



Protect Your Little Ones. And Eliminate the Competition.

HERBACEOUS WEED CONTROL

Professional
Vegetation
Management

 **BASF**

The Chemical Company

ARSENAL[®]
herbicide

Your pine seedlings – and profits – have many enemies. Herbaceous weeds rob young pines of resources needed for healthy growth: sunlight, moisture, nutrients and root space.

Forestry research and real-world experience agree: herbaceous weed control after spring planting is your best defense – paying off in “phenomenal” volume increases and a whole lot more.¹ And nothing boosts seedling survival, accelerates growth and pumps up the volume like **Arsenal® herbicide Applicators Concentrate (Arsenal AC)**.

Arsenal AC effectively controls a broad spectrum of herbaceous weeds that compete with newly planted seedlings during the critical first and second growing seasons, without targeting young pines or the legumes wildlife use for food. All of which means a stronger, healthier head start for your pines – with bottom-line benefits you can bank on for years to come.

In fact, studies show that a single **Arsenal AC** treatment can more than double merchantable tree volume while shortening time-to-maturity by years.¹ The results? More productive, more profitable stands. Shorter rotations. Earlier commercial thinning – and a higher potential return on investment.

*Give your seedlings a stronger head start and a fighting chance for survival with **Arsenal AC**.*



*On the left, a young pine in an unmanaged site struggles to survive among herbaceous weeds. An **Arsenal AC** application was made to the site on the right after planting to control herbaceous weeds.*

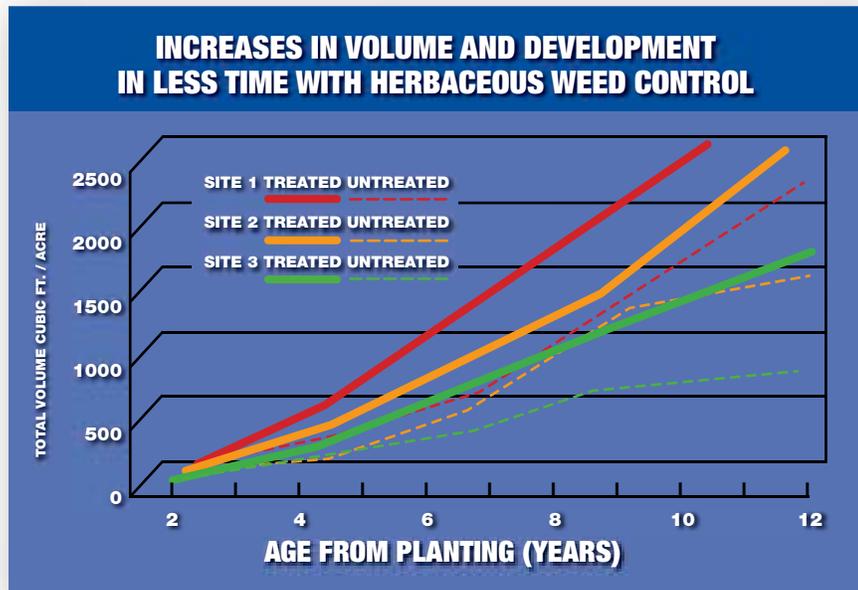
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The Clear Path to Growing Success.

Year in, year out, nothing delivers growth increases like **Arsenal® herbicide Applicators Concentrate (Arsenal AC)**. **Arsenal AC** can be applied anytime from February through July for optimum preemergent control and good burndown. And, **Arsenal AC** provides continued long-term control to keep competitors at bay, so your seedlings have a fighting chance for survival and healthy growth.



The Full Treatment: Life-Cycle Management with Arsenal AC.

Count on **Arsenal AC** to control competing vegetation throughout the life cycle of your pine stands.

- **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 potential rate of return topping 11% per year.

1. Glover, GR, Creighton JL, Gjerstad DH, Herbaceous weed control increases loblolly pine growth, *J. Forestry*, 1989; 87(2): 47-50.

2. Creighton JL, Zutter BR, Glover GR, Gjerstad DH, Planted pine growth and survival response to herbaceous vegetation control, treatment duration, and herbicide application technique, *South. J. Appl. For.*, 1987; 11(4): 223-227.

3. Dougherty PM, Survival and Growth Responses of Loblolly Pine to a Range of Competition Control, Georgia Forestry Commission: 1990, Georgia Forest Research Paper 81.

4. Lauer DK, Glover GR, Gjerstad DH, 1993, Comparison of duration and method of herbaceous weed control on loblolly pine response through mid-rotation. *Canadian Journal of Forestry Research* 23:2116-2125.

Arsenal AC For Herbaceous Weed Control: Benefits You Can Bank On.

- **Better seedling survival rates.**
Uniform, fully stocked stands for maximum volume production.^{2,3}
- **More than double the early pine volume growth after a single treatment.⁴**
Gives pines a strong head start over future competition.
- **Greater merchantable volumes.**
In one study, increases ranged from 33% to a whopping 131%.¹
- **Quicker return.**
Faster stand growth means earlier commercial thinning.¹
- **Bigger volumes and faster stand development.**
Research has found stand development accelerated by an average of three years.¹ Instead of waiting to harvest at age 25, the same volumes could be harvested at age 22. Plus, faster development means shorter, more compressed rotations.
- **Lower fire risk.**
Thanks to reduced fuel loads.
- **Broad-spectrum control.**
Grass, sedges, forbs, vines and broadleaves.
- **Pine tolerance.**
Arsenal AC selectively targets competing vegetation and provides outstanding pine tolerance when used according to label directions.
- **Enhances wildlife habitat.**
Arsenal AC increases plant diversity and doesn't target wildlife-preferred forage.



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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