2023-2024 Cool-Season Forages Official Variety Trial Report

Marcelo Wallau, Maria Elena Mailhos, Cheryl Mackowiak and Diwakar Vyas

The UF/IFAS 2023-24 cool-season forages variety is a partnership between the UF/IFAS Forage Team, forage breeders and the seed industry, to test commercially available and experimental small grains (rye, oat, triticale and wheat) and ryegrass varieties. Data from those trials can help forage breeders and managers to assess performance of improved materials and monitor disease resistance breakdown. These results help us refining the variety recommendations lists which are updated annually (https://edis.ifas.ufl.edu/publication/AA266). This year we had a total of 89 entries, representing 15 companies and breeding programs. We conducted two separate trials, a traditional multi-cut, focusing on hay and grazing use, and single-cut targeting silage production for the region. The multi-cut was located at the Plant Sciences Research and Education Unit (PSREU) in Citra, FL; and the single-cut was on farm, at two dairies: White Oak in Lafayette county, and UF Dairy in Alachua County, FL. For the single cut trial, all forages were harvested at the time, defined by farm management prior to planting spring corn (i.e., not based on maturity). The multi-cut trial followed a 4-week cutting interval. Protocols, planting and harvesting dates are included below. A separate disease nursery was planted at the PSREU with all entries in both trials. Moreover, we implemented demonstration sites in four dairies in the region, as part of the Milk Check-Off program. Those data are replicated, but not part of the official variety trial. Results from the 2022-23 and 2023-24 milk-check off demonstration plots are presented at the end of this report.

Single-cut

- The trail was conducted in two locations, on farm, and followed farm management schedules. Both locations were irrigated using wastewater throughout the season, along with a starter chemical fertilizer.
- Plots where planted on 10/26/23, at 30 lbs/A for ryegrass and 90 lbs/A for small grains.
- All cultivars were harvested at the same time, independent of maturity, following farm schedule. Harvest date was 2/22/2024
- Target fertilization was between 120 – 150 lbs/A of N.

Multi-cut

- This was conducted at the Plant Science Research and Education Unit in Citra, FL.
- Plots were planted on 10/27/23, at 30 lbs/A for ryegrass and 90 lbs/A for small grains.
- Fertilization followed a 30 + 50 lbs/A N prior to the first cut, then 50 lbs/A of N after each cut.
- No fungicides or insecticides were used.
- Plots were harvested four times throughout the season, on 1/17/24 (Harvest 1); 2/14/24 (Harvest 2); 3/14/24 (Harvest 3); and /10/24 (Harvest 4).

Disease nursery

- Planted at the PSREU, includes all materials from both multi-cut and single cut trials.
- No cut was applied. Main diseases observed were leaf spots, rusts and virus.

- Diseases were scored twice, on 3/19/2024 and 4/12/2024, using a scale from 0-9. Data was converted to percentage incidence for analysis. A high percentage indicates greater disease incidence.

Disclosure: this variety test is conducted independently by UF/IFAS faculty and is open for all seed companies and breeding programs. There are other varieties available in the market that are not included in the test, which does not mean they do not perform well. Our variety recommendation lists consider results from multi-location trials, in collaboration with Auburn University and the University of Georgia, and include varieties that have shown superior performance over a three year testing period. Varieties not entered in the test are liable to be dropped from the recommendation lists because of limiting data.

For more information, email the Forage Team at ***forages@ifas.ufl.edu***, or contact your **local extension agent**.

University of Florida/Institute of Food and Agricultural Sciences

Results from the 2023-2024 Cool-season forage variety trial (single cut trial)

