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Cleanwave supplies are short; What are my options for optimizing dogfennel control with GrazonNext HL?

By Brent Sellers

Cleanwave has become one of the “go to” products for dogfennel control in pastures over the past several years. Unfortunately, it will no longer be sold once the current supply is gone. But have no fear, there are several options that will provide similar levels of dogfennel control.

GrazonNext HL + Cleanwave was probably one of the most popular combinations in pastures where tropical soda apple and dogfennel were problematic. If you

currently have these weeds in your pasture, applying GrazonNext HL at 1.5 pt/A plus either 2,4-D amine at 3 pt/A, 2,4-D amine + dicamba (WeedMaster, Latigo, others) at 2 pt/A, or Pasturegard HL at 8 fl oz/A will provide similar levels of control observed when tankmixing Cleanwave at 14 oz/A (Figure 1). These combinations were tested on 42-inch dogfennel as well as dogfennel at least 5 feet tall with similar results.

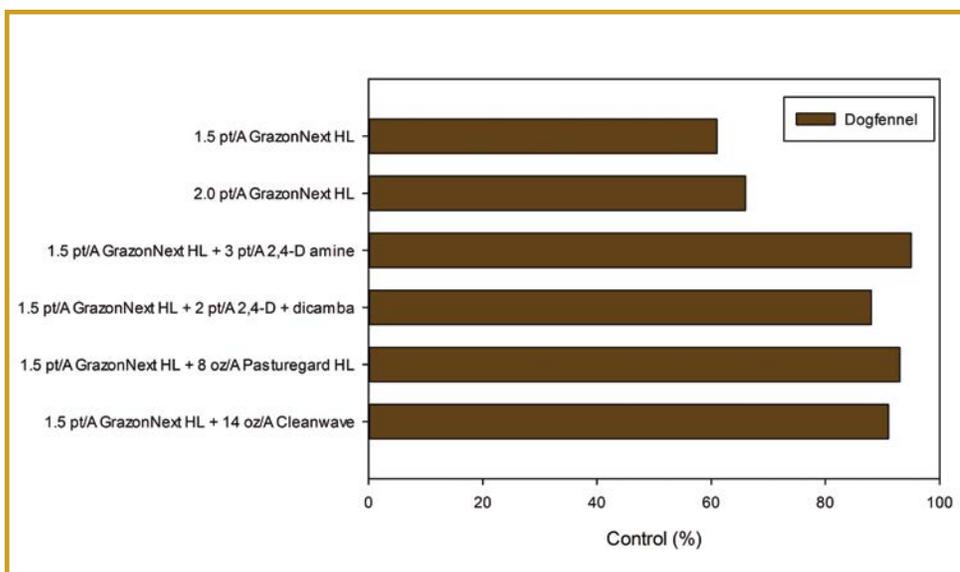
If tropical soda apple is not present in sufficient numbers to warrant a broadcast application of GrazonNext HL, dogfennel control can be achieved using either 2,4-D amine, 2,4-D amine + dicamba, or Pasturegard HL (Table 1). When dogfennel is less than 36-inches tall, all three herbicides will work quite well, but keep in mind that as plants approach 36-inches, it will be important to increase the application rate

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Figure 1. Response of dogfennel to 1.5 and 2.0 pt/A GrazonNext HL alone and tank-mixed with either 3 pt/A 2,4-D amine, 2 pt/A 2,4-D + dicamba, or 8 fl oz/A Pasturegard HL.



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of 2,4-D or 2,4-D + dicamba for acceptable control. Once plants grow larger than 36 inches, control with 2,4-D and 2,4-D + dicamba becomes highly variable. If plants are larger than 36 inches tall, Pasturegard HL provides the highest level of control, even on fairly large plants.

If you have questions concerning dogfennel control in your pasture, please contact your local county agent.

Table 1. Herbicide options for dogfennel control in pastures. Herbicide costs are estimated and may vary upon the amount purchased; cost of application is not included in the herbicide cost.

