## Deer Browse Survey



## Why Bother?

Deer are majestic animals, but when they get too numerous in an area, they can eat so much that they prevent new plants from growing and replacing those that die. In the long term, this reduces the variety of plants and wildlife your land can support, prevents the forest from renewing itself with young trees, and encourages invasive plants to grow.

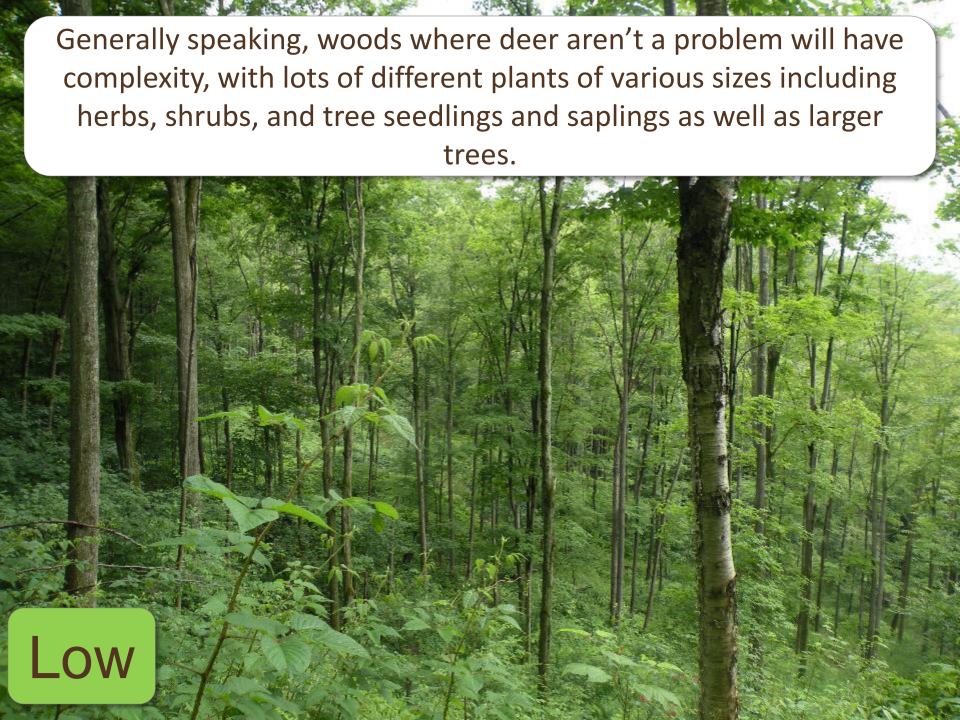
Even if your woods are green and you don't see deer everywhere, you can still have more deer than your woods can support. Deer impacts are subtle at first, and even in severe cases the effects aren't always obvious.

This slideshow will teach you how to spot deer impacts through a browse survey, a quick but reliable way to discover whether deer are harming your woods.

