



Result Demonstration Report

2013 Herbicide Comparison Study for Controlling Brush in Fencerows

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Summary

Herbicides have been proven to be an effective method for controlling brush in fencerows for many years. Producers face many choices when selecting various products to be used in either forage systems or fencerows for adequate control of brush and other woody species.

Objective

The objective of this result demonstration was to compare the herbicide effectiveness on Brush in fencerows.

Materials and Methods

Material and rates of herbicides used for this experiment is shown in Table 1. The trial was a strip trial that was not replicated. 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: 10:45-12:55

Air Temperature: 77°

Soil Temperature: 81°

Relative Humidity: 63%

Wind: South to Southeast at 1.3 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 (32 oz. / 100 gal.) |
| 2 | PastureGard HL @ 2% | 2.56 oz. | .321 oz. /gallon (32 oz. / 100 gal.) |
| 3 | Remedy Ultra @ 2% + Chaparral@ 6.5 oz. / 100gal. | 2.56 oz. + 0.065 oz/gal | .321 oz. /gallon (32 oz. / 100 gal.) |
| 4 | Remedy Ultra @ 2% + Grazon Next HL @ 2% | 2.56 oz. +2.56 oz. | .321 oz. /gallon (32 oz. / 100 gal.) |
| 5 | Surmount @ 2% | 2.56 oz. | .321 oz. /gallon (32 oz. / 100 gal.) |
| 6 | Remedy Ultra @ 1 + Cimarron Plus @ 1.0 oz. | 1.28 oz. + 1.0 oz. | .321 oz. /gallon (32 oz. / 100 gal.) |
| 7 | DPX-MAT 28 @ 2.5 oz./100 gal | 2.5 oz./100 gallon | .321 oz. /gallon (32 oz. / 100 gal.) |
| 8 | DPX-MAT 28 @ 4.0 oz./100 gal | 4.0 oz./100 gallon | .321 oz. /gallon (32 oz. / 100 gal.) |
| 9 | Velpar L @ 2 gallon/mile | 1.21 oz. | .321 oz. /gallon (32 oz. / 100 gal.) |
| 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. *The fence row demonstration consisted of species such as oak, hickory, elm, sumac, green briar, and dewberry.* Ratings were taken after treatment at approximately 120 Days. 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% | Mixed Species | 70% |
| 2 = PastureGard HL@ 2% | Mixed Species | 90% |
| 3 = Remedy Ultra @ 2% + Chaparral @ 6.5 oz. / 100 gal. | Mixed Species | 40% |
| 4 = Remedy Ultra @ 2% + Grazon Next HL @ 2% | Mixed Species | 95% |
| 5 = Surmount @ 2% | Mixed Species | 60% |
| 6 = Remedy Ultra @ 1%+ Cimarron Plus @ 1.0 oz. | Mixed Species | 30% |
| 7 = DPX-MAT 28 @ 2.5 oz./100 gal | Mixed Species | 30% |
| 8 = DPX-MAT 28 @ 4.0 oz./100 gal | Mixed Species | 30% |
| 9 = Velpar L @ 2 gallon/mile | Mixed Species | 30% |
| Remedy Ultra @ 25% - 75% Diesel | Mixed Species | 100% |
| 11 = Control | Mixed Species | 0% |

Table III. 2013 Fence Line 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 weed and brush species in fencerows.

Acknowledgements

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