

2018 Annual Report of the South Carolina Commercial Turf Clinic

The Commercial Turf Clinic had a good year in 2018, having taken in 91 samples from South Carolina and five other states. I am grateful for the assistance of Graduate Student, Jacob Taylor in processing 34 samples and preparing reports for 11. Specialists, Dr. Bruce Martin and Dr. Bert McCarty provided advice on several occasions, and their assistance is greatly appreciated. This year we bid a fond farewell to Dr. Martin, who retired in July. He will be missed, but a new Turf Pathologist will be hired in 2019.

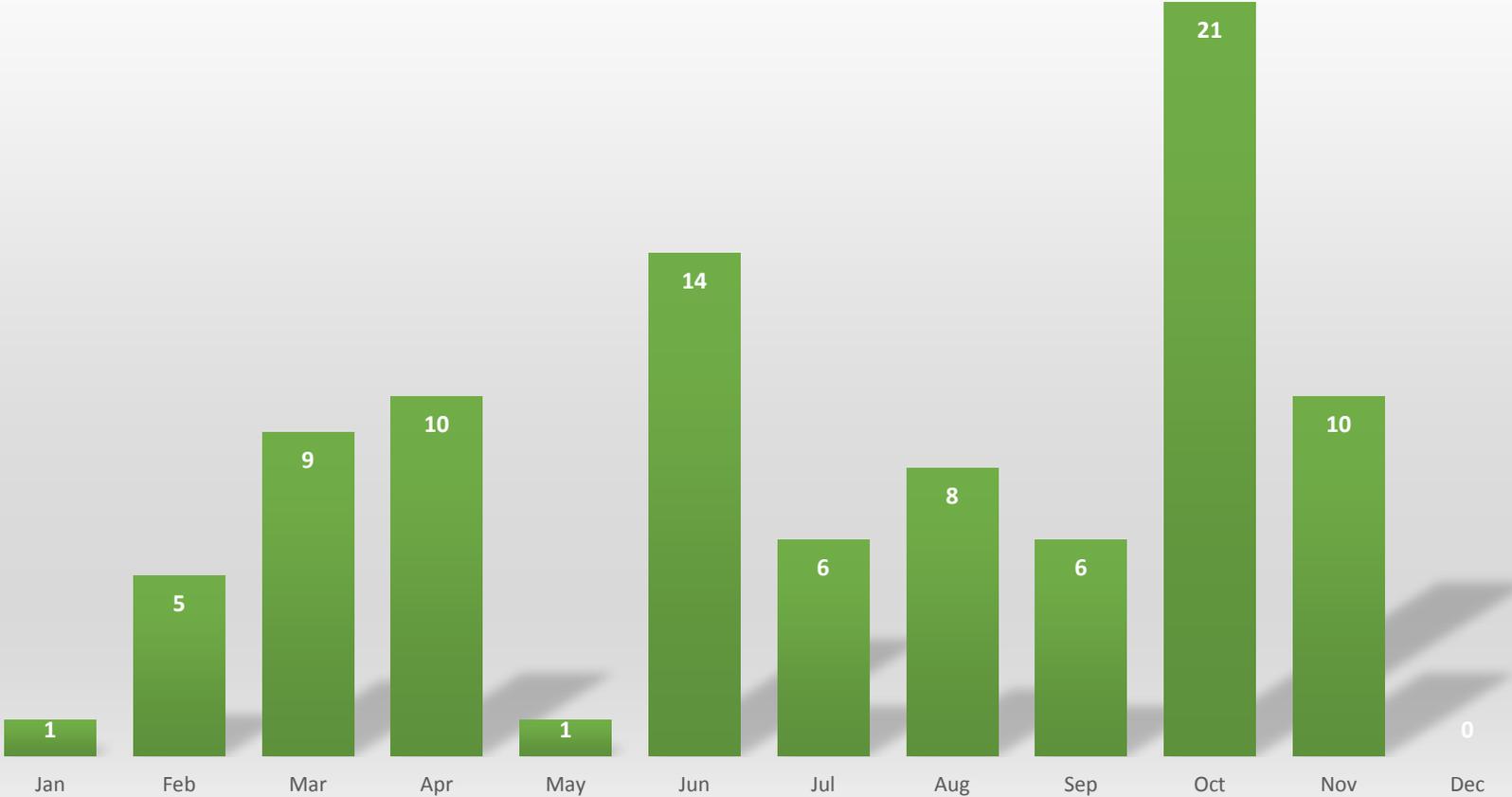
Hopefully, the pages that follow will provide readers with knowledge and insight into problems being encountered on golf courses, sod farms and other commercial entities during the past year.

