



Bigger Pines,
Bigger Profits.

A close-up photograph of a tree trunk, likely a pine, showing significant bark damage and peeling. The bark is dark and textured, with large areas of it having been removed, revealing the lighter-colored wood underneath. This visual represents the "pine release" mentioned in the text.

PINE RELEASE

Professional
Vegetation
Management

 **BASF**

The Chemical Company

ARSENAL[®]
herbicide



Professional
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Management

BASF

The Chemical Company

Releasing young pines with Arsenal® herbicide Applicators Concentrate (Arsenal AC) after planting frees them from hardwood competition that can rob them of sunlight, nutrients, moisture and root space.

And freedom from hardwood competition means bigger, healthier pines – and bigger, healthier profits – for you.

In one study, hardwood vegetation was removed from a 7-year-old natural loblolly stand. Ten years later, total merchantable volume in treated plots was 30% greater than in untreated plots.*

The Best. Bar None.

Arsenal AC gives you outstanding, long-term control of even the most troublesome hardwoods. The result? Maximum pine growth and return on investment. When you compare a vegetation management program using **Arsenal AC** with other herbicide programs, the results you get may look similar a year after treatment. But in the long run, **Arsenal AC** gives you far better long-term control.



Stand receiving no release treatment.



Stand that received release treatment.

When a stand does not receive a release treatment, pine growth is dramatically reduced. Conversely, a tract receiving a release treatment frees the pines from hardwoods that steal sunlight and nutrients.

The Beauty Part: Better Habitat, Better Aesthetics.

Arsenal® herbicide Applicators Concentrate (Arsenal AC) helps enhance wildlife habitat, too. Its active ingredient works on an enzyme found only in plants – not birds, animals, fish, insects, or humans. And, because **Arsenal AC** doesn't target the legumes and brambles wildlife use for food, it helps increase plant diversity. Cleared of unsightly and fire-hazardous underbrush, your land will be more beautiful and more attractive to hunters, recreationists and wildlife alike.

The Full Treatment: Forestland Management with Arsenal AC.

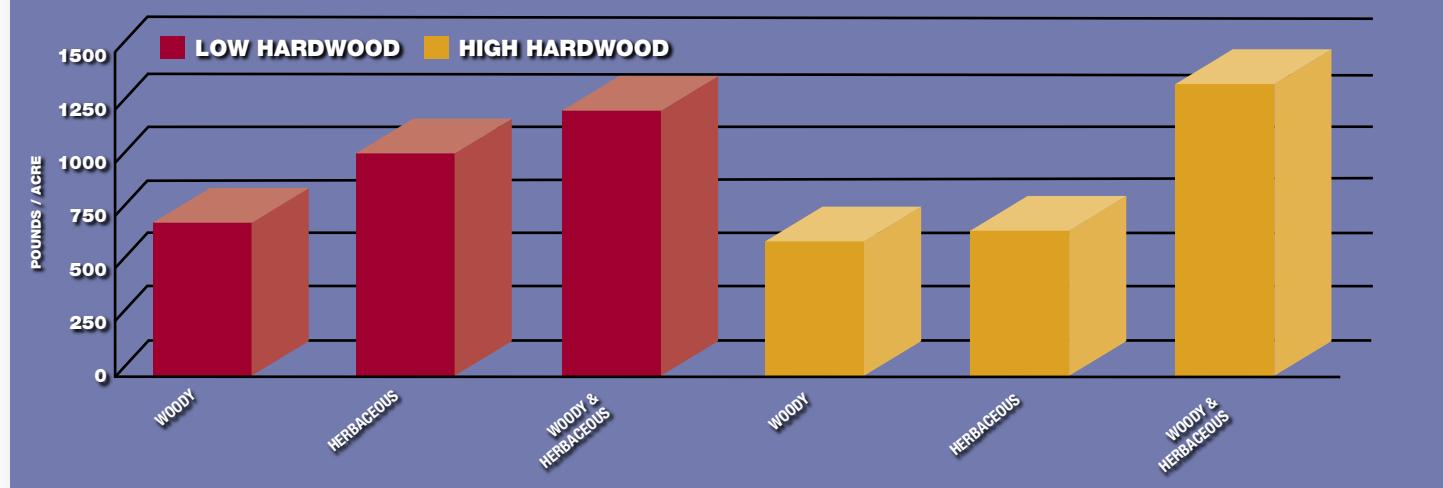
You can count on **Arsenal AC** to control competing vegetation throughout each and every phase of the pine forest life cycle. No matter which phase your forest is in, **Arsenal AC** can help support your management efforts.

- **Herbaceous Weed Control** in the critical first and second seasons.
- **Pine Release** to boost merchantable volumes by controlling hardwood brush in young pine stands. (Please refer to label directions.)
- **Mid-Rotation Release** to clear hardwood brush halfway through pine stand rotation, with an estimated average annual real rate of return topping 11% per year.

Arsenal AC at Pine Release: Benefits You Can Bank On.

- **Boosts merchantable pine volume** by as much as 30% or more.
- **Allows earlier thinning.** And more time for thinned stands to develop.
- **Lowers fire risk.** Thanks to reduced fuel loads.
- **Controls the toughest competitors.** Hardwoods, brush, waxy species, broadleaves and grasses.
- **Pine tolerance.** *Arsenal AC selectively targets competing vegetation and provides outstanding pine tolerance when used according to label directions.*
- **Improves aesthetics.** A plus for recreation.
- **Helps enhance wildlife habitat.** *Arsenal AC increases plant diversity and doesn't target the legumes wildlife use for food.*

BENEFITS OF COMBINED WOODY & HERBACEOUS CONTROL, AGE 8 RESULTS



*Clason, TR, 1984, Hardwood Eradication Improves Productivity of Thinned Loblolly Pine Stands, *Southern Journal of Applied Forestry* 8 (4): 194-196.



Quality Vegetation Management™
Making The World a Better Place.

QVM is a set of principles that creates and sustains healthy habitats through professional, ethical and responsible practices.

Learn more at:
www.vmanswers.com/QVM



Arsenal AC: The One To Grow On.

For more information about any BASF vegetation management product, contact your nearest BASF ProVM specialist at **1-800-545-9525**, or visit www.vmanswers.com.

Always read and follow label directions.

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