Active ingredients	Trade names	Rate	Cost/A	Comments
2,4-D amine	Many	1.5-2 qt/A	\$7	Apply to dogfennel less than 36 inches tall; apply higher rates as approaching 36 inches.
2,4-D amine + dicamba	Weed Master, others	1.5 qt/A	\$8	Apply to dogfennel less than 36 inches tall.
fluroxypyr + triclopyr	Pasturegard HL	1-1.5 pt/A	\$14-21	Apply 1 pt/A when plants are less than 36 inches tall; apply 1.5 pt/A to plants > 36 inches. Applications of 1.5 pt/A are very effective on large dogfennel exceeding 5 ft in height.
aminopyralid + 2,4-D amine	GrazonNext HL	1.5 pt/A	\$8	Apply alone to dogfennel less than 30 inches tall when pastures are also infested with tropical soda apple; when plants are > 30 inches tall, tank-mix GrazonNext with either 3 pt/A 2,4-D amine, 2 pt/A 2,4-D amine + dicamba, or 8 fl oz/A Pasturegard.

Faculty & Staff News

After 35 years of dedicated service to the UF/IFAS, Range Cattle REC, **Ms. Toni Wood** retired on March 29th. During her time Toni worked with various faculty members assisting them with their research which involved working with animals, collecting data, and helping students and interns on projects. In her last few years, Toni served as a receptionist and assistant to the office manager. We know she is excited to begin this new adventure called retirement, but here, she will be greatly missed!

On April 1st **Dr. Phillip Lancaster** and **Dr. Sarah Lancaster** joined our faculty. Phillip accepted the role of Assistant Professor, Beef Cattle Management with a research (60%) and extension (40%) appointment. Meanwhile, Sarah accepted a 1/2 time appointment as an Extension Scientist (100%) with a focus on weed control on natural landscapes.

Research in Progress with Dr. Joao Vendramini

Monensin has been an effective feed additive to improve performance of cattle in feedlots. Cattle receiving monensin usually have increased average daily gain and feed efficiency. However, there is little information on the effectiveness of monensin on the performance of cattle

grazing tropical forages. Two experiments were conducted at the Range Cattle Research and Education Center to evaluate the effects of stocking rates and monensin supplementation on forage characteristics and performance of beef heifers grazing warm-season grasses. In experiment 1, the treatments were the factorial combination of two stocking rates, 0.8 or 1.2 heifers/acre and supplementation with monensin (200 mg/d) or control (no monensin). The heifers received 0.4 kg of a concentrate supplement (14% CP and 78% TDN) daily. The preliminary results show that pastures grazed with greater stocking rates had significant lesser forage mass (2,300 vs. 2,800 lb/ac) however, there was no effect of stocking rates on forage CP (8.5%) and digestibility (49.7%). Pastures grazed by heifers receiving monensin or control had similar characteristics. Average daily gain was not affected by stocking rate or monensin supplementation (mean = 0.44 kg/d). In experiment 2, twenty four heifers were distributed in eight drylot pens for forage DM intake and total DM intake measurements. Treatments were supplementation with monensin (200 mg/d) or control (no monensin). All animals received



0.4 kg of concentrate supplement daily. Ground stargrass (*Cynodon nlemfuensis*) hay (11% CP, 51% TDN) was fed. There was no difference in total DM intake (mean = 2.1 % BW) or forage DM intake (mean = 2.0 % BW) between treatments.

These research projects will be repeated this year. The company responsible for the development and marketing of monensin products is participating in this research

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Research in Progress...continued from previous page



and working with the UF/IFAS Range Cattle Research and Education Center to develop management practices to improve efficiency of beef cattle grazing warm-season grasses in Florida.

Student Spotlight

Julius Adewopo, is a UF Soil and Water Science PhD. Student under the supervision of Dr. Maria Silveira. Some of this most recent awards include:



- 2012 CALS Outstanding international student
- 2012 CALS A.S. Herlong Sr. scholarship
- Poster award. 13th Annual SWS Research Forum.
- Alec Courtelis award
- 2012 Best student organizer, UF graduate student council (GSC)

Learn more about Julius
http://rcrec-ona.ifas.ufl.edu/students/julius_adewopo.shtml

On February 4th, Philippe Moriel, a PhD. Student under the supervision of Dr. John Arthington, placed 1st in the Graduate Presentation Award of



Upcoming Events

Beef Cattle Short Course
 May 8 - 10
 Gainesville, FL

Cogongrass Workshop
 May 15
 Indian River REC, Fort Pierce, FL

sprayer calibration. CEUs are currently being applied for and will be available at the meeting.