Marcelo Wallau, Maria Elena Mailhos, Cheryl Mackowiak and Diwakar Vyas

UF IFAS UNIVERSITY of FLORIDA

FORAGE TEAM

Table 1: Oat, single cut biomass production and nutritive value

Variety	Company	Biomass[1]	ADF	Ash	CP	ESC	IVTDMD48h	NSC	TDN	aNDF 48h	NDFd 48h
		lb DM/ac	*% DM*								*% NDF*
Cadillac	TriCal	3,338	29.8	7.8	18.2	6.4	82.9	9.2	67.4	50.3	71.2
Maximus	Specilty seeds	2,954	28.1	7.6	18.5	6.5	**84.6**	9.8	**69.2**	49.6	72.9
FL13084-8	UF	3,245	**32.2**	6.9	17.5	5.7	79.0	8.2	64.9	**55.9**	67.1
Horizon 214	Mixon	2,970	28.7	8.3	**20.3**	5.2	**84.4**	8.2	**68.6**	48.9	72.9
Horizon 306	Mixon	2,676	26.3	8.2	19.3	6.0	**86.1**	9.7	**71.1**	47.2	**74.9**
Horizon 578	Mixon	3,551	28.5	8.1	18.9	5.9	**84.9**	8.9	**68.7**	49.4	**73.9**
Horizon 720	Mixon	3,744	**34.3**	6.2	15.1	5.9	75.5	8.4	62.6	**58.3**	63.1
Legend 567	Mayo Ag	**3,876**	**33.6**	6.7	16.5	5.6	75.6	7.5	63.4	**58.0**	63.7
	Mean	*3,294*	*30.2*	*7.5*	*18.0*	*5.9*	*81.6*	*8.7*	*67.0*	*52.2*	*70.0*
	SE	*307*	*0.7*	*0.5*	*0.6*	*0.5*	*0.9*	*0.7*	*0.8*	*0.7*	*1.5*

[1] *Numbers in bold meaning top performing variety within the response observed (statistically differ at P = 0.05 from the overall mean)*

Table 2: Rye, single cut biomass production and nutritive value

Variety	Company	Biomass[1]	ADF	Ash	CP	ESC	IVTDMD48h	NSC	TDN	aNDF 48h	NDFd 48h
		lb DM/ac	*% DM*								*% NDF*
FL405	UF	**3,051**	**37.9**	4.2	14.6	6.0	65.2	7.8	58.9	**63.9**	50.2
KWS H95075	KWS	1,886	24.7	6.8	19.9	**8.1**	**84.1**	**11.4**	**72.7**	48.0	**73.7**
KWS SH06	KWS	2,068	25.4	7.8	**21.1**	**7.9**	**83.9**	10.4	**72.1**	47.5	73.0
KWS SH07	KWS	2,424	28.6	6.9	18.5	6.4	79.9	9.1	68.7	52.2	67.6
Kelly Grazer III	Control	2,331	27.1	**8.0**	20.4	6.0	**83.6**	9.0	**70.2**	48.7	**71.4**
	Mean	*2,352*	*28.7*	*6.7*	*18.9*	*6.9*	*79.4*	*9.5*	*68.5*	*52.0*	*67.2*
	SE	*321*	*0.9*	*0.6*	*1.1*	*0.4*	*1.0*	*0.5*	*0.9*	*1.2*	*1.4*

[1] *Numbers in bold meaning top performing variety within the response observed (statistically differ at P = 0.05 from the overall mean)*

Table 4: Triticale, single cut biomass production and nutritive value

Variety	Company	Biomass[1]	ADF	Ash	CP	ESC	IVTDMD48h	NSC	TDN	aNDF 48h	NDFd 48h
		lb DM/ac	*% DM*								*% NDF*
FL1143	TriCal	3,493	**35.2**	4.2	15.2	6.3	67.6	7.6	61.8	**62.1**	55.4
Surge	TriCal	2,900	30.3	7.1	**18.5**	6.5	**80.6**	8.6	**66.9**	53.8	**70.5**
Trical 342	TriCal	3,554	**34.8**	5.5	16.3	6.1	71.7	7.3	62.1	**60.6**	61.4
Trical HTF	TriCal	2,881	32.7	**7.9**	**20.2**	4.4	**79.0**	5.9	64.3	55.8	66.7
Trical HTG	TriCal	3,047	32.4	5.9	16.7	7.0	77.6	**9.3**	64.7	56.4	67.0
	Mean	*3,175*	*33.1*	*6.1*	*17.4*	*6.1*	*75.3*	*7.8*	*63.9*	*57.7*	*64.2*
	SE	*307*	*0.7*	*0.6*	*0.3*	*0.6*	*1.2*	*0.7*	*0.7*	*1.0*	*1.5*

[1] *Numbers in bold meaning top performing variety within the response observed (statistically differ at P = 0.05 from the overall mean)*

