Brunswickgrass (Paspalum nicorae Parodi)



bahiagrass seed fields

The FACTS ABOUT BRUNSWICKGRASS

- Brunswickgrass (Paspalum nicorae Parodi)
- Alias "Brown-seed paspalum"
- Native to S. Brazil, N. Argentina, Paraguay and Uruguay
- Introduced to U.S. and spread for soil conservation purposes (erosion control and forage)
 - Moderate energy and CP levels (TDN of 50-55%; CP of 7-11%)
 - Reasonable tonnage of 4-5 tons DM/acre
 - Held a thick sod
- Cattle grazing Brunswickgrass consume the grass when young

The FACTS ABOUT BRUNSWICKGRASS

- Well adapted to many soil types
 - Does not tolerate poor drainage
- Naturalized and competitive with bahiagrass and bermudagrass.
 - Found to be less tolerant of freezing than bahiagrass
- Intolerant of heavy residue buildup
 - Used to line edges of ditch banks and waterways, but would smother itself out when not mowed within 3-5 years.
 - This led to it quickly falling out of favor, but not before it was widely dispersed along the Gulf Coast



- Low palatability, dominates in perennial grass pastures.
- Contaminated bahiagrass seed fields/pastures reported (including Gilchrist, Levy, Alachua, Citrus and Sumter counties in Florida).

Appearance

Brunswickgrass is a perennial summer grass

Similar growing season and appearance to that of bahiagrass

Closely related to bahiagrass (Paspalum notatum Flugge)

Similar flowering to 'Pensacola' bahiagrass but it often has 3-4 racemes per head