Meg Williamson

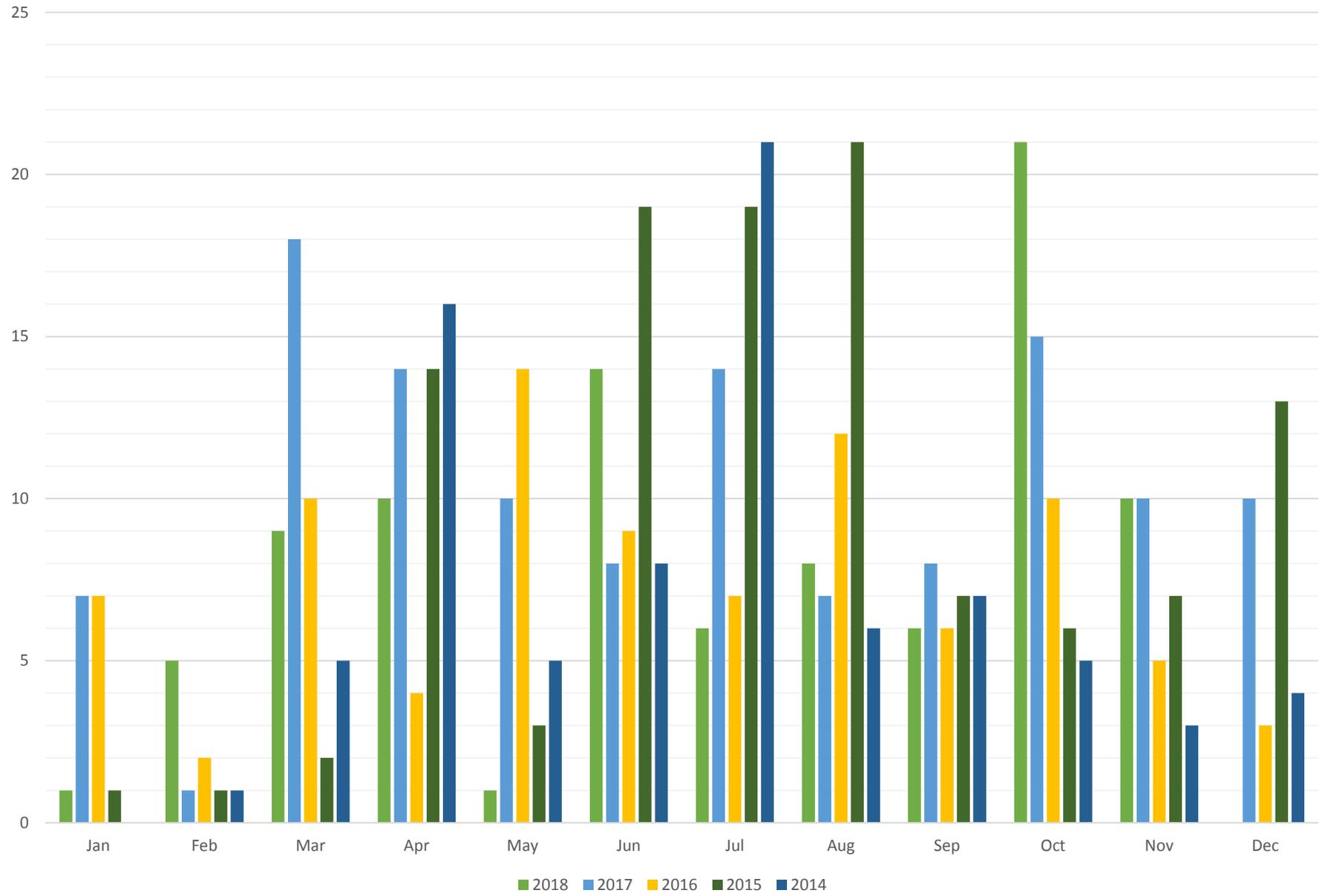
Diagnostician

Number of Samples per Month in 2018

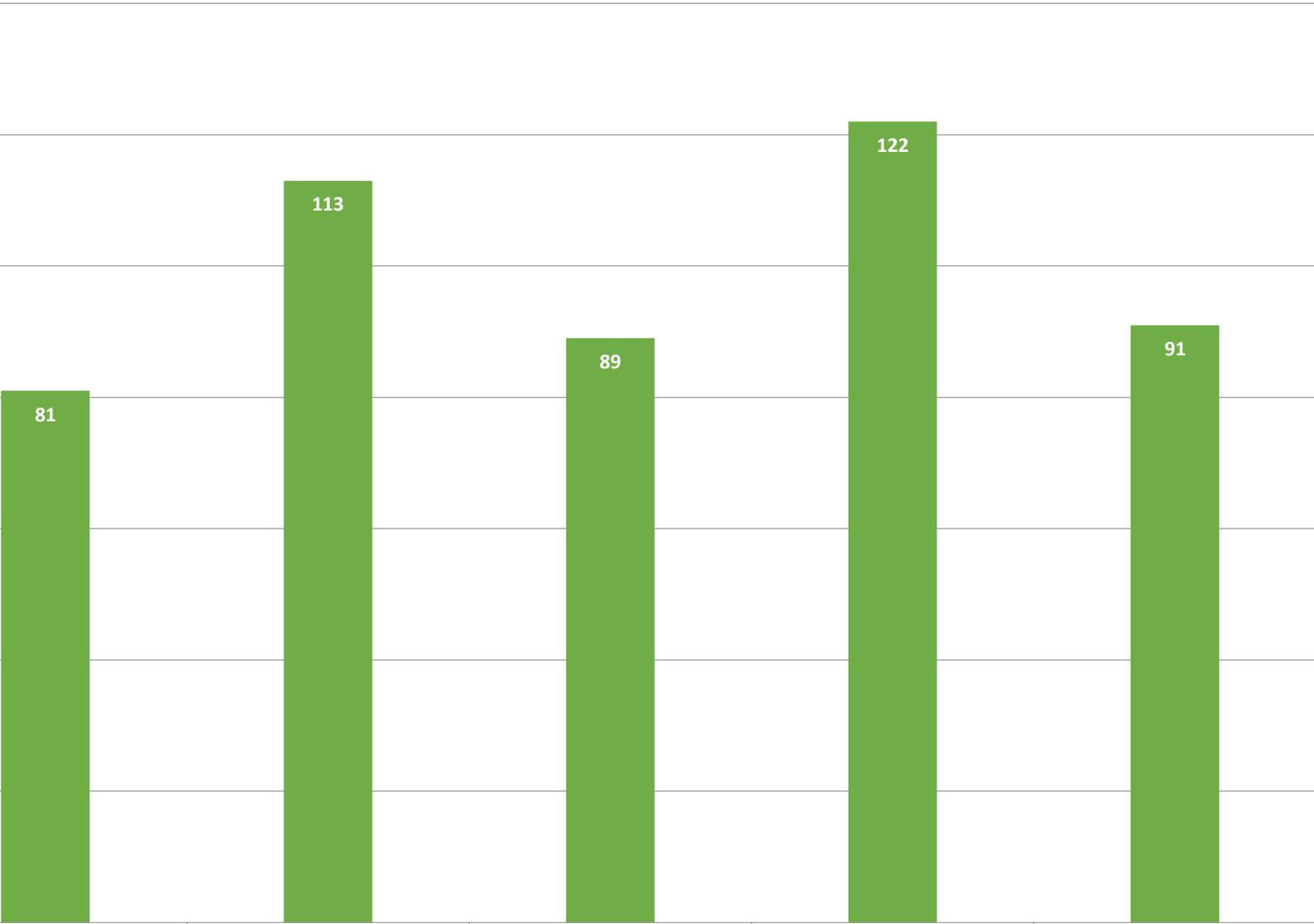
Total = 91