Table 3: Ryegrass, single cut biomass production and nutritive value

Variety	Company	Biomass[1]	ADF	Ash	CP	ESC	IVTDMD48h	NSC	TDN	aNDF 48h	NDFd 48h
		lb DM/ac	*% DM*								*% NDF*
Gulf	Control	3,543	**27.6**	9.2	18.6	7.7	89.9	12.0	69.7	45.7	80.9
Ranahan	Mountain View	3,047	25.1	8.3	**19.0**	8.0	90.4	12.5	**72.3**	43.9	82.1
	Mean	*3,295*	*26.4*	*8.7*	*18.8*	*7.9*	*90.2*	*12.2*	*71.0*	*44.8*	*81.5*
	SE	*575*	*0.9*	*0.4*	*0.2*	*0.7*	*0.9*	*0.7*	*0.9*	*0.8*	*2.1*

[1] *Numbers in bold meaning top performing variety within the response observed (statistically differ at P = 0.05 from the overall mean)*

Disclosure

This variety test is conducted independently by UF/IFAS faculty and is open for all seed companies to enter varieties for the test.

Management information

Trial was conducted at the UF Dairy Unit, Alachua, FL
Planting date: 10/26/2023
Planting rate: Oat, rye, triticale: 90 lb/ac; Annual Ryegrass: 30 lb/ac
Fertilizer Appication: Wastewater irrigation throughout the season plus 50 lb N/ac (early Dec). Estimated total N ~ 120 lbs/A.
Pesticide application: Aim (2 oz/ac) + 2,4D (2 pts/ac).
Harvest date: 2/22/24

Contact

For more information, contact forages@ifas.ufl.edu

University of Florida/Institute of Food and Agricultural Sciences

Results from the 2023-2024 Cool-season forage variety trial (multi cut)

Marcelo Wallau, Maria Elena Mailhos, Cheryl Mackowiak and Diwakar Vyas

UF IFAS UNIVERSITY of FLORIDA

FORAGE TEAM

Table 1. Annual ryegass varieties yield by harvest and Total yield

Variety	Company	Harvest 1[1,2]		Harvest 2		Harvest 3		Harvest 4		Total Yield
		lb DM/ac								
Gulf	Control	**623**	c	**1,353**	b	1,793	a	2,162	a	6,453
Lonestar	GO Seeds	522	d	1,219	c	2,117	b	**2,681**	a	6,539
More	GO Seeds	507	c	1,167	b	1,531	ab	1,890	a	5,095
Tetrastar	GO Seeds	**784**	c	1,184	bc	1,724	b	2,521	a	6,212
RANAHAN	Mountain View	359	c	1,275	b	1,918	a	2,367	a	5,919
Earlyploid	Ragan and Massey	496	d	1,418	c	**3,132**	a	2,248	b	**7,293**
Prine	Ragan and Massey	534	c	1,052	bc	1,508	b	2,382	a	5,477
Ed	Smith Seeds	628	c	1,262	b	1,888	a	2,312	a	6,090
FrostProof	Smith Seeds	402	c	1,180	b	2,453	a	2,075	a	6,110
SELWD19-12	Smith Seeds	163	c	1,205	b	1,678	b	2,660	a	5,705
SELWDMACK	Smith Seeds	21	b	409	b	1,481	a	1,769	a	3,679
Verdure	Smith Seeds	622	b	1,149	b	2,055	a	2,395	a	6,221
FL4XLATE	UF	**826**	c	1,428	b	**2,846**	a	**2,823**	a	**7,923**
FLPR2XGRB	UF	233	c	**1,667**	b	**3,397**	a	2,092	b	**7,388**
FLSME	UF	368	c	**1,512**	b	**3,133**	a	1,878	b	**6,890**
Jackson	Wax	147	c	1,066	b	1,976	a	2,122	a	5,311
ME-4	Wax	365	c	1,135	b	1,862	a	1,993	a	5,355
ME-94	Wax	216	c	1,027	b	1,543	b	2,472	a	5,258
Nelson	Wax	590	c	1,432	b	2,327	a	2,444	a	**6,794**
WAX Marshal	Wax	282	c	1,116	b	1,423	b	2,076	a	4,897
WMWL	Wax	221	c	1,009	b	1,592	a	2,061	a	4,882
WMWL-2	Wax	480	c	1,030	bc	1,538	b	2,128	a	5,176
	Mean	*427*		*1,195*		*2,042*		*2,252*		*5,939*
	SE	*141*		*130*		*278*		*221*		*368*

[1] *Numbers in bold meaning top performing variety within harvest date (statistically differ at P = 0.05 from the overall mean)*

[2] *Different letters meaning statistical differences for each variety between harvest dates*