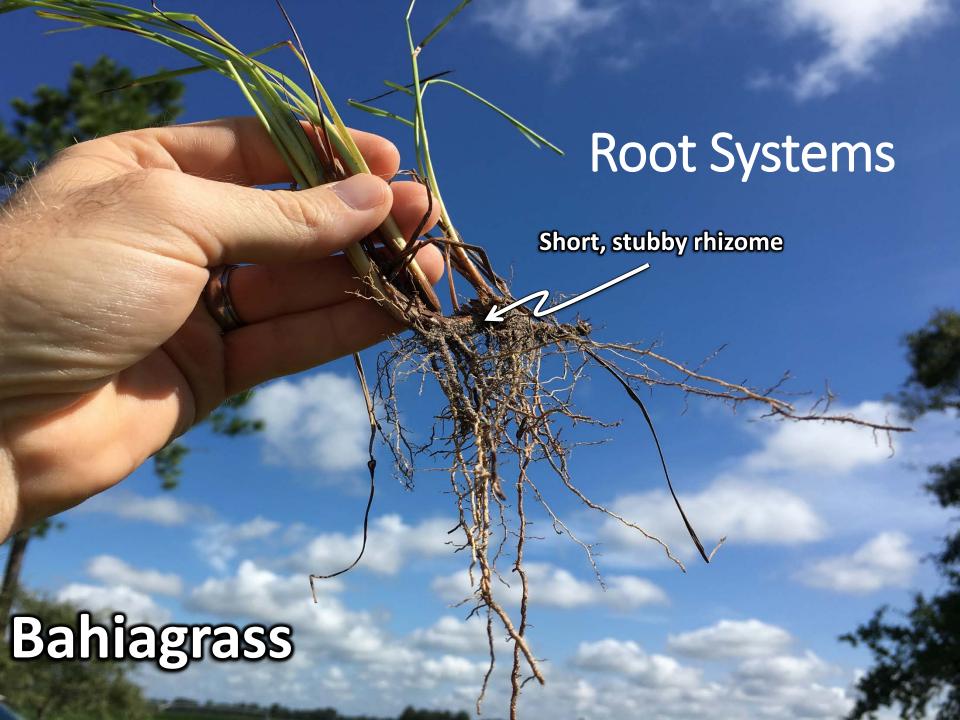
Bahiagrass has typically 2 to 3 racemes



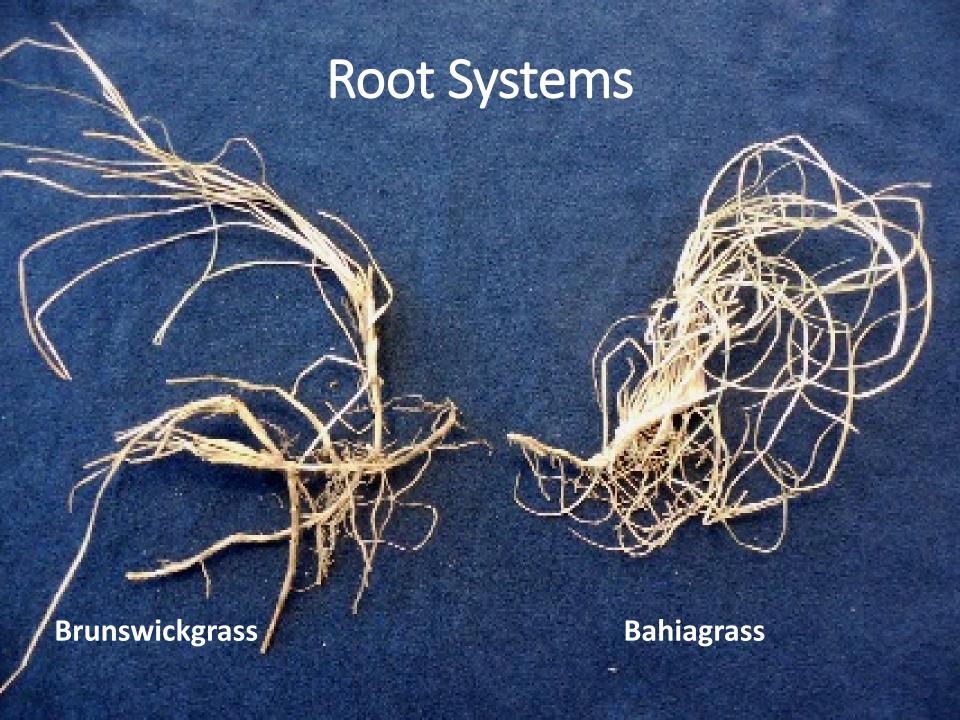


Brunswickgrass-flowering seed head









Seed Comparison



- Seed are slightly smaller than that of Pensacola bahiagrass
- seed coat has a dark, chestnut brown center
- Seed are noticeably convex in shape compared to flat, tan colored seed of bahiagrass

Brunswickgrass - Close up of seed









Learning curve

We need to know

how to identify the plant

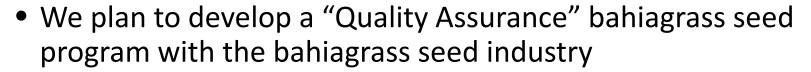
how many acres are infested

how unpalatable it is

how hard-seeded it is

how long it persists in the seed bank

how do we eradicate it



 We created a Task Force of members from the Department of Agriculture (AL, GA and FL), commercial seedsmen, cattlemen, and research and extension faculty (AU, UGA and UF) to address the above issues in a TEAM approach



Read the label, but also read the lab analysis

Do Not Use For Food, Feet 02111630 Lot: 11.4859.NCTDS **IDAHO** Grown Tested: JUNE 2014 65.00 % PURE SEED GERM 85% 0.15 % OTHER CROP HARD SEED 5% 0.30 % INERT MATTER 34.50 % COATING MATERIAL 90% TOTAL 0.05 % WEED SEED COATED W/ ALL-VANTAGE LOTM113 **INOC EXP 09/15** TREATED W/NUTRI-START LOT152322 (0.0046 OZ per coated pound) Noxious Weed Seeds: None Found Net Weight: 50 LBS/22.68KG 56637 22815

GEORGIA DEPARTMENT OF AGRICULTURE

Gary W. Black, Commissioner

Seed

Scott Hobby Lab Program Director 3150 U.S. HWY 41 S Tifton, Georgia 31794

229-386-3557 Scott.Hobby@agr.georgia.gov

DATE REPORTED: 3/8/2017

Official Report

Alan.Lowman@agr.georgia.gov DATE RECEIVED: 2/16/2017 LOT NO. LAB NO.