Agenda
<http://rcrec-ona.ifas.ufl.edu/events/extension/cogongrass05152013F.pdf>

Register by May 3rd
<http://cogongrassworkshop.eventbrite.com/>

Cogongrass is an invasive species that is not going to go away. In fact, it appears to be dramatically increasing throughout the state on our ranches, roadsides, state parks, and natural areas. But the question is, what is the best approach to start combatting cogongrass? This workshop will not only aid in helping you identify cogongrass, but will also provide you with the most recent research-based information regarding the control and management of cogongrass. After lunch the afternoon sessions will cover basic herbicide training as well as

6th Annual Youth Field Day
 June 28
 Range Cattle REC, Ona, FL

Brochure
<http://rcrec-ona.ifas.ufl.edu/images/youthfieldday2013/2013%2520YFD%2520Brochure%2520reduced%2520size.pdf>

Register
<http://ufrcrecyfd2013.eventbrite.com/>

Range Cattle REC Field Day
 October 1
 Range Cattle REC, Ona, FL

the Southern Section of American Society of Animal Science meeting occurred at Orlando, FL. Philippe's presentation was titled "The effects of increasing metabolizable protein supply on acute phase response of beef steers following vaccination. Philippe also won similar award in 2010 in the Graduate Presentation Award of the Western Section of American Society of Animal Science meeting occurred in Denver, CO.

Learn more about Philippe
<http://rcrec-ona.ifas.ufl.edu/students/philipemoriel.shtml>

Recent Publications

- Refereed**
 Silveira, M.L., K. Liu, L.E. Sollenberger, R.F. Follet, and J.M.B. Vendramini. 2013. Short-term effects of grazing intensity and nitrogen fertilization on soil organic carbon pools under perennial grass pastures in the Southeastern USA. *Soil Biology and Biochemistry*. 58:42-49.
- Vendramini, J.M.B., J.D. Arthington, and L.E. Sollenberger. 2013. Effects of increasing rumen-undegradable protein supplementation levels on early weaned calves grazing stargrass. *Crop Science*. 53:322-328.

Silveira, M.L., J.M.B. Vendramini, X. Sui, L.E. Sollenberger, and G.A. O'Connor. 2013. Use of Warm-Season Grasses Managed as Bioenergy Crops for Phytoremediation of Excess Soil Phosphorus. *Agronomy Journal*. 105:95-100.

Silveira, M.L., J.M.B. Vendramini, X. Sui, L.E. Sollenberger, and G.A. O'Connor. 2012. Screening perennial warm-season bioenergy crops as an alternative for phytoremediation of excess soil P. *BioEnergy Research*. DOI 10.1007/s12155-012-9267-2.

Rana, N., B. A. Sellers, J. A. Ferrell, G. E. MacDonald, M. L. Silveira, and J. M. Vendramini. 2013. Impact of soil pH on bahiagrass competition with giant smutgrass (*Sporobolus indicus* var. *pyramidalis*) and small smutgrass (*Sporobolus indicus* var. *indicus*). *Weed Science*. 61:109-116.

EDIS

Silveira, M.L., Vendramini, J.M.B., Silva, H.M.*, and Azenha, M.*. 2012. Nutrient cycling in grazed pastures. Florida Cooperative Extension Service, IFAS, University of Florida. SL-376. <http://edis.ifas.ufl.edu/ss578>

Silveira, M.L., Hanlon, E., Azenha, M.*, Silva, H.M.*. 2012. Carbon sequestration in grazingland ecosystems. Florida Cooperative Extension Service, IFAS, University of Florida. SL-373. <http://edis.ifas.ufl.edu/ss574>

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ABOUT THIS NEWSLETTER

This newsletter is a publication of the UF/IFAS Range Cattle Research and Education Center (RCREC) located in South Central Florida in the heart of Florida's cattle country. Our goal is to keep you up to date on RCREC happenings, publications, research, faculty & student news, upcoming events and bring you beneficial information you can use in your beef cattle or forage operation.

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