruh

Annual Grass Management Systems with Corn Gluten in Bermudagrass, Brecke & Unruh

Broadleaf Weed Control, Brecke & Unruh

Broadleaf Control with Sulfentrazone and Carfentrazone, Brecke &

Control with Corn Gluten in Bermudagrass, Brecke & Unruh

Effect of Mowing, Interval on Torpedo, grass Control with Drive in Bermudagrass, Brecke & Unruh

Herbicide Tolerance of Bermudagrass Breeding Lines, Dusky, Brecke & Scully

Herbicide Tolerance of St.
Augustinegrass breeding Lines,
Dusky, Brecke & NagataAnnual
Grass Weed Control Strategies in
Bermudagrass Production and
Maintenance Programs, Dusky &
Brecke

Lawn Burweed Control - Spring, Brecke & Unruh

Nitrogen Fertilization Effect on Torpedograss Control with Drive in Bermudagrass, Brecke & Unruh

Nutsedge Management in Bermudagrass, Brecke & Unruh

Pennant Formulation Evaluation in Bermudagrass, Brecke & Unruh

Pennant Tolerance in St.

Augustinegrass, Brecke & Unruh Poa annua Control in Non-overseeded Bermudagrass, Brecke & Unruh

Poa annua Control in Overseeded Bermudagrass, Brecke & Unruh

Post emergence Annual Grass Control in Bahiagrass with Envoy, Brecke & Unruh

Post emergence Annual Grass Control in St. Augustinegrass with Envoy, Brecke & Unruh

Post emergence Herbicides, Weinbrecht & Miller

Pre-emergence Annual Crass Control in Bermudagrass, Brecke & Unruh

Rates, Tank-mixes & Timing of Post emerge Herbicides for

Torpedograss, Weinbrecht & Miller Small Flowered Alexandergrass Efficacy Following Various Combinations of Timed Applications of

Sulfentrazone and Carfentrazone in Bermudagrass, Brecke & Unruh

Sulfentrazone and Carfentrazone in Centipedegrass, Brecke & Unruh

Sulfentrazone and Carfentrazone in St. Augustinegrass, Brecke & Unruh

Torpedograss Control with Drive, Brecke & Unruh

Weed Control Strategies in St. Augustinegrass Production, Dusky & Brecke

Yellow Nutsedge Control in Bermudagrass with Sulfentrazone and Carfentrazone, Brecke & Unruh

General Insect Control

Chinch Bug Biology, Control and Resistance Studies, Nagata & Cherry Control of Turf Pests in Addition to Nematodes with Curfew Soil Injected on Fairways, Unruh

Effects of Bait Concentration on the Efficacy of Spinosad Bait Applied as a Broadcast Application in Range and Pastures, Unruh

Efficacy of Distance Fire Ant Bait for Control of Red Imported Fire Ants, Unruh

Insecticide Tests to Control Chinch Bugs, Cherry & Nagata

Phytotoxicity of Talstar Impregnated Fertilizer Products to Warm Season Turf, Unruh

Resistance of St. Augustinegrass to Chinch Bugs, Cherry, Nagata & Datnoff

Response of Red Imported Fire Ants to Reduced Rates and Concentrations of DE-105, Unruh

Disease Control

Dwarf Bermudagrass Tolerance to Rubigan, Brecke & Unruh

Effect of Biologicals and Fungicides to Control Pythium in Bermudagrass Golf Greens Overseeded with Poa Trivialis, Datnoff & Cisar

Effect of Fungicides and Surfactants to Curatively Control Fairy Ring on Golf Course Greens, Datnoff & Cisar

Effect of Heritage and Daconil on Grey Leaf Spot Development, Datnoff & Nagata

Effects of Nutrition and Host Plant Resistance on Grey Leaf Spot Development, Datnoff & Nagata

Effects of Selected Cultural Treatments on the Incidence of Gaeumannomyces graminis root infection of Centipedegrass: Soil pH., Unruh & Lawson

Screening St. Augustinegrass for Resistance to Grey Leaf Spot Caused by Pyricularia Grisea, Datnoff & Nagata

Nutrient Management

Accuracy of NIRS Instrumentation for Determining Tissue Concentrations of Ca, Mg, P, and K, Miller

Comparative Evaluation of Milorganite as a Nutrient Source for Turfgrass, Sartain