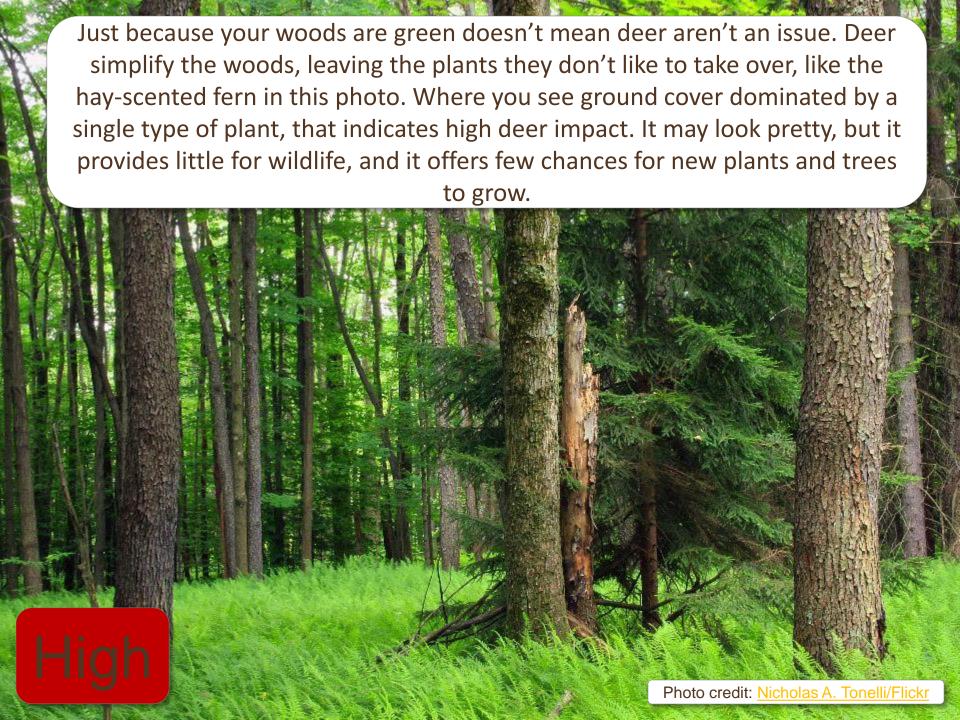
## How to Do a Browse Survey

- 1. Walk your woodlot, not just on your trails but throughout your land. Try to visit every different type of woods you have, such as old fields, young hardwoods, or old conifers.
- 2. While on your walk, you'll look for deer "indicators." These are plants or land conditions that offer clues as to whether deer are impacting your woods. This slideshow will give you ideas of what to look for and whether they indicate low, medium, or heavy browse.
- 3. If your browse survey reveals that deer are a challenge your land faces, consider some of the other deer-related Activities here on MyWoodlot to bring your local deer population closer to what your woods can support.









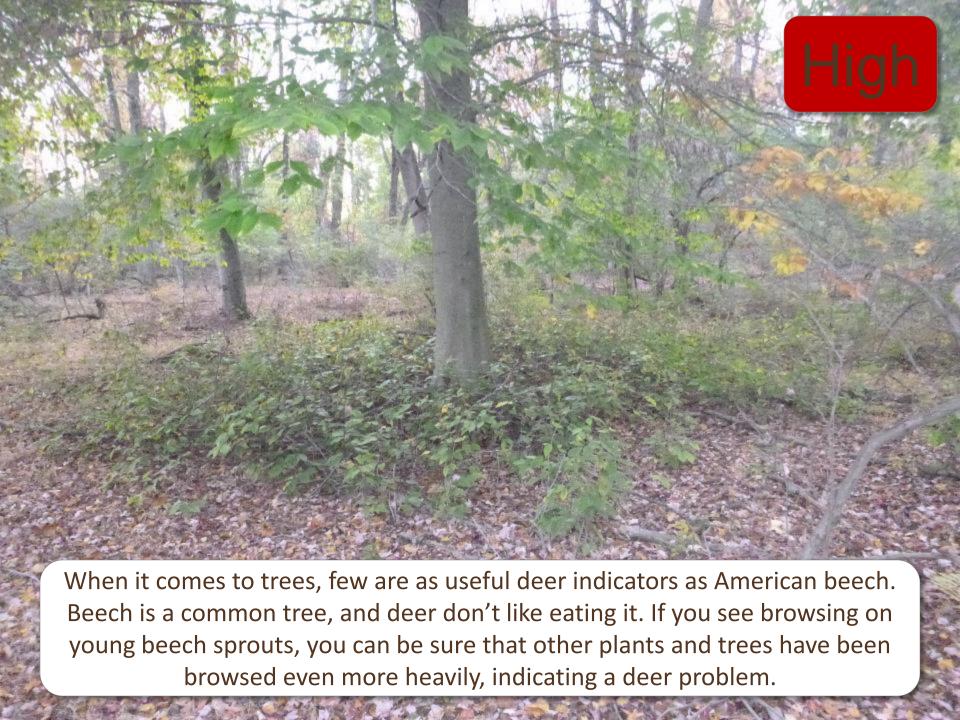
Beyond these general conditions, you can also look for specific indicators that suggest whether deer impact on your woods is low, medium, or heavy.