Alan Lowman

Ag. Inputs Program Director

19 M. L. K. Dr. S.W.

Atlanta, Georgia 30334

404-656-4958

FOUND O' LABELED:

LABELED

Pensacola Bahiagrass

WHOLESALER/SHIPPER:

LABELED BY:

Inspector: JHW 85 Net Wt: 50 lb

COLLECTED FROM:

Origin: Florida

Label Date: 9/1/2016

No. Containers in Lot: 200

No. Containers Sampled: 26

				Labeled(%) Found(%)
Bahiagrass / Pensacola	95.00	80	90.23	73 + 8 DS
Pure Seed Components	PURE SEED	GERMINATION - HARD OR DORMANT SEED	PURE SEED	GERMINATION-HARD OR DORMANT SEED

	Labeled(%)	Found(%)
INERT	4.00	8.62
OTHER CROP	0.75	0.18
WEED SEED	0.25	0.97

Treatment:

Noxious Weed Labeled/Lb:

REMARKS:

[Weed Seed - Crabgrass, Sedge, Pigweed, Cyperus, Chervil, Peppergrass, Indigo Hairy, Brunswickgrass, Other Crop - Ryegrass, Millet Browntop]

Sample must be relabeled to reflect current purity analysis.

Mislabeled as to pure seed.

Mislabeled as to inert matter.

Mislabeled as to weed seed.

Dormant seed confirmed by Tetrazolium (TZ) testing.

GEORGIA DEPARTMENT OF AGRICULTURE

Gary W. Black, Commissioner

Seed

Scott Hobby
Lab Program Director
3150 U.S. HWY 41 S

Tifton, Georgia 31794 229-386-3557

seed

Official Report

Scott.Hobby@agr.georgia.gov

DATE REPORTED: 10/3/2006

DATE RECEIVED: 10/3/2006

LAB NO

LOT NO. 160

LABELED Pensacola Ba

Pensacola Bahiagrass

FOUND OTHER KIND THAN LABELED: COLLECTED FROM:

Alan Lowman

Ag. Inputs Program Director

19 M. L. K. Dr. S.W.

Atlanta, Georgia 30334

404-656-4958

Alan.Lowman@agr.georgia.gov

Tri-Chek PO Box 5280 Augusta ,GA 30916 WHOLESALER/SHIPPER:

LABELED BY:

Inspector: SLB 104 Net Wt: 50 lb Origin: Florida

Label Date: 7/1/2005

No. Containers in Lot: 280

No. Containers Sampled: 30

Pure Seed Components	Labeled PURE SEED	Labeled GERMINATION - HARD OR DORMANT SEED	Found PURE SEED	Found GERMINATION-HARD OR DORMANT SEED
1	95	40 + 40 DS	97.3	67 + 8 DS

	Labeled(%)	Found(%)
INERT	3	2.54
OTHER CROP	1.5	0.08
WEED SEED	.5	0.08

Treatment:

Noxious Weed Labeled/Lb:

Tests

Pure Seed (Mixture): 97.3 % Dormant Seed (Mixture): 8 %

REMARKS:

[Weed Seed - Crabgrass, Brunswickgrass, Cyperus,

Other Crop - Ryegrass] Analysis copied from bag

Germination test date has expired.

Historical evidence of brunswickgrass in the seed trade

Volume 3. Uniform Classification of Weed and Crop Seeds

voidine of officer				or op occus
Scientific name-Paspalum	Common name	Family	SPP. Class	Contaminating class
P. boscianum	bull paspalum	Poaceae	W	W
P. dilatatum	dallisgrass	Poaceae	Α	С
P. distichum	knotgrass	Poaceae	W	W