Comparative Evaluation of Sulf-N 45 on Cool and Warm-Season Turfgrass, Sartain



Comparative N and Fe Release Properties of Micromate NS Iron, Sartain

Comparison of Slow-Release N Sources on Turfgrass, Sartain

Comparison of Sybron Organically Based Products with Conventional Fertilization and Evaluation of Their Influence on the Incidence of Dollar Spot, Sartain

Comparison of Viking Ship Products in Turfgrass Production, Sartain

Effects of Nutrition and Modification of Host Plant Resistance to Gray Leaf Spot Fungi and Chinch Bugs, Nagata, Datnoff & Cherry

Effects of Types and Rates of N on the Growth and Quality of Turfgrass, Sartain

Evaluation of Green Technologies Products on Turfgrass, Sartain

Evaluation of Nitrogen Sources for Quality & Longevity, Miller

Evaluation of Sirflor as a Slow-Release N Source for Turfgrass, Sartain

Using NIRS for Nitrogen Scheduling on Two Dwarf-Type Bermudagrass Cultivars, Miller

Using NIRS to Predict Nitrogen
Concentrations in Bermudagrass
Using a SPAD Chlorophyll Meter to
Predict Nitrogen Concentration in
St. Augustinegrass, Miller

Utilization of Nutri-Grow on Golf Course Putting Green Turf, Unruh

Turfgrass: Breeding and Evaluations

A Study to Screen Tall Fescue Germplasm for Heat Tolerance, Dudeck & Duncan Collection and Evaluation of Florida Bermudagrass and Zoysiagrass Germplasm, Scully

Cultivar Development of St. Augustinegrass, Nagata, Unruh, Dudeck & Cisar

Development of Centipedegrass Cultivars, Nagata & Scully

Effects of Seed Treatment and Media on Germination of 'NuMex Sahara' Bermudagrass, Dudeck

Evaluation of Various Cool-Season Grass Species, Mixtures, and/or Blends for Overseeded Winter Ground Covers Under Golf Course Fairway and Putting Green Conditions, Dudeck

New Grasses: NTEP Test on Ultradwarfs, Cisar

NTEP Cultivar Trial: Buffalograss, Unruh NTEP Cultivar Trial: On-site Putting

Green Bermudagrasses, Unruh NTEP Cultivar Trial: Zoysiagrass, Unruh NTEP Overseed Trials at Grand Cypress

Country Club, Dudeck
NTEP Studies Involving Bermudagrass,
St. Augustinegrass, and
Zoysiagrass, Dudeck

Out-State Trials of Superior
Bermudagrass Selections Under
Golf Course Fairway Conditions in
North, Central, and South Florida,
Dudeck

Screening St. Augustinegrass Germplasm for Winter Hardiness at Blairsville, GA, Dudeck & Duncan

Tissue Culture of St. Augustinegrass, Nagata

UF Breeding Program Cultivar Trial: Dudeck Bermudagrass, Unruh

UF Breeding Program Cultivar Trial: Nagata St. Augustinegrass, Unruh

UF Breeding Program Cultivar Trial: Scully Bermudagrass, Unruh UF Breeding Program Cultivar Trial: Scully Zoysiagrass, Unruh UF Breeding Program Cultivar Trial: Scully Centipedegrass, Unruh Ultra Dwarf Bermudagrass Studies in North Florida, Dudeck

Water & Soil Studies

Deficit Irrigation of Turfgrasses, Miller Erosion Control Along Florida Roadsides, Miller, Black & Kidder

Influence of Basic-H on Water Use Efficiency Under Turfgrass Culture, Sartain

Investigation of Coated Sands for Use in Putting Green Construction, Sartain & R. Snyder

Investigations of Soil Amendments for Nutrient and Water Retention, Miller

Soil and Turfgrass Tissue Analysis Correlation, Sartain & Higby

Sports Turf

Cold Tolerance Evaluations of New St. Augustinegrass Cultivars, Miller

Correlation of Soccer Field Conditions to Player Perceptions, Miller

Correlation of Soil Moisture and Surface Hardness, Miller

Evaluation of Perennial Ryegrass for Spring Transition on Athletic Fields, Miller

Evaluation of Shoe Cleat Design on Turf Wear and Traction, Miller

Evaluation of Soccer Fields for Performance Standards, Miller

Soil and Tissue Analysis Correlation Stabilization of Athletic Field Soils Using Enkamat, Miller

Techniques for Evaluation of Traction on Athletic Fields, Miller

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