



Result Demonstration Report

2013 Herbicide Comparison Study for Controlling Green Briar – Wood County

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Summary

Herbicides have been proven to be an effective method for controlling Green Briar in fencerows for many years. Producers face many choices when selecting various products to be used in forage systems or fencerows for adequate control of weeds.

Objective

The objective of this result demonstration was to compare the herbicide effectiveness on Green Briars along with any other brush and woody species in fencerows.

Materials and Methods

Material and rates of herbicides used for this experiment is shown in Table 1. The Wood County trial was a strip trial that did not have replicated plots but was replicated at a different location in Rains County. Plots were treated on June 3, 2013 using backpack sprayers at the equivalency of 100 gallons per acre. The fencerow plots were 25 feet long and they were spray with a 1 gallon tank mix.



Time: 2:55-3:50

Air Temperature: 82°

Soil Temperature: 81°

Relative Humidity: 51%

Wind: South to Southeast at 3.2 MPH

Cloud Cover: 5%

Table I. Herbicide, Rates, and Surfactant Used In Study

Plot	Herbicide	Rate per Gallon	Surfactant per Gallon
1	Remedy Ultra @ 2%	2.56 oz.	.321 oz./gallon
2	PastureGard HL @ 2%	2.56 oz.	.321 oz./gallon
3	Remedy Ultra @ 2% + Chaparral @ 6.5 oz./100 gal.	2.56 oz. + 0.065 oz./gal	.321 oz./gallon
4	Remedy Ultra @ 2% + Grazon Next HL @ 2%	2.56 oz. + 2.56 oz.	.321 oz./gallon
5	Surmount @ 2%	2.56 oz.	.321 oz./gallon
6	Remedy Ultra @ 1 + Cimarron Plus @ 1.0 oz.	1.28 oz. + 1.0 oz.	.321 oz./gallon
7	DPX-MAT 28 @ 2.5 oz./100 gal	2.5 oz./100 gallon	.321 oz./gallon
8	DPX-MAT 28 @ 4.0 oz./100 gal	4.0 oz./100 gallon	.321 oz./gallon
9	Velpar L @ 2 gallon/mile	1.21 oz.	.321 oz./gallon
10	Remedy Ultra @ 25% - 75% Diesel	1 qt. RU + 3 qtrs. Diesel	0
11	Control		

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

Results and Discussion

Plots were treated on June 3, 2013 using backpack sprayers at the equivalency of 100 gallons per acre. Ratings were taken after treatment at approximately 120 Days after treatment. The results are in Table II. Table III shows the cost of each individual treatment for 1 gallon of tank mix.

Table II. Percent Control for 120 Days after Treatment

Plot	Brush Species Controlled	120 Days After Treatment
1 = Remedy Ultra @ 2%	Green Briar	98%
2 = PastureGard HL @ 2%	Green Briar	100%
3 = Remedy Ultra @ 2% + Chaparral @ 6.5 oz. / 100 gal.	Green Briar	100%
4 = Remedy Ultra @ 2% + Grazon Next HL @ 2%	Green Briar	95%
5 = Surmount @ 2%	Green Briar	90%
6 = Remedy Ultra @ 1%+ Cimarron Plus @ 1.0 oz.	Green Briar	100%
7 = DPX-MAT 28 @ 2.5 oz./100 gal	Green Briar	48%
8 = DPX-MAT 28 @ 4.0 oz./100 gal	Green Briar	50%
9 = Velpar L @ 2 gallon/mile	Green Briar	90%
Remedy Ultra @ 25% - 75% Diesel	Green Briar	100%
11 = Control	Green Briar	0%

Table III. 2013 Green Briar Control Demonstration Cost/Gallon

<u>Chemical (s) and Application Rates</u>	<u>Cost (\$) Per Container*</u>	<u>Cost Per Ounce</u>	<u>Cost Per 1gallon Tank Mix</u>
Remedy Ultra @ 2% = 2.56 oz.	\$70.00/gal	\$0.55/ounce	\$1.40
PastureGard HL @ 2% = 2.56 oz.	110.00/gal	\$0.86	2.20
Remedy Ultra @ 2% = 2.56 oz. + Chaparral @ 6.5 oz. / 100 gal.	\$70.00/gal + \$86.92/lb.	\$0.55 \$5.43	\$1.40 + 0.35 = \$1.75
Remedy Ultra @ 2% = 2.56 oz. + Grazon Next HL @ 2% =2.56 oz.	\$70.00/gal + \$92.00/2 gal	\$0.55 \$0.36	\$1.40 + \$0.92 = \$2.32
Surmount @ 2% =2.56 oz.	\$137.50/2.5gal	\$0.43	\$1.10
Remedy Ultra @ 1% = 1.28/oz.+ Cimarron Plus @ 1.0 oz.	\$70.00/gal + \$11.80/ounce	\$0.55	\$0.70 + \$11.80 = 12.50
DPX-MAT 28 @ 2.5 oz./100 gal	Numbered Product Not on Market		
DPX-MAT 28 @ 4.0 oz./100 gal	Numbered Product Not on Market		
Velpar L @ 2 gallon/mile = 1.21 oz.	\$89.10/ 1 gal	\$0.70	\$0.85
Remedy Ultra (32oz) @ 25% - 75% Diesel (96oz)	\$70.00 + \$4.00/gal	\$.055 + \$0.03	17.50 + 2.88 = \$20.38

* Costs from Red River Specialties (December 2, 2013) for Herbicide Only no Surfactant

Remedy Ultra = \$70.00per 1.0/gal = \$70.00/128 = \$0.55/ounce

PastureGard HL = \$110.00/gal = \$110.00/128 = \$0.86/ounce

Chaparral = \$86.92/pound = \$86.92/16oz = \$5.43/ounce

Surmount = \$55.00/gal or \$137.50 per 2.5/gal = \$137.50 / 320 = \$0.43/ounce

Grazon Next HL = \$92.00 per 2.0/gal. = \$92.00 / 256 = \$0.36/ounce

Cimarron Plus = \$11.80/ounce

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Velpar = $\$89.10/1.0\text{gal} = \$89.10/128 = \$.070/\text{ounce}$

Remedy Ultra and Diesel = $\$.055/\text{oz.} \times 32\text{oz} = \17.5 for Remedy Ultra – Diesel = $\$4.00/\text{gal} = \$4.00/128$
oz. = $\$.03 \times 96\text{oz} = \2.88

Conclusions

This is the second year of a three year multi-county research trail. Very positive results have occurred. Herbicides have proven to be an effective way of controlling Green Briar in fencerows.

Acknowledgements

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