Table 2. Oat varieties yield by harvest and Total yield

Variety	Company	Harvest 1[1,2]		Harvest 2		Harvest 3		Harvest 4		Total Yield
		lb DM/ac								
Graham	Clemson	1,209	ab	1,298	ab	1,618	a	801	b	4,926
Scop 85-8	Clemson	1,140	c	1,246	bc	2,181	a	**1,822**	ab	6,389
O23-1007/LA150155B-550	LSU	578	b	963	b	2,016	a	**2,112**	a	5,669
WN23OAT-07/LA170895BS45-1-1	LSU	801	c	1,086	bc	2,055	a	1,467	ab	5,409
WN23OAT-18/LA1706955BSS-2-1	LSU	1,198	b	1,317	ab	1,868	a	1,472	ab	5,855
WN23OAT-25	LSU	**1,734**	b	1,326	b	2,402	a	1,716	b	**7,178**
Horizon 214	Mixon	1,451	a	1,475	a	1,566	a	811	b	5,302
Horizon 306	Mixon	880	c	1,153	bc	2,126	a	1,563	ab	5,722
Horizon 578	Mixon	1,018	b	1,384	b	2,036	a	1,207	b	5,645
Horizon 720	Mixon	**1,968**	a	1,272	b	1,865	a	902	b	6,007
11019	Ragan and Massey	**1,651**	a	1,457	a	1,804	a	1,703	a	6,616
Maximus	Specilty seeds	1,313	b	1,267	b	1,916	a	1,517	ab	6,013
Cadillac	TriCal	1,213	b	**1,542**	b	**2,796**	a	1,114	b	**6,665**
FL13123-50	UF	599	c	1,399	b	**3,302**	a	1,071	bc	6,371
FL13123-54	UF	947	b	1,301	b	2,397	a	947	b	5,592
FL13126-69	UF	794	c	1,250	bc	1,987	a	**1,794**	ab	5,826
	Mean	*1,156*		*1,296*		*2,121*		*1,376*		*5,949*
	SE	*269*		*117*		*223*		*216*		*350*

[1] *Numbers in bold meaning top performing variety within harvest date (statistically differ at P = 0.05 from the overall mean)*

[2] *Different letters meaning statistical differences for each variety between harvest dates*

Disclosure

This variety test is conducted independently by UF/IFAS faculty and is open for all seed companies to enter varieties for the test.

Management information

Trial was conducted at the Plant Science Research and Education Unit, in Citra, FL
Planting date: 10/27/2023
Planting rate: Annual Ryegrass: 30 lb/ac; Oat: 90 lb/ac
Fertilizer Appication: N-P-K rates of 30-10-30 (1 week after planting), 50-0-25 (3 weeks after planting). After every harvest 50 lb N/ac were applied.
Pesticide application: Weedar 64 @ 32 oz/ac for brassicas (11/21/23).
Harvests: (1) 1/17/24; (2) 2/14/24; (3) 3/14/24; (4) 4/10/24

Contact

For more information, contact forages@ifas.ufl.edu

University of Florida/Institute of Food and Agricultural Sciences

Results from the 2023-2024 Cool-season forage variety trial (disease nursery)

Marcelo Wallau, Maria Elena Mailhos, Nicolas Caram, Cheryl Mackowiak and Diwakar Vyas