Poaceae

W

W

W

W

W

W

W

W

W

W

W

R

Α

W

W

W

W

Α

Florida paspalum

ribbed paspalum

brunswickgrass

bahiagrass

brown-seed

kodo millet

paspalum

vaseygrass

kodo, thin paspalum

sand paspalum

field paspalum

P. floridanum

P. malacophyllum

P. laeve

P. nicorae

P. notatum

P. plicatulum

P. setaceum

P. spp.

P. urvillei

P. scrobiculatum

P. setaceum var. stramineum

2017 Georgia State Seed Lab Report (Jan-July)

Lab no.	Lot no.	Brunswickgrass contaminant (%)	No./lb.	Collected from	Grown
1001	XXXXX	0.37	1,188	XXXXX	Florida
1002	XXXXX	0.10	315	XXXXX	Florida
1003	XXXXX	0.19	621	XXXXX	Florida
1004	XXXXX	0.01	27	XXXXX	Florida
1005	XXXXX	0.90	3,600	XXXXX	Florida
1006	XXXXX	0.08	252	XXXXX	Florida
1007	XXXXX	0.11	450	XXXXX	Florida
1008	XXXXX	0.09	396	XXXXX	Florida
1009	XXXXX	0.05	153	XXXXX	Florida
1010	XXXXX	0.08	324	XXXXX	Florida
1011	XXXXX	0.02	54	XXXXX	Florida
1012	XXXXX	0.02	63	XXXXX	Florida
1013	XXXXX	0.002	9	XXXXX	Florida
1014	XXXXX	2.31	7,920	xxxxx	Florida
1015	XXXXX	0.43	1,890	XXXXX	Florida

Brown-seed paspalum (Paspalum plicatulum)



Brunswickgrass (Paspalum nicorae)

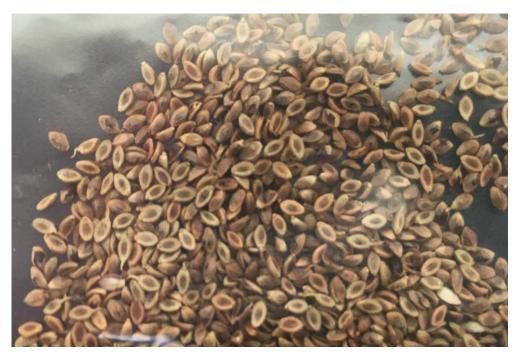


Georgia State Seed Lab: microscope view of Brunswickgrass seed



Concerns for seed analysts

- Brunswickgrass is difficult to distinguish from brown-seed paspalum – need close microscopy
- National classification of "weed seed" (Brunswickgrass) vs "crop seed" (brown-seed paspalum)
- Total number Brunswickgrass/lb. permissible for seed sale
- "Brown bagged" bahiagrass seed



What we can do to reduce or eliminate Brunswickgrass in our seed trade



- Educate producers involved in bahiagrass seed harvest to recognize the plant, especially at flowering.
- Educate combine drivers and seed processors to avoid harvesting from contaminated fields or areas within.
- Promote harvesting from clean fields, perhaps with a "value-added" premium for clean seed.
- Consider planting NEW and CLEAN fields for seed harvesting where feasible.

What we can do to reduce or eliminate Brunswickgrass in our seed trade



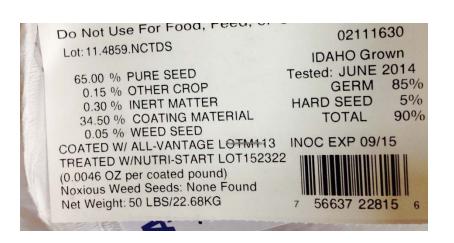
- Educate land owners with contaminated fields to contact local county agents for up-to-date information on potential herbicides or crop rotations that reduce or eliminate the weed.
- Educate all livestock producers (Cattle, equine, small ruminants, etc.), as well as turfgrass producers and turfgrass users (DOT, municipalities, etc.) to avoid purchasing contaminated or "brown-bagged" seed to reduce spread.

What we can do to reduce or eliminate Brunswickgrass in our seed trade

Consider planting certified seed.

Remember "you get what you pay for", so read the SEED
 TAG and ask to see the state or private company SEED LAB

REPORT.