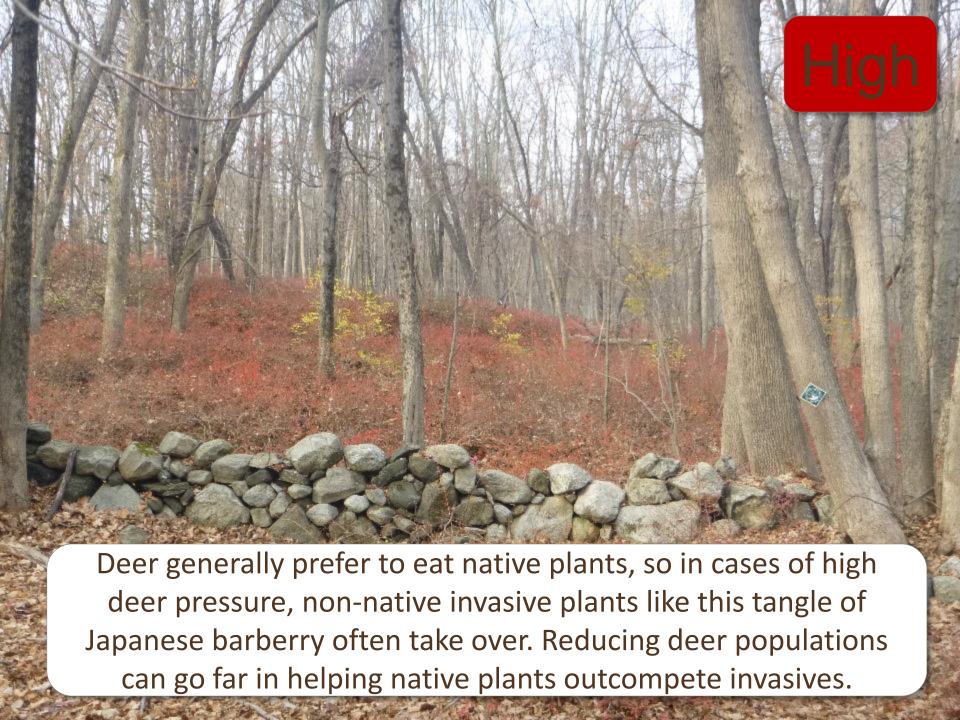
Deer have favorite foods just like we do, and they'll eat those favorites before they eat other plants. Spring wildflowers like white trillium (left) and wild lily-of-the-valley (right) are often the first plants to disappear from the woods when deer get too numerous. Visit your woods in the spring. Do you see wildflowers? Are they blooming? If not, it suggests at least a low deer impact.







