



tallow tree can become reproductive in 3 years. It can produce up to 100,000 seeds per year and seeds have shown to have a high germination vigor. A far and wide spread of the seeds can occur by both water and birds. It also spreads by producing suckers from shallow roots.

Different treatment methods have been recommended for Chinese tallowtree control. Grazing is not an option because cattle do not graze Chinese tallowtree and goats will graze it, but not prefer it. Chinese tallowtree also has a herbivory tolerance that likely contributes to its invasive potential. Mechanical methods, such as bulldozer or forestry mulcher will remove large mature trees, but roots must be destroyed to prevent resprouting. Mowing saplings will allow the plant go from a single stemmed plant to multiple stems.

Burning can kill small trees, but effective use depends on having sufficient fuel for an intense fire. Several herbicides provide excellent control. Several methods can be used to apply herbicides for control of Chinese tallowtree that include basal, cut-stump, foliar, frill, or soil applied. **Table 1** provides more information about the different types of application and recommended herbicides and rates. It is important to read the herbicide labels because some herbicides will damage other woody plants or forages and there might be grazing and planting restrictions of forage crops. Contact your local county Extension office for more information.

**Table 1.** Method of application, herbicide, formulation and rate for chemical control of Chinese tallowtree in pasture systems.

| Application      | Herbicide              | Formulation  | Rate                           |
|------------------|------------------------|--------------|--------------------------------|
| <b>Basal</b>     | Triclopyr              | 4 lb ae/gal* | 20% solution + bark penetrator |
| <b>Cut-stump</b> | Glyphosate             | 3 lb ae/gal  | 1% solution                    |
|                  | Imazapyr               | 2 lb ae/gal  | 64 oz/ac + 32 oz water         |
|                  | Triclopyr              | 4 lb ae/gal  | undiluted                      |
| <b>Foliar</b>    | Glyphosate             | 3 lb ae*/gal | 1% solution                    |
|                  | Imazapyr               | 2 lb ae/gal  | 32 to 96 oz/ac or 2% solution  |
|                  | Imazapyr + Metsulfuron | 72.7%        | 25 oz/ac                       |
|                  | Picloram + 2,4-D       | 49.8%        | 128 oz/ac                      |
|                  | Picloram + fluroxypyr  | 23.88%       | 48 to 96 oz/ac                 |
| <b>Frill</b>     | Imazapyr               | 2 lb ae/gal  | 64 oz/ac + 32 oz water         |
|                  | Triclopyr              | 4 lb ae/gal  | 20% solution                   |
| <b>Soil</b>      | Hexazinone             | 2 lb ai/gal  | 256 to 512 oz/ac               |
|                  | Imazapyr               | 2 lb ae/gal  | 32 to 96 oz/ac or 2% solution  |

\*lb ae/gal = pounds of acid equivalent per gallon; lb ai/gal = pounds active ingredient per gallon. Source: Adapted from Loewenstein and Enloe, 2015 and Maddox et al. 2017.

Chinese tallowtree will tolerate a wide range of environmental conditions and an early identification and eradication of this invasive tree species is very important approach in pasture systems. Large infestations can be cumbersome since aerial application or large ground operations will be required and in some cases extensive pasture renovations. Chemical control is often the most effective way to control Chinese tallow. Remember that results of an herbicide application may vary based on the application method.

### Upcoming Events

December 8-9, 2017—Grass Fed Beed in the Southeast, Purvis, MS

For upcoming forage related events visit: <http://forages.pss.msstate.edu/events.html>

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