



Common Mullein: A Pesky Invasive That Can Be Managed

By Nancy Klasky, Broomfield County Extension

Published in *Estes Park News*, February 28, 2020, page 20.

Posted at evcg.org with permission.

Here in Estes Park nearly everyone has seen common mullein growing happily, and it has been featured as “Weed of the Week” in the local press. Here is a reasonably easy (or at least simple) no-chemical method of control. When spring finally arrives and the new mullein plants emerge in your yard, you’ll be ready to attack them.

Estes Valley Community Garden Board thanks the author for permission to reprint her article from CoHorts, csuhort.blogspot.com, September 19, 2019.

You may have seen common mullein (*Verbascum thapsus*) scattered along roadways, mountain canyons, rangelands, or in forests. The tall stalky plant has yellow blooms gathered at the top and large sage-colored leaves at the base. It grows profusely after major disturbances like fire, construction, or flooding. It is an introduced species present in all 50 states and

Canada. Originally brought to North America for medicinal purposes, it has been designated a “C List Noxious Weed” by the Colorado Department of Agriculture, which means it is up to private and public entities to manage.

I got to learn a lot about mullein after the High Park Fire west of Fort Collins. This lightning-ignited fire started in June of 2012, burning over 87,000 acres and destroying 259 homes before being contained a month later.

The land I worked on is a mixed forest just over 8,000 feet in elevation. It’s primarily ponderosa pine, with some Douglas fir and aspen. Much of the surrounding land was turned into a moonscape by the High Park Fire, with 100% mortality of trees and other plants. On the managed land, many ponderosa survived, but most other vegetation was destroyed. This created the ideal environment for common mullein to grow, and boy did it grow. Where once there was an abundance of wildflowers, kinnik-kinnik, and common juniper shrubs, there was now a forest of mullein.

Mullein seeds will survive a fire and can remain viable for 100 years! They may have been in the area for decades, unable to germinate until this disturbance. Worse yet, each of these plants can produce 100,000 to 250,000 seeds per spike. I had my work cut out for me, but I was determined to see this beautiful property restored to its natural state.

Common mullein is a biennial, taking two years to grow to its mature height and bloom. The first-year plant is a basal rosette that stays low to the ground and does not flower. If the plant lives to the next year it will bolt up and bloom. Management techniques that work with this lifecycle are important to stopping the spread of this invasive plant and not exacerbating the problem.

As I mentioned mullein likes disturbed ground, so how do you get a plant out of the ground without creating more disturbance? First, you only remove the plant if it is a first year rosette. The roots are shallow and usually easy to pull up. Second, it’s important to try and press down the soil as you pull the plant out. Yanking the plant out will give the seeds you know are there a better chance. Third, if the plant has made it to the second year, you want to cut the bloom off before it starts to dry and drop its seeds. With the help of great groups of volunteers we made many trips to the property, each year seeing less of the plant come back, and each year we worked to remove what did pop up.

With persistence and determination, we saw the native wildflowers, kinnick-kinnick, and juniper shrubs take back what was theirs! The beauty of the restoration is that when the native vegetation grows back, it is enough to keep the mullein from growing. There are other management options to consider, but I found mechanical removal of this plant the best one for this area.

For the Colorado Department of Conservation Fact Sheet, go to www.colorado.gov/pacific/agconservation/common-mullein.

Nancy Klasky is currently the Master Gardener Coordinator at the Broomfield CSU Extension Office. Previously she worked for the Colorado State Forest Service where she coordinated and led hundreds of volunteer events focused on restoration and management of Colorado's forests.