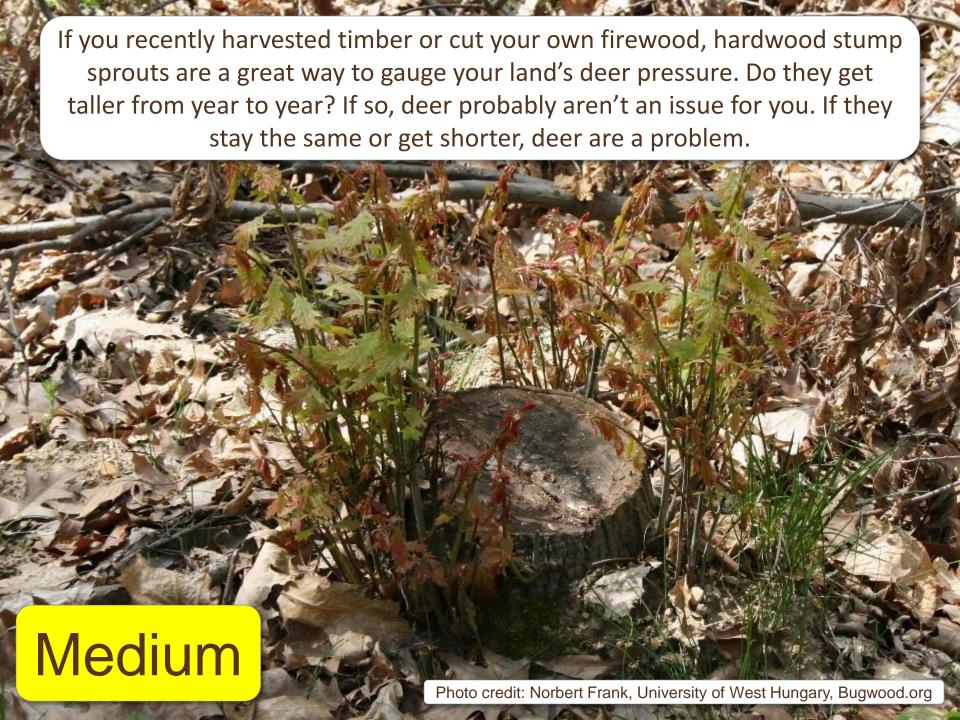
Hay-scented fern isn't a desirable deer food, so it often blankets the forest floor in cases where there are too many deer. In this example of high deer pressure, you can see the abundant growth inside a deer fence (left), while hay-scented fern dominates the rest of the woods (right).