	GE	ORGIA DEPARTMENT OF A	GRICULTURE		
Alan Lowman	GL				Scott Hobby
Ag. Inputs Program Director		Gary W. Black, Commis	isioner		b Program Director
19 M. L. K. Dr. S.W.		Seed			150 U.S. HWY 41 S
Atlanta, Georgia 30334		5000		,	Ron, Georgia 31794
404-656-4958		Official Report			229-386-3557 obbyttlagr georgia gov
Alan Lowman@agr georgia.g	04:			BATE REPORTED:	
AB NO. T-17-O-01171 L	OT NO. 15 177	LABELED	Pensacola Bahias		aranta ii
NO. 1-17-0-01171 D	OT NO. 18-172	Differen	Personal Darring	,,,,,,	
OUND OTHER KIND THAN L	ABELED:				
OLLECTED FROM:				ALER/SHIPPER	
Seed Produc	tion Inc		Loke	s Seed Cleaning City .FL	& Harvesting Co
PO Box 290			1 /		
Madison .GA	30650	1	11-		
			-		
		2	LABELEC	DBY.	
			Painte	s Seed Cleaning	R
		-01		resting	
		70r			
	_ c	10r	Harv		
	Origin Florida	Label Date:	9/1/2016		
	Origin Florida No. Conteners in		Harv	resting	
et Wt. 50 lb	No. Containers in		9/1/2016		
et Wt. 50 lb are Seed Components	No. Conteners in	Lot: 200 No. Contains	9/1/2016 ers Sampled: 26	resting	DOMMANT SIXED
et Wt. 50 lb are Seed Components	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 irs Sampled: 26	Pesting Found GUIDMINITONIANS ON	DOMMANT SIXED
et Wt. 50 lb ure Seed Components	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 irs Sampled: 26	GunnerAlTiOns route on 73 + 81 Labeled(%) 4.00	CONTINUES SEED DIS SE
et Wt. 50 lb ure Seed Components	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Provide Sampled: 26 Provide SEED 90.23	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 lb ure Seed Components	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 ers Sampind: 26 Found rules seed 90.23	GunnerAlTiOns route on 73 + 81 Labeled(%) 4.00	CONTINUES SEED DIS SE
et Wt. 50 lb ure Soed Components ahiagrass / Pensacola	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Princed Public SED 90.23 INTER ORDER ORDER	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 lb ure Seed Components ahiagnass / Pensacola	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Princed Public SED 90.23 INTER ORDER ORDER	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 lb we Seed Components ahiagnass / Pensacola	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Princed Public SED 90.23 INTER ORDER ORDER	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 lb we Seed Components ahiagnass / Pensacola	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Princed Public SED 90.23 INTER ORDER ORDER	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 lb are Seed Components ahlaignass / Pensacola ahlaignass / Pensacola reatment: oxious Weed Labeled/Lb:	No. Containers in	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	9/1/2016 Princed Public SED 90.23 INTER ORDER ORDER	Found Gardenic Transcott Co. 173 + 81 Laboled (%) 4.00 0.75	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et WL 50 b are Bond Components ahisignass / Pensacola ahisignass / Pensacola reatment: coious Weed Labeled Lb: EMARKS:	No. Conteners in Listenat PORE SECO 95.00	Lote 200 No. Contains	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Facel of T3 + 8 ii Labeled(%) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et Wt. 50 ib ar Board Components athingnass / Pensacola areament: coxious Weed Labeledf.b: EMARKS:	No. Containers in Literature press associated associate	Lot: 200 No. Contains Little Communication - AWAS ON DOMMANT SEED	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Facel of T3 + 8 ii Labeled(%) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et W. 50 b are Boot Components ahisigness / Pensacola hisigness / Pensacola realment: coxious Weed Labeled Lo: EMARKS: Veed Seed - Crabgrass, M. reyogness, M.	No. Conteners in Lethida Policia State Policia Policia State Policia P	Location No. Contains	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Face) 73 + 8 (Labeled (S) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et W. 50 b are Bood Components ahlaigrass / Pensacola reatment: costons Weed Labeledit.b: EMARKS: Need Seed - Crabgrass, M ample must be relabeled to	No. Conteners if television rose sixto 95.00 Sedge. Pigweed, lot Browntop) o reflect current pic	Location No. Contains	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Face) 73 + 8 (Labeled (S) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00
et W. 50 b ure Boat Components arhingrass / Pensacota arhingrass / Pensacota reatment: oxious Weed Labeled/Lb: EMARKS: Veed Seed - Crabgrass, I. veed Seed - Crabgrass, I. arapie must be reliabeled b fislabeled as to pure seed.	No. Conteners if Library Liprary Lipr	Location No. Contains	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Face) 73 + 8 (Labeled (S) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00
respector: JHW 85 et W. 50 lb to the Commonwealth of the Commonwea	No. Conteners if No. Conteners in special state of the special state of	Location No. Contains	Harv 9/1/2016 re Sampled: 26 Frand 65.0 90.23 NERT OTHER CROP	Gardenia I (Co. Face) 73 + 8 (Labeled (S) 4,00 0,75 0,25	00000001 SERD 005 005 005 005 005 005 005 005 005 00