

## **Eastern Redcedar Control**

Submitted by: David Kehler, County Extension Director/Agriculture Agent

Fall and early winter is a good time to start planning a control program for eastern redcedar in Kansas. Eastern redcedar infests grazinglands throughout the state. It can be especially common on rangeland or pasture that has not been burned for several years. If left uncontrolled, eastern redcedar can completely take over grazinglands, intercepting rainfall and reducing forage production. Eastern redcedar is a non-sprouting plant. It does not re-sprout from belowground plant parts like hedge or honey locust. This simplifies the control measures, in some ways. There are three principal methods of controlling eastern redcedar. In order of preference, the methods are:

### **Prescribed burning**

Fire can kill or damage eastern redcedar if there is enough fuel on the grazingland. A normal fire will control redcedars that are less than three to four feet tall. Redcedar normally grows about 6-12 inches a year, so as long as grazingland managers burn every 3 to 4 years, that should keep most or all of the redcedars under control. Fire may not kill the entire plant, but if at least two-thirds or three-fourths of the needles are scorched, the plants will eventually die. If only half or less of the needles are scorched, the plants will probably survive. The most difficult situations are when there is a thick stand of redcedar, or many of the plants are more than four feet tall. Under these conditions, fire will probably not be acceptably effective. Late summer rest should be used in grazing management to allow accumulation of enough fine fuel to ignite trees when the prescribed burn occurs.

### **Mechanical control**

Redcedars can be killed if they are clipped off near ground level, below the first green branch. Where clipping or mowing hasn't been effective, it's because the plants were not cut low enough. Managers should try to get as close to ground level as possible. Clipping may be the only way of controlling eastern redcedar that is more than four feet tall. Clipping is sometimes easier to do if the plants have first been burned – even if the plants survived the fire. If the fire was reasonably hot, it will almost always sear off many of the lower branches, which makes it easier to get to when operating a clipper, mower, or chainsaw. Redcedar can be controlled by clipping or mowing at any time of the year.

### **Chemical control**

If burning or mechanical control is not an option, then chemical control is another alternative. One chemical for eastern redcedar control is picloram, which is contained in Tordon 22K and Surmount. Tordon 22K can be applied as a liquid directly to the soil right at the base of the plant. The label calls for three to four milliliters (cc's), undiluted, per three feet of plant height. This should be applied in April/May or September/October, just prior to a rain if possible. It can also be applied as a foliar spray, in a one percent solution. Surmount is applied as a foliar spray to trees no more than three feet tall, at the rate of three to six pints per acre, in late spring or early summer. Tordon 22K and Surmount are restricted use pesticides.

Other chemical options for eastern redcedar include Velpar L. It is a liquid formulation of hexazinone, meant to be applied to the soil at the base of the tree at the rate of two to four milliliters per inch of stem diameter at breast height. Pronone Power Pellets are a dry formulation, applied on the soil at the base of the tree. Escort XP, can be applied at the rate of 1-2 oz product/100 gal water as a high-volume treatment for redcedar control.

### **Summary**

Prescribed burning is the method of choice for most instances where eastern redcedar has invaded. Fire is a very effective tool for controlling smaller trees. Larger trees that may survive burning can be mechanically removed. Herbicides are available for treating redcedar, but usually require good spray coverage and will be more effective on smaller trees.