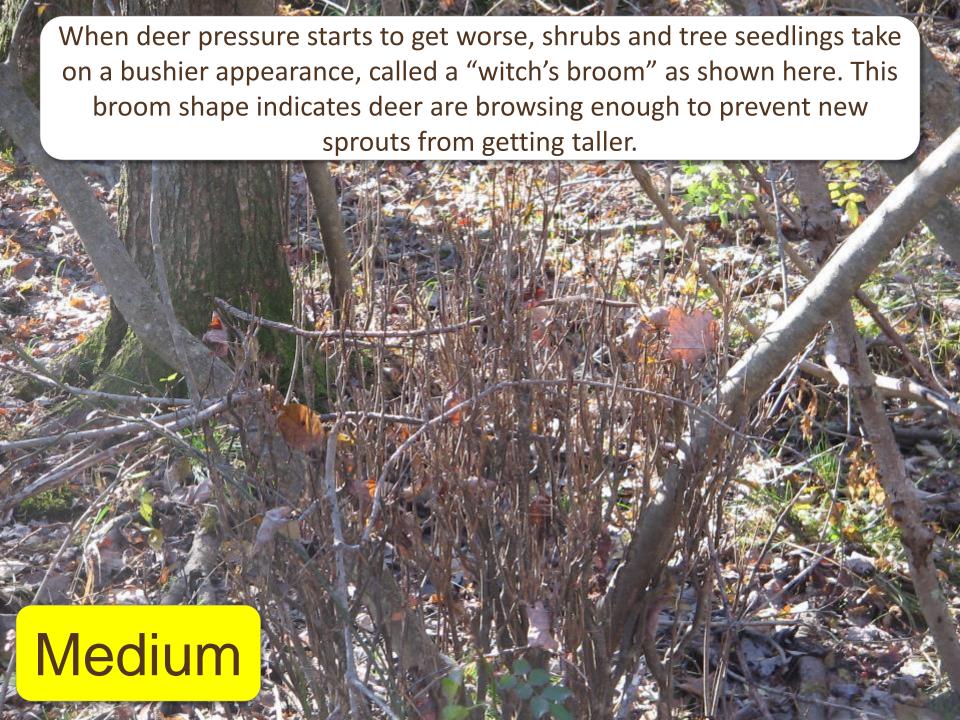


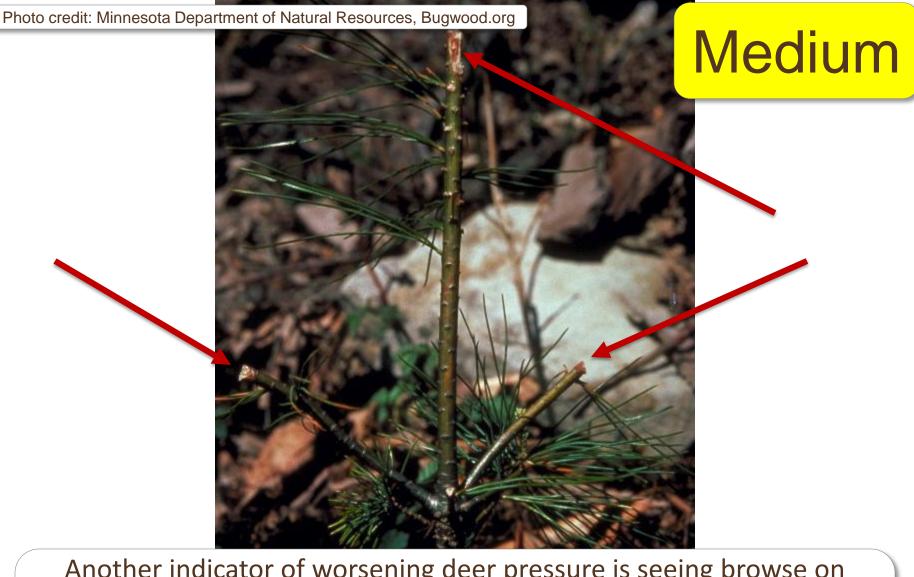


If you aren't confident of your plant ID skills, there are other deer indicators you can look for. These indicators don't require you to be able to tell species apart. At most, you'll need to tell between hardwoods (trees with broad leaves) and conifers (trees with needles).









Another indicator of worsening deer pressure is seeing browse on conifer seedlings like this pine. Deer prefer hardwoods over conifers, so if they're browsing conifers, it usually means other, better food sources are already gone.

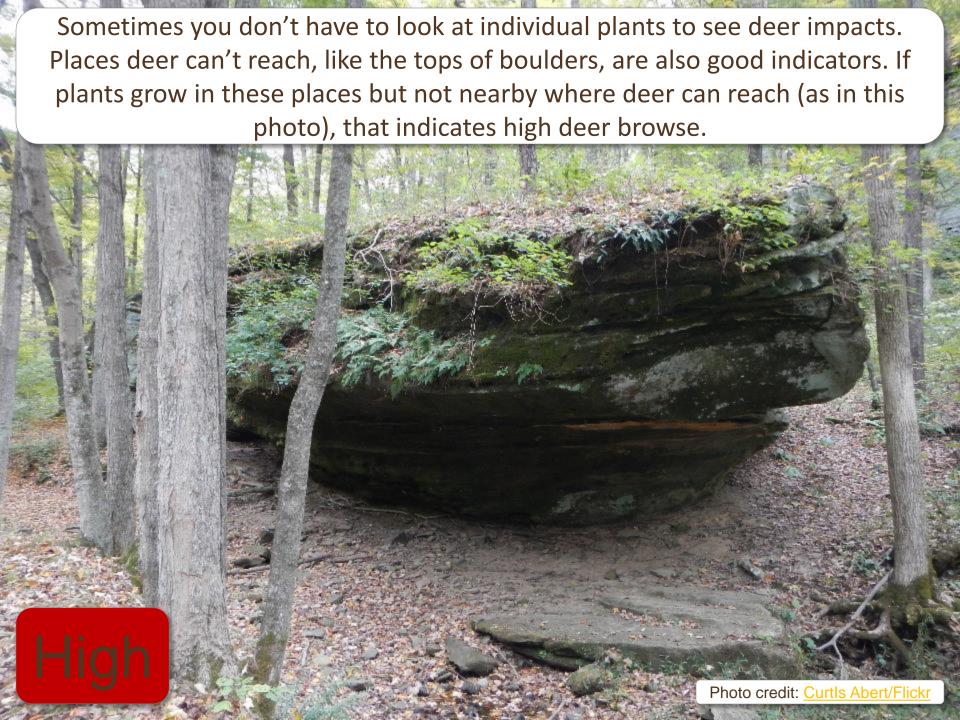
Young conifers are also useful browse indicators because they have branches close to the ground. If your young conifers have branches close to the ground, that indicates low deer pressure. But if they look like lollipops and lack branches below 6 feet, deer are a problem for you.



