Buffalograss Management Strategies

Keenan Amundsen 2015 Nebraska Turf Conference

Buffalograss breeding support















Water use

	ET rates		
Turfgrass species and cultivar	Aug. 1982	May 1984	Sept. 198
		-mm d-1	
Buffalograss, Texas Common	5.3a*	4.6ab	4.4a
Centipedegrass, Georgia Common	5.5abc	4.7ab	4.9bc
Bermudagrass, Arizona Common	5.8bcd	4.2a	4.9bc
Bermudagrass, Tifgreen	5.4ab	4.6ab	5.2c
Bermudagrass, Tifway	5 0do	410	4 9ba
Seashore paspalum, Adalayd	Well watered turf		
Zoysiagrass, Meyer	~5.6"/month		
St. Augustinegrass, Texas Common	-5.6 /month		
Zoysiagrass, Emerald	<5.5 considered low ET rate		
Bluegrama, Common	5.7bca		
Bahiagrass, Argentine	6.3f	-	
Tall fescue, Kentucky 31	7.1g	5.1b	
cv	7.3	11.8	12.8
609 released in 1991		Kim an	d Beard, 198

Buffalograss is dioecious



Hermaphrodites



Buffalograss

- Buchloë dactyloides (Nutt.) Engelm. syn. Bouteloua dactyloides (Nutt.) Columbus
- Warm season, polyploid, perennial species
- Fine textured
- Dark bluish-green color
- Native to the Great Plains
- Exceptional heat, drought, and cold tolerance
- Stoloniferous
- Dioecious



Highly stoloniferous



Exceptional sod former



Seeded and vegetative types





Establishment recommendations

- Low maintenance after establishment
- Weed control is critical
- Existing turf?
- Don't overwater or over fertilize
- Don't neglect the turf either (water and fertilize)
- Use a starter fertilizer
- Mow frequently as soon as possible

Establishment demonstration





Weed control at seeding

Brand Name	Rate	Timing	Target	
Tenacity	5 fl oz/A	post	Broadleaves, sedge, crabgrass, goosegrass	
Dismiss	8 fl oz/A	pre + post	Broadleaves, sedge	
Solitaire	16 oz/A	pre + post	Broadleaves, sedge	
Drive XLR8	64 fl oz/A	post	Crabgrass, Broadleaves	
SquareOne	12 oz/A	post	Crabgrass, Broadleaves	

Herbicides Applied at or Shortly after Seeding Are Effective for Weed Control in Seedling Buffalograss

Luqi Li,* Matthew D. Sousek, and Zachary Reicher

Abstract

Herbickies anglied shortly after seeding of buffelingsans (Buchles disclosive) shall prigamil; and help netwoe weed pressure and macinities establishment of buffelingsans. This study evaluated 12 residually except developed herbickies for that salety and weed control shern applied at seeding or 0 or 2 vendes after emergence (WRC) of Control or Surfacionor buffelingsan; Hinnary weed operation of the second or the seedingsan; Hinnary weed operation of the seedingsans of the seedings of the seedingsan; Hinnary weed operation of the seedingsans of the seedings of the seedingsans of the seedings of the seedingsans of the seedings of the seedingsans of the seedingsans of the seedingsans of the seedings of the seedingsans of the seedings of the seedings of the seedingsans of the seedingsans of the seedings of the seedings of the seedings of the seedings of the seedingsans of the seedings of the seedings of the seedingsans of the seedings of the seedingsans of the seedingsans

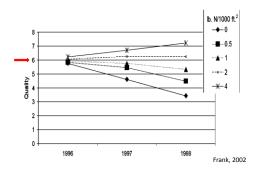
Luqi Li and Matthew D. Sousek, Dep. of Agronomy and Horticulture, Univ. of Nebrasked Limoth, Lincohi, N. Gelss, All Lincohi, Lincohi, N. Edissis, Zachary Reichar, Bayer Crop Sciences, 2485 (Chy. H.A. Deuter, N. Edissis). Reaceived 27 Apr. 2015. Accepted 2 Aug. 2015. "Generational author (imprinth968) thoration." All Sciences after freedment, All Lincohi, All Lincohi,

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Post-establishment management

• Low vs. no maintenance (lawn vs native prairie)

Fertilizer Recommendations



Irrigation requirements

1 inch per month from rain or supplemental irrigation

Weed control once established

- Spring Preemergence (Essential application)
 - Prodiamine
 - Pendimethalin
 - $\bullet \ \ Dithiopyr* (not in spring 1 st year until well rooted)$
- Dormant apps (late fall-early spring)
 - Round-up
 - Broadleaf weeds
 - Cool-season turfgrass
 - Make sure turf is fully dormant in fall
 - · Applying too late in spring will delay green-up

Labeled Herbicides	a.i.	application	control
Tenacity	mesotrione	pre/post	BL,G,S
Quicksilver T&O	carfentrazone	post	BL
Dismiss	sulfentrazone	post	BL,G,S
Drive XLR8	quinclorac	post	BL,G
SquareOne	quinclorac+carfentrazone	post	BL,G
Solitare	sulfentrazone+quinclorac	post	BL,G,S
Onetime	quinclorac+mecoprop+ dicamba	post	BL, G
Echelon	sulfentrazone+prodiamine	pre/post	BL,G,S
Confront	triclopyr+clopyralid	post	BL
Speedzone	carfentrazone+2,4- D+Mecoprop+Dicamba	post	BL
Speedzone Southern	carfentrazone+2,4- D+Mecoprop+Dicamba	post	BL
Barricade	Prodiamine	Pre	BL,G
Dimension*(no spring 1st year)	dithopyr	Pre/early post	BL,G
Pendulum Aquacap	Prodiamine	Pre	BL,G
Gallery	Isoxaben	Pre	BL

Labeled Herbicide	a.i.	application	control
Plateau	imazapic	pre/post	BL, G, CS
Specticle	indaziflam	pre	BL, G, S
Celsius	thiencarbazone- methyl+iodusulfuron- methyl+Dicamba	post	BL, G, S
Surge	sulfentrazone+2,4- D+mecoprop+dicamba	post	BL
Katana	flazasulfuron	pre/post	BL, G, S, CS
Manor	metsulfuron methyl	post	BL, G, CS
Certainty	Sulfosulfuron	post	BL, G, S, CS
Surflan A.S.	oryzalin	Pre	BL, G
Ronstar G.	Oxadiazon	pre	BL, G
Trimec Bentgrass Formula	Dimethalamine salt+ Dimethalamine salt of 2,4- D+Dimenthalamine salt of dicamba	post	BL

• Make sure to read and follow label Recommendations!



What to expect?



Shade (in)tolerance



Traffic tolerance



Disease tolerance





Spring green up



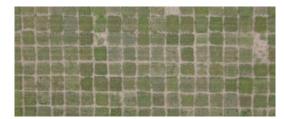
Submersion tolerance (?)



Future buffalograss cultivars



Elite germplasm evaluation



Used as a border



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