Samples Submitted by Month over the past 5 Years



Commercial Turf Sample Totals for Past 5 Years



2014

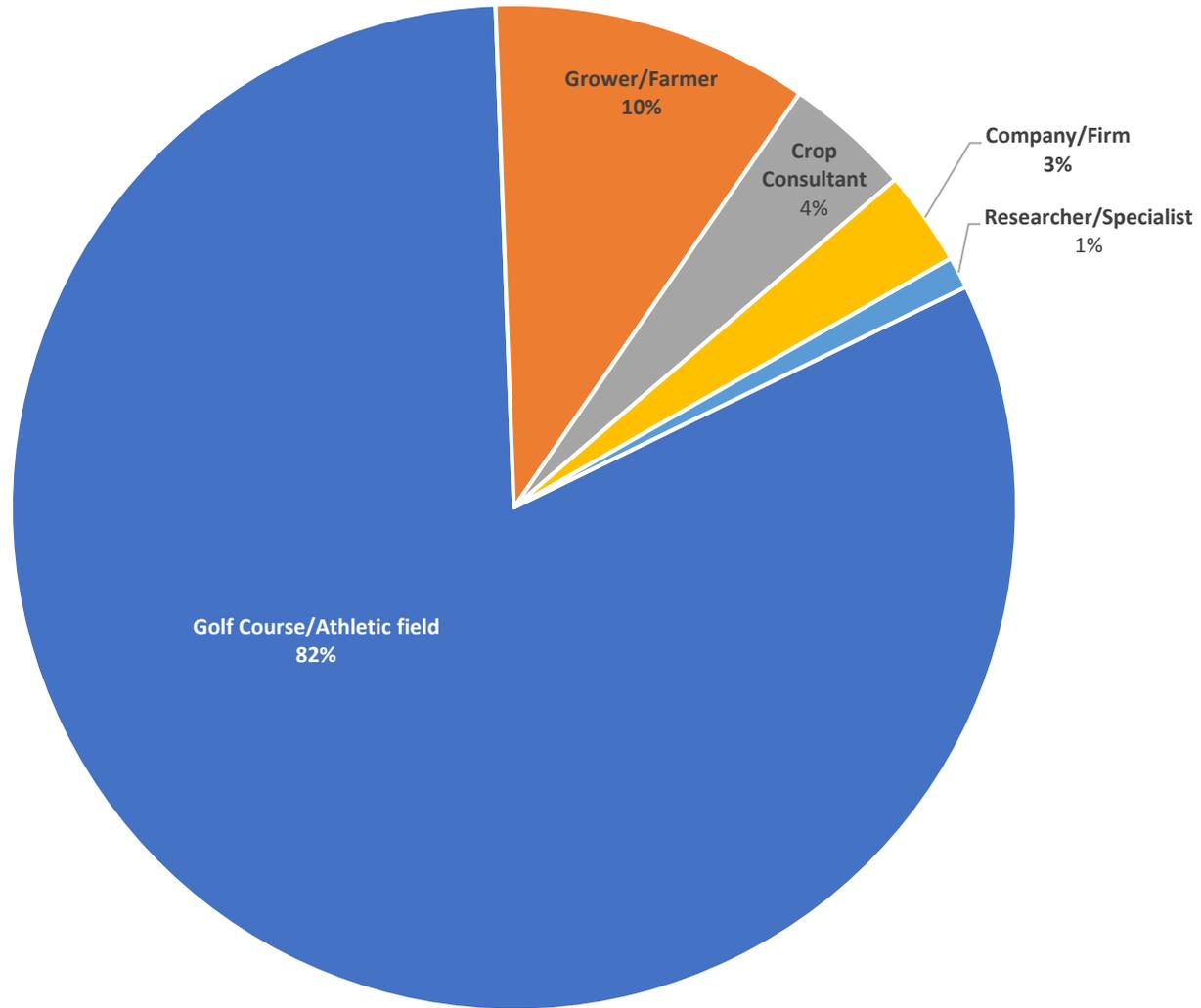
2015

2016

