

CHOPPER[®] GEN2[™] herbicide

Professional
Vegetation
Management



The Chemical Company

**Chopper[®] GEN2[™] Herbicide
With Transport Technology[™]**
Superior Site Prep And Mid-Rotation
Release At Lower Rates

Chopper® GEN2™ Herbicide

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The Proven Performance Of **Chopper** At Lower Rates.

For years, landowners, consultants and applicators have expected — and gotten — industry-leading performance from **Chopper® herbicide**. Now, you can upgrade to something even better: **Chopper GEN2**. Utilizing Transport Technology, a BASF exclusive, **Chopper GEN2** allows you to use less active ingredient per acre without decreasing control (Figure 1). For example, a 2004-2005 study comparing **Chopper** with **Chopper GEN2** shows the improved performance of the new formulation, even at lower rates (Figure 2). This means **Chopper GEN2** delivers the same (or better) superior, long-term control of unwanted grasses, weeds, vines and hardwoods you expect, but at a lower cost per acre. In short, the industry standard has been raised: nothing else on the market offers the guaranteed performance of **Chopper GEN2**.

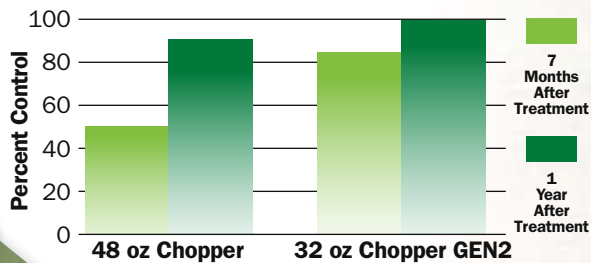
FIG. 1:



Effective hardwood brush control.

Same control at lower rate.

FIG. 2: RED MAPLE SPRAYED SEPTEMBER 2004
TREATMENTS WITH 1% MSO



Results tabulated August 2005.



Perfect For Site Prep

Surveys show herbicides deliver site preparation that's 60 percent the cost of intensive mechanical methods. And the powerful chemistry of **Chopper GEN2** with Transport Technology improves upon those herbicides surveyed, accelerating protein blockage in targeted species, leading to faster, more consistent control up-front and more effective control long-term.¹

Right For Mid-Rotation Release

Release treatments are especially important on land that didn't receive proper site preparation, an early release treatment or on thinned sites with re-invading hardwoods. An understory mid-rotation release treatment with **Chopper GEN2** helps eliminate hardwood brush and allows established pines access to more nutrients, root space and sunlight, which in turn improves long-term growth rates. Based on one economic projection, release on a 10-year-old pine stand provided a real annual rate of return of 11.2 percent in 15 years.² In addition, studies also show improved release of wildlife-preferred forage with **Chopper GEN2** (Figure 3).

Patented Technology, Proven Results

Recent studies show how **Chopper GEN2** delivers great control with less methylated seed oil (MSO) when targeting deciduous hardwood. **Chopper GEN2** needs only 2.5 percent MSO for pre-June 15 site prep applications on sites targeting deciduous hardwood. This is equivalent to one quart MSO in 10 gallons per acre of total spray solution. This low MSO rate provides control equal to **Chopper** plus 12.5 percent MSO, equivalent to 5 quarts MSO in 10 gallons per acre total spray solution (Figure 4).

¹ M. Smidt, M.R. Dubois, B. Da Silveira Folegatti. 2005. "Costs and Cost Trends for Forestry Practices in the South." *Forest Landowner* Volume 64 Number 2.

² Caulfield, J.P., B.D. Shiver, L.V. Pienaar and H.E. Quicke. 1999. "Estimating financial returns from mid-rotation release in coastal plain loblolly pine plantations."

