

Introduction

Poison hemlock is a biennial herbaceous plant. It is a low-growing rosette in its first year and matures the second year by developing a tall flowering stalk that grows up to 8 feet. It can be so thick that it prevent the growth of other grasses during the spring. It also can be toxic to livestock if they consume the plant.

Control Poison Hemlock(*Conium maculatum*) with winter application of Broadleaf herbicides Horn,R.^{1,},Gunsaulis,J.²,Griffin,B.³

County Extension Agent-Agriculture, University of Arkansas Division of Agriculture Cooperative extension Service, Washington County
 County Extension Agent-Agriculture, University of Arkansas Division of Agriculture Cooperative extension Service, Benton County
 County Extension Agent-Agriculture, University of Arkansas Division of Agriculture Cooperative extension Service, Johnson County

Before Treatment



Results and Discussion

-Duacor was just as effective as the other treatment options
-On the January 15 application all of the treatments except the
Duracor Impregnated fertilizer were 90% or greater in the control of Hemlock
-On the April 3 application all of the treatments except 2,4D were 90% or greater In the control of Hemlock.

<u>Objective</u>

To look at the effectiveness of Duracor compare to other broad-leafed herbicides in the control of Hemlock, when applied during the early winter month in pastures.

Materials and Methods

-The research was conducted on a mixed grass

After Treatment



-There are a lot of treatment option with a wide variety of price range.

- Spraying in January was just as effective as spraying in April

We controlled many other weeds besides Hemlock. Buttercup and Chick Weed saw a 90% control with many of the treatment options.
With the canopy opened up we saw a 70% increase in Bermuda grass

Impacts and Conclusion

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The springtime is a busy time of the year for producers the ability to spray in the winter will help to spread out their workload. The producer looked and the results of the January application and then picked one of the treatments that met his criteria and sprayed the rest of the field. After removal of the Hemlock, Bermuda grass was able to grow and provide pasture for his cattle.

hayfield in western Washington County
The plots were 10' x 50' with a Five Foot Buffer zone between the individual plots

-Treatment dates

- January 15, 2020

-April 3, 2020

-There were 7 different treatment options

-2,4 D

-Metsulfuron

- Grazon P+D

-Grazon next

-Duracor 12 oz./acre

-Duracon 16 oz./acre

-Durcor Impregnated Fertilizer 16 oz. Fertliizer rate 200 lbs. /acre

Hemlock Control

✓ indicates the herbicide achieved 90% or greater control of this weed on the specified application date

Herbicide	Method	Jan. 15th	April 3	
2,4-D	Broadcast spray at 1 qt/acre	V		
Metsulfuron	Broadcast spray at 0.3 ounces/acre	٧	v	
Grazon P+D	Broadcast spray at 1 qt/acre	V		
Grazon Next	Broadcast spray at 1 gt/acre	V	√	

