



Remedy RTU[®] vs. Remedy[®] + Diesel as Mesquite Stem Spray

Wittenburg Ranch 2002

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Summary:

Remedy RTU[®] is a "ready to use" formulation of the popular herbicide Remedy[®]. The term "ready to use" means the herbicide requires no mixing and can be poured directly from the container into a backpack sprayer and applied as a stem spray to mesquite and other woody plants. Herbicide trials comparing Remedy RTU[®] to Remedy[®] + diesel (15% + 85%) as a stem spray for control of mesquite were established in Brown, Burnet, Coleman, Irion, Lampasas, McCulloch, Mason, Mills, Runnels, San Saba, Schleicher, Shackelford, Taylor and Tom Green Counties during the summer of 2002.

Preliminary results from these trials will not be available until 2003.

Remedy[®] is one the most effective herbicides available for brush control on Texas rangelands. It's most popular use is as a stem spray. To use this technique the herbicide Remedy[®] is first mixed with diesel or vegetable oil at a specific concentration. Then the spray mix is poured into a backpack sprayer, equipped with a special nozzle (5500-X1 adjustable conejet), and the basal stems of individual woody plants are lightly wetted with the herbicide spray mix from ground line to a height of 12 to 16 inches, all the way around. This technique provides a high level of control when applied to mesquite and many other woody plants. For the stem spray method to provide consistent and acceptable results, the Remedy[®] and diesel or vegetable oil must be mixed at the correct concentrations.

Remedy RTU[®] is a "ready to use" formulation of Remedy[®] that does not require mixing before use. It is premixed at a concentration of approximately 15% Remedy[®] plus 85% vegetable oil. This is the same concentration that is recommended for smooth-barked mesquite. Remedy RTU[®] provides users with the advantage of not having to handle or mix with messy diesel or vegetable oil and the guarantee the spray mix contains the correct concentration of herbicide.

Objective:

The objective of these demonstrations is to:

Document efficacy of Remedy RTU[®] as compared to Remedy[®] plus diesel (15% plus 85%) when used as an individual plant stem spray for control of mesquite on rangeland.

Materials and Methods:

Table 1 shows location and date of treatment for the 14 herbicide trials. Mesquite at each site were treated using the Brush Busters stem spray with the spray mix being either Remedy RTU[®] or 15% Remedy[®] plus 85% diesel. Application was made with a "Solo" backpack sprayer and a 5500-X1 conejet nozzle. The basal stems of each mesquite treated was sprayed to wet, but not to the point of runoff, from ground line to a height of 12 inches, on all sides of the trunk.

Table 1. County, ranch and application dates for the 14 demonstration sites.

County	Ranch	Appl. Date
Brown	Perkins Ranch	August 2, 2002
Burnet	Belmerz Ranch	July 23, 2002
Coleman	Linda Huston Ranch	June 15, 2002
Irion	Rocker B Ranch	July 10, 2002
Lampasas	Wittenburg Ranch	July 24, 2002
McCulloch	Guy Phillips Ranch	June 17, 2002
Mason	Jennings Ranch	August 1, 2002
Mills	Duren Ranch	June 13, 2002
Runnels	Teplecik Ranch	June 20, 2002
San Saba	Miller Ranch	July 8, 2002
Schleicher	Higgins Ranch	July 5, 2002
Shackelford	Leech Ranch	June 4, 2002
Taylor	Bens Richey Boys Ranch	June 21, 2002
Tom Green	Schkade Ranch	July 18, 2002

Results and Discussion:

Based on prices quoted by Palmer Feed in San Angelo (Fall, 2002), Remedy RTU[®] retails for \$38.89/gallon, compared to Remedy[®] at \$82.00/gallon. One gallon of Remedy[®] will make 6.6 gallons of spray mix (15% Remedy[®] plus 85% diesel). Thus the cost per gallon of using Remedy[®] concentrate and mixing yourself (15% Remedy[®] plus 85% diesel) is approximately \$13.30/gallon as compared to the \$38.89/gallon cost of using Remedy RTU[®], but not having to mix.

Preliminary results in terms of efficacy of the two treatment options will not be available until 2003.

Acknowledgments:

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Trade names of commercial products used in this report are 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 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.