UF IFAS UNIVERSITY of FLORIDA
FORAGE TEAM

Table 1. Oat varieties disease score by disease (%) and date

Variety	Company	BYDV[1,2]		Leaf Spot[1]		Crown rust (*Puccinia sp.*)				Stem rust (*Puccinia sp.*)			
			SE[3]		*SE*	Mar. 19	*SE*	Apr. 12	*SE*	Mar. 19	*SE*	Apr. 12	*SE*
Graham	Clemson	60	*17* ab[4,5]	11	*6* bc	72	*22* abcd	94	*7* a	0	0 **b**	0	0 **c**
Scop 85-8	Clemson	26	*15* ab	20	*10* abc	59	*27* bcd	69	*24* abcd	0	0 **b**	0	0 **c**
O23-1007/LA150155B-550	LSU	43	*17* ab	10	*6* bc	64	*24* bcd	46	*26* abcd	0	0 **b**	0	0 **c**
WN23OAT-07/LA170895BS45-1-1	LSU	26	*15* ab	11	*6* bc	46	*26* bcd	37	*25* cd	0	0 **b**	0	0 **c**
WN23OAT-18/LA1706955BSS-2-1	LSU	46	*17* ab	37	*16* ab	16	*15* **d**	42	*26* bcd	0	0 **b**	0	0 **c**
WN23OAT-25	LSU	67	*16* a	22	*12* abc	17	*16* cd	58	*28* abcd	0	0 **b**	0	0 **c**
Legend 567	Mayo	23	*14* ab	12	*7* abc	99	*2* a	77	*20* abc	7	2 a	0	0 **c**
Horizon 214	Mixon	36	*16* ab	7	*4* **c**	91	*10* ab	81	*17* abc	0	0 **b**	30	10 a
Horizon 306	Mixon	36	*16* ab	20	*11* abc	87	*13* ab	78	*19* abc	0	0 **b**	0	0 **c**
Horizon 578	Mixon	40	*17* ab	11	*6* bc	46	*27* bcd	41	*26* bcd	0	0 **b**	10	3 b
Horizon 720	Mixon	50	*17* ab	11	*6* bc	80	*19* abc	93	*8* ab	0	0 **b**	0	0 **c**
11019	Ragan and Massey	16	*12* **b**	46	*17* a	62	*26* bcd	62	*26* abcd	0	0 **b**	0	0 **c**
Maximus	Specilty seeds	50	*17* ab	18	*10* abc	43	*26* bcd	43	*26* bcd	0	0 **b**	0	0 **c**
Cadillac	TriCal	19	*13* **b**	7	*4* **c**	86	*14* ab	79	*18* abc	0	0 **b**	0	0 **c**
FL13084-8	UF	33	*16* ab	16	*9* abc	15	*14* **d**	15	*14* **d**	0	0 **b**	0	0 **c**
FL13123-50	UF	19	*13* **b**	10	*6* bc	88	*12* ab	78	*19* abc	0	0 **b**	0	0 **c**
FL13123-54	UF	29	*15* ab	11	*6* bc	73	*21* abcd	73	*21* abcd	0	0 **b**	17	6 ab
FL13126-69	UF	57	*17* ab	18	*10* abc	22	*19* cd	54	*26* abcd	0	0 **b**	0	0 **c**
	Mean	*38*		*17*		*59*		*62*		*0*		*3*	

[1] *BYDV (Barley Yellow Dwarf Virus) and Leaf spot (non specified) were measured just on 3/12/2024*

[2] *Disease scores evaluated on scale from 0 - 9, and reported as percentage.*

[3] *Analysis was performed using a betta distribution, resulting in different standard errors for each variety mean*

[4] *Letters in bold meaning top performing (least disease) within the variable (statistically differ at P = 0.05 from the overall mean)*

[5] *Different letters represent statistical differences within each disease variable (statistically differ at P = 0.05 from the overall mean)*

Table 2. Rye varieties disease score by disease (%) and date

Variety	Company	BYDV[1,2]		Leaf Spot[1]		Leaf rust (*Puccinia sp.*)	
			SE[3]		*SE*	Apr. 12	*SE*
FL405	UF	20	*5* **b**[4,5]	9	*5* ab	0	*0* **b**
Kelly Grazer III	Control	26	*5* ab	11	*6* ab	4	*6* a
KWS SH06	KWS	37	*6* a	31	*11* ab	0	*0* **b**
KWS SH07	KWS	26	*5* ab	36	*12* a	0	*0* **b**
KWS H95075	KWS	16	*4* **b**	8	*5* **b**	0	*0* **b**
	Mean	*25*		*19*		*1*	

[1] *BYDV (Barley Yellow Dwarf Virus) and Leaf spot (non specified) were measured just on 3/12/2024*

[2] *Disease scores evaluated on scale from 0 - 9, and reported as percentage.*

[3] *Analysis was performed using a betta distribution, resulting in different standard errors for each variety mean*

[4] *Letters in bold meaning top performing (least disease) within the variable (statistically differ at P = 0.05 from the overall mean)*

[5] *Different letters represent statistical differences within each disease variable (statistically differ at P = 0.05 from the overall mean)*

Table 3. Triticale varieties disease score by disease (%) and date

Variety	Company	BYDV[1,2]		Leaf Spot	
			SE[3]		*SE*
FL1143	TriCal	47	*10* a[4,5]	36	*9* ab
Surge	TriCal	47	*10* a	50	*9* a
Trical 342	TriCal	23	*8* ab	40	*9* bc
Trical HTF	TriCal	37	*9* ab	29	*8* bc
Trical HTG	TriCal	17	*7* **b**	16	*6* **c**
	Mean	*34*		*34*	