to the ground. No deer issue here. Photo credit: Joseph

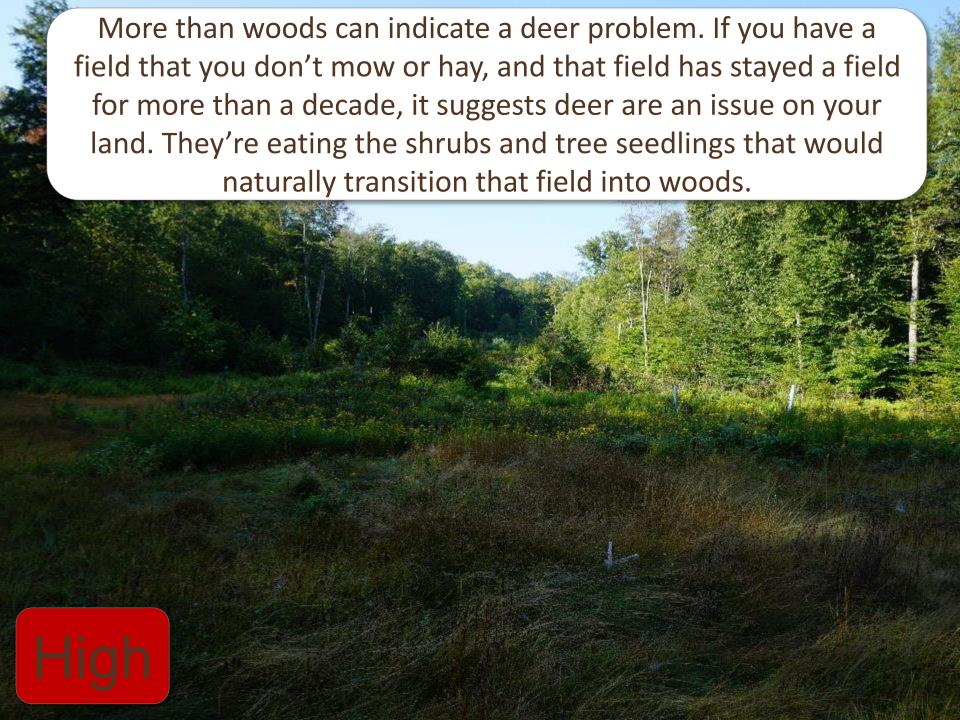
O'Brien, USDA Forest Service, Bugwood.org

These "lollipop" red cedars indicate deer are a problem on this property.





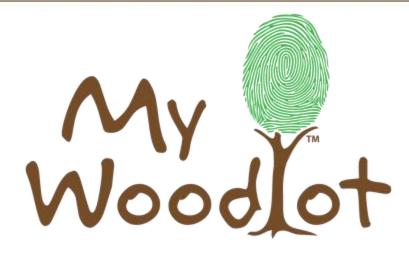
In cases of extreme deer impact, there will be a clear horizontal "browse line" in the woods at the highest point deer can reach. If you see this line in your woods, you have a severe deer problem.



## What Next?

- If after your browse survey you conclude your land isn't impacted by deer, congratulations! That's a good sign that your woods will be able to regrow after disturbances like storms, insect infestations, and timber harvests.
- 2. If you have <u>low</u> or <u>medium</u> deer browse, consider doing an annual pellet count survey for a couple years to figure out if your local deer herd is getting bigger or smaller. If it's growing, you'll likely have problems in the future.
- 3. If you have <u>high</u> deer browse, your woods are being harmed. Plant and wildlife numbers are lower and less diverse than they would be with fewer deer, and your woods will have trouble recovering after a disturbance. Consider trying some of the other Activities listed under this MyWoodlot Goal that suggest ways to reduce deer pressure on your land.





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