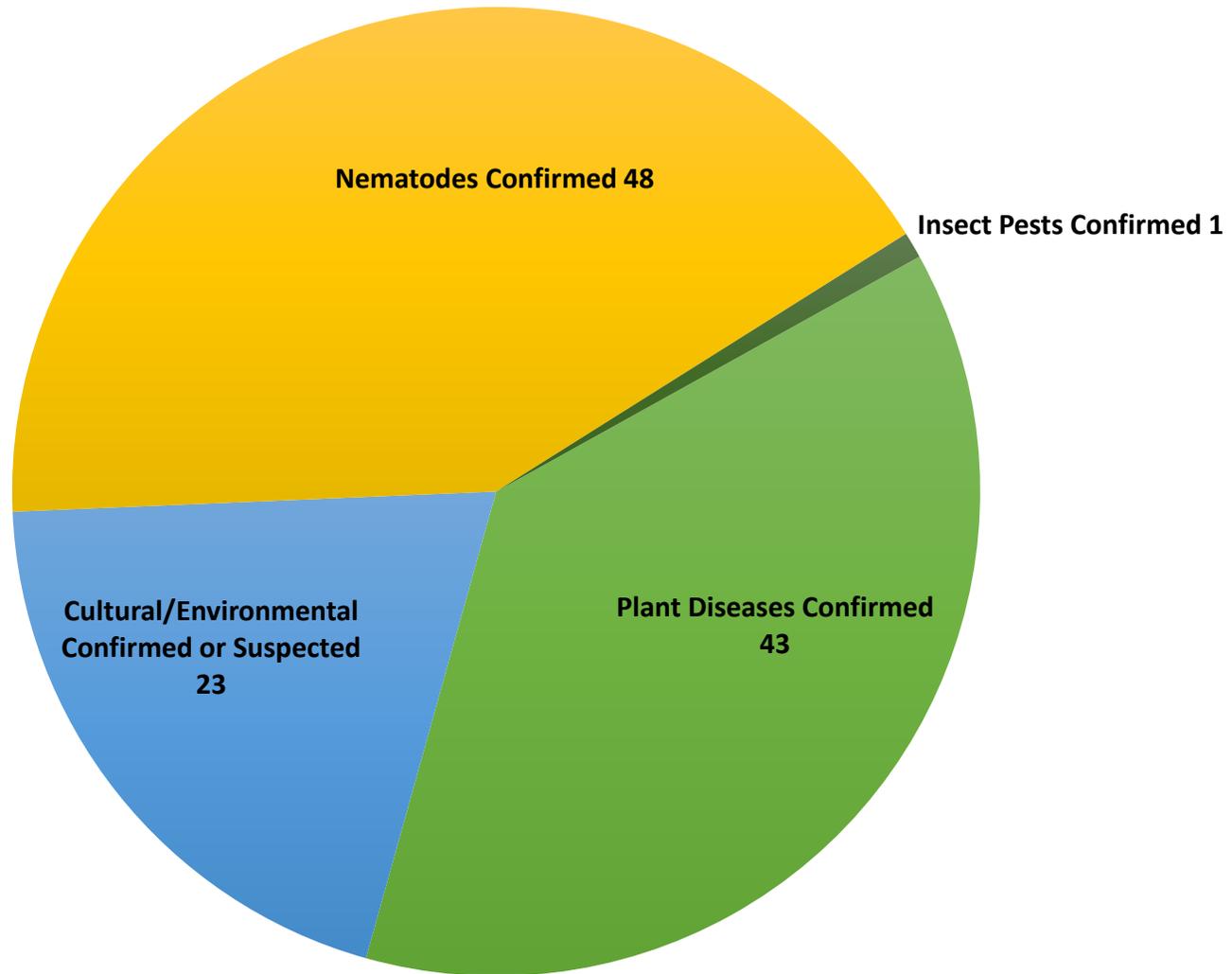
2017

2018

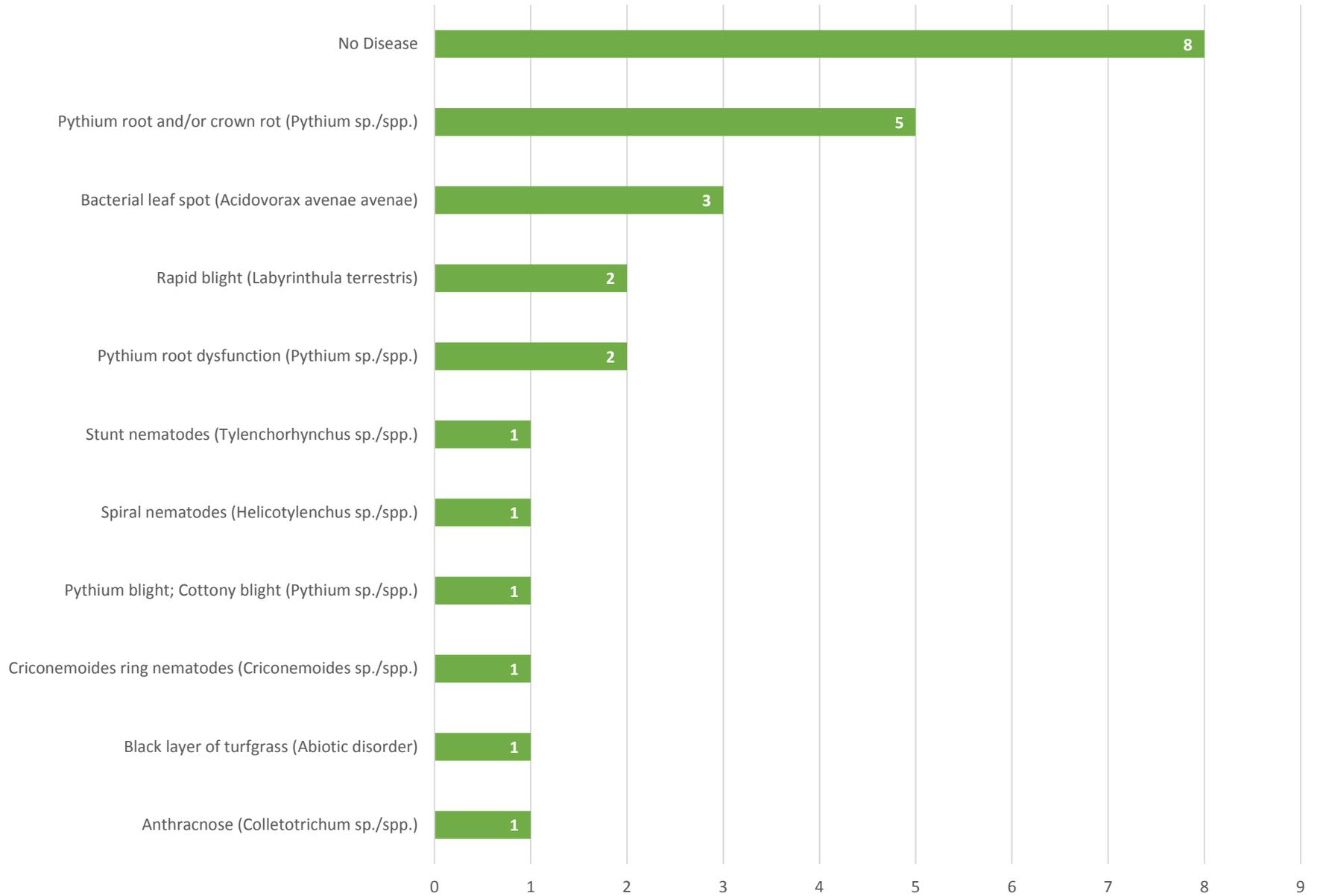
Client Types by Percent in 2018



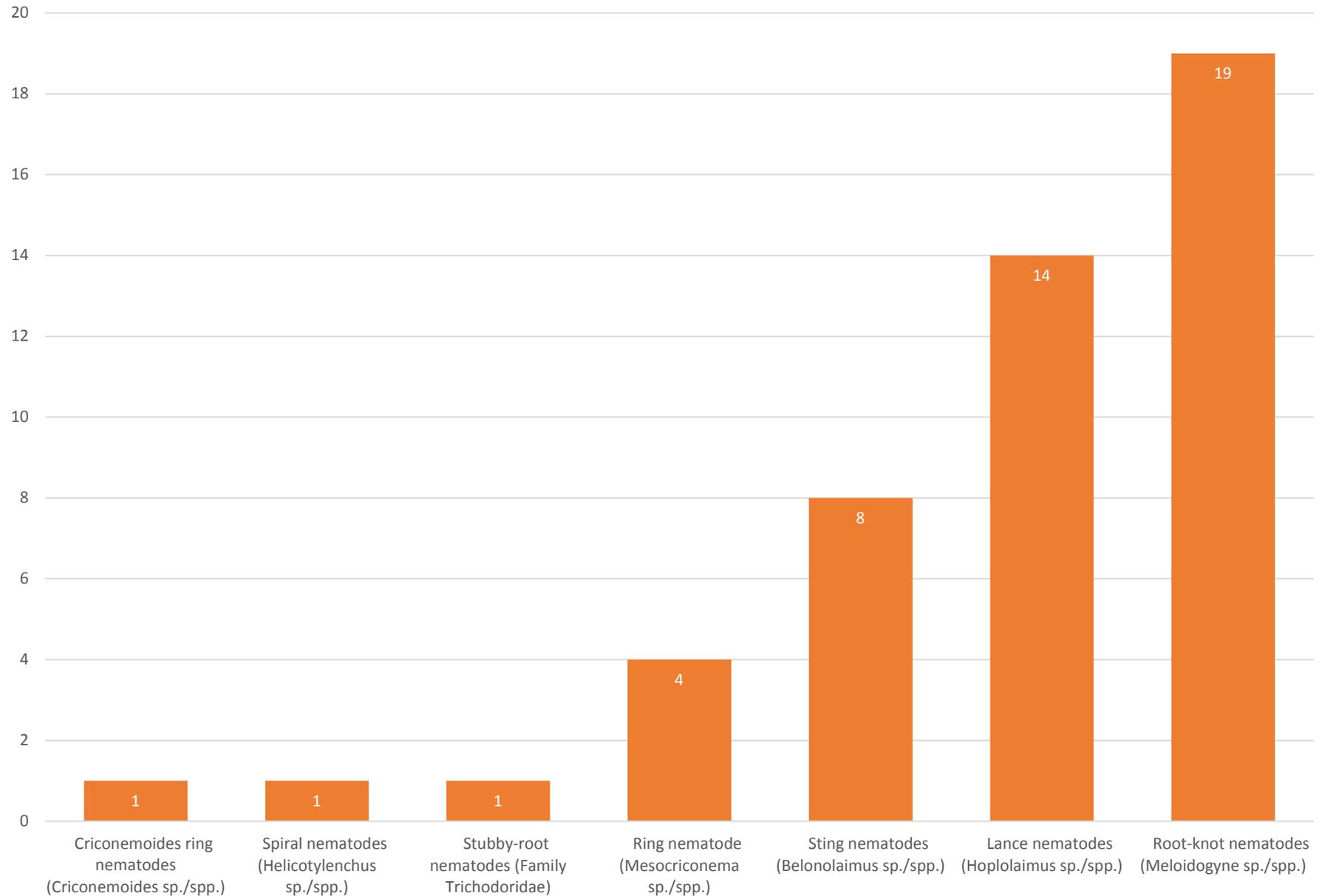
Bermudagrass Samples by Diagnostic Categories in 2018



2018 Diagnoses on Bentgrass



Number of Bermudagrass Samples with Nematode Problems in 2018



Numbers of Sample Submitted by Various States in 2018

State	Number of Samples
North Carolina	1
Texas	4
Arkansas	6
Georgia	12
Florida	21

South Carolina Samples

South Carolina County	Number of samples
Berkeley	1
Bamberg	1
Pickens	1
Anderson	2
Horry	3
Greenville	3
Charleston	4
Orangeburg	4
Richland	5
Beaufort	10
Oconee	13
STATE TOTAL	47