[1] *BYDV (Barley Yellow Dwarf Virus) and Leaf spot (non specified) were measured just on 3/12/2024*

[2] *Disease scores evaluated on scale from 0 - 9, and reported as percentage.*

[3] *Analysis was performed using a betta distribution, resulting in different standard errors for each variety mean*

[4] *Letters in bold meaning top performing (least disease) within the variable (statistically differ at P = 0.05 from the overall mean)*

[5] *Different letters represent statistical differences within each disease variable (statistically differ at P = 0.05 from the overall mean)*

Table 4. Annual ryegrass varieties disease score by disease (%) and date

Variety	Company	BYDV[1,2]		Leaf Spot		Leaf rust (*Puccinia sp.*)	
			SE [3]		*SE*	Apr. 12	*SE*
Gulf	CHECK	2	*0.04* b[4,5]	0	*0.0* **b**	1	*0.02* b
Lonestar	GO Seeds	2	*0.04* b	10	*0.1* a	2	*0.04* b
More	GO Seeds	6	*0.11* ab	0	*0.0* **b**	10	*0.16* ab
Tetrastar	GO Seeds	2	*0.04* b	0	*0.0* **b**	1	*0.02* b
RANAHAN	Mountain View	2	*0.04* b	0	*0.0* **b**	1	*0.02* b
Earlyploid	Ragan and Massey	0	*0.00* **c**	0	*0.0* **b**	7	*0.11* ab
Prine	Ragan and Massey	2	*0.04* b	0	*0.0* **b**	5	*0.09* ab
Ed	Smith Seeds	2	*0.04* b	0	*0.0* **b**	5	*0.09* ab
FrostProof	Smith Seeds	5	*0.08* ab	0	*0.0* **b**	1	*0.02* b
SELWD19-12	Smith Seeds	8	*0.13* ab	0	*0.0* **b**	7	*0.11* ab
SELWDMACK	Smith Seeds	2	*0.04* b	0	*0.0* **b**	5	*0.09* ab
Verdure	Smith Seeds	0	*0.00* **c**	0	*0.0* **b**	2	*0.04* b
FL4XLATE	UF	0	*0.00* **c**	3	*0.0* a	1	*0.02* b
FLPR2XGRB	UF	0	*0.00* **c**	10	*0.1* a	0	*0.00* **c**
FLSME	UF	0	*0.00* **c**	0	*0.0* **b**	7	*0.11* ab
Jackson	Wax	2	*0.04* b	0	*0.0* **b**	4	*0.06* b
ME-4	Wax	3	*0.06* ab	0	*0.0* **b**	25	*0.32* a
ME-94	Wax	3	*0.06* ab	0	*0.0* **b**	9	*0.14* ab
Nelson	Wax	3	*0.06* ab	0	*0.0* **b**	5	*0.09* ab
WAX Marshal	Wax	0	*0.00* **c**	0	*0.0* **b**	10	*0.16* ab
WMWL	Wax	12	*0.18* a	0	*0.0* **b**	7	*0.11* ab
WMWL-2	Wax	10	*0.16* a	0	*0.0* **b**	7	*0.11* ab
	Mean	3.10		1.07		5.55	

[1] *BYDV (Barley Yellow Dwarf Virus) and Leaf spot (non specified) were measured just on 3/12/2024*

[2] *Disease scores evaluated on scale from 0 - 9, and reported as percentage.*

[3] *Analysis was performed using a betta distribution, resulting in different standard errors for each variety mean*

[4] *Letters in bold meaning top performing (least disease) within the variable (statistically differ at P = 0.05 from the overall mean)*

[5] *Different letters represent statistical differences within each disease variable (statistically differ at P = 0.05 from the overall mean)*

Disclosure

This variety test is conducted independently by UF/IFAS faculty and is open for all seed companies to enter varieties for the test.

Management information

Trial was conducted at the Plant Science Research and Education Unit, in Citra, FL

Planting date: 12/1/2023

Planting rate: oat, rye, tritucae 90 lb/ac; ryegrass 30 lb/ac

Fertilizer Appication: N-P-K rates of 30-10-30 (1 week after planting), 50-0-25 (3 weeks after planting).