2018 Diagnoses and Identifications from Turf in Golf Courses and other Commercial Sites

	Confirmed	Not Detected	Suspected	Undetermined
Bentgrass (<i>Agrostis</i> sp./spp.) (Host,Diagnosis/ID)				
(18,26) (18 samples, 26 diagnoses)				
Anthracnose (Anthracnose Colletotrichum sp./spp.)	1	0	0	0
Bacterial leaf spot (Acidovorax avenae avenae)	3	0	0	0
Black layer of turfgrass (Abiotic disorder)	1	0	0	0
Criconemoides ring nematodes (Criconemoides sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	7	0
Environmental stress; Problem (Abiotic disorder)	0	0	1	0
Pythium blight; Cottony blight (Pythium sp./spp.)	1	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	5	0	0	0
Pythium root dysfunction (Pythium sp./spp.)	2	0	0	0
Rapid blight (Labyrinthula terrestris)	2	0	0	0
Spiral nematodes (Helicotylenchus sp./spp.)	1	0	0	0
Stunt nematodes (Tylenchorhynchus sp./spp.)	1	0	0	0
Bermudagrass (<i>Cynodon dactylon</i>) (Host,Diagnosis/ID)				
(1,2)				
Root-knot nematodes (Meloidogyne sp./spp.)	0	0	1	0
Sting nematodes (Belonolaimus sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
Bermudagrass (Cynodon sp./spp.) (Host,Diagnosis/ID) <i>(71,138)</i>				
Algae (General)	5	0	0	0
Copper spot; Zonate leaf spot (Microdochium sorghi)	2	0	0	0
Cream leaf blight (Limonomyces roseipellis)	2	0	1	0
Criconemoides ring nematodes (Criconemoides sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	13	0
Curvularia blight; Leaf spot (Curvularia sp./spp.)	1	0	0	0
Dense thatch layer (Abiotic disorder)	4	0	0	0
Dollar spot (Clarireedia homoeocarpa)	1	0	0	0
Drainage problem (Abiotic disorder)	0	0	1	0
ETRI ectotrophic root infecting fungi (Complex of Fungi)	4	0	0	3
Glyphosate injury (Abiotic disorder)	1	0	0	0
Helminthosporium root rot (Helminthosporium sp./spp.)	1	0	0	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	1	0	0	0
Lance nematodes (Hoplolaimus sp./spp.)	14	0	0	0
Leaf and sheath spot (Rhizoctonia oryzae)	1	0	0	0
Leaf blotch (Bipolaris cynodontis)	3	0	0	0
Leaf spot (Bipolaris sp./spp.)	3	0	0	0
Leptosphaerulina leaf blight (Leptosphaerulina australis)	1	0	0	0
Localized dry spot (Abiotic Disorder)	0	0	1	0
Nematodes; General plant (Order Tylenchida)	0	0	0	1
No pathogen found (Identification Analysis)	0	2	0	0
Pink snow mold; Monographella patch (Monographella nivalis)	2	0	0	0

Bermudagrass (*Cynodon sp./spp.*) (*Host,Diagnosis/ID*)
(71,138)

Plant parasitic nematodes (Unspecified Genera)	0	0	3	0
Pythium blight; Cottony blight (<i>Pythium sp./spp.</i>)	7	0	0	0
Pythium root and/or crown rot (<i>Pythium sp./spp.</i>)	9	0	4	0
Rhodesgrass mealybug (<i>Antonina graminis</i>)	2	0	0	0
Ring nematode (<i>Mesocriconema sp./spp.</i>)	4	0	0	0
Root decline of warm season grasses (<i>Gaeumannomyces graminis var. graminis</i>)	1	0	1	0
Root problem (Unknown Cause)	0	0	1	3
Root-knot nematodes (<i>Meloidogyne sp./spp.</i>)	19	0	2	0
Soil compaction (Abiotic disorder)	1	0	0	0
Spiral nematodes (<i>Helicotylenchus sp./spp.</i>)	1	0	0	0
Sting nematodes (<i>Belonolaimus sp./spp.</i>)	7	0	0	0
Stubby-root nematodes (Family Trichodoridae)	1	0	0	0
Unspecified pathology (<i>Gaeumannomyces sp./spp.</i>)	1	0	0	0
Unspecified pathology (<i>Monographella nivalis</i>)	1	0	0	0
Unspecified pathology (<i>Pythium sp./spp.</i>)	1	0	0	0
Seashore Paspalum (<i>Paspalum vaginatum</i>) <i>(Host,Diagnosis/ID) (1,1)</i>				
Cream leaf blight (<i>Limonomyces roseipellis</i>)	0	0	1	0