Harvest: No harvests were made

Contact

For more information, contact forages@ifas.ufl.edu

University of Florida/Institute of Food and Agricultural Sciences

Results from the 2023-2024 Milk Check off project

Marcelo Wallau, Cheryl Mackowiak, Diwakar Vyas and Maria Elena Mailhos

UF IFAS UNIVERSITY of FLORIDA
FORAGE TEAM

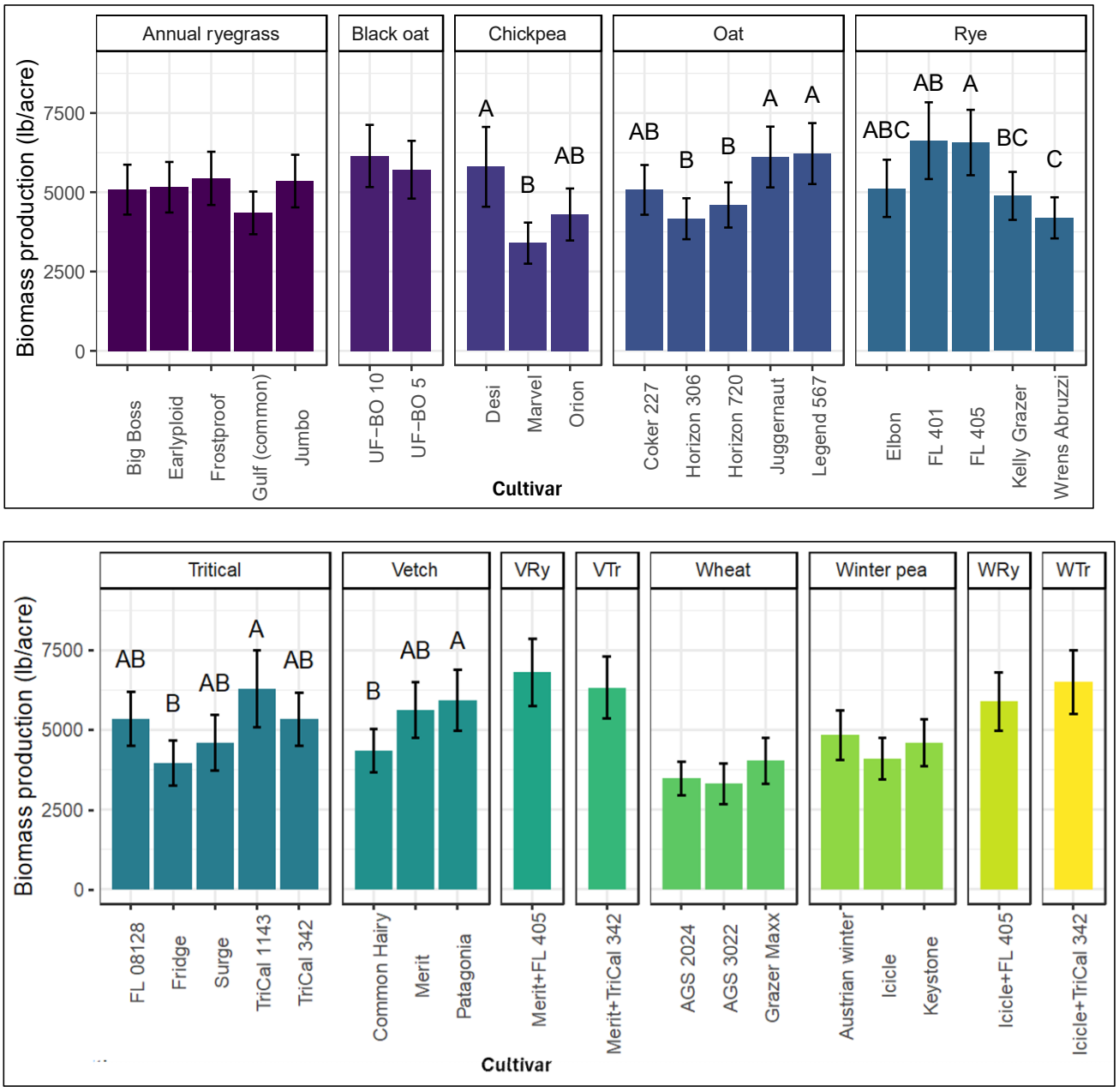

Figure 1. Two year Biomass production (lb DM/ac) for cultivars and mixes.

Different letters within species meaning statistical differences (*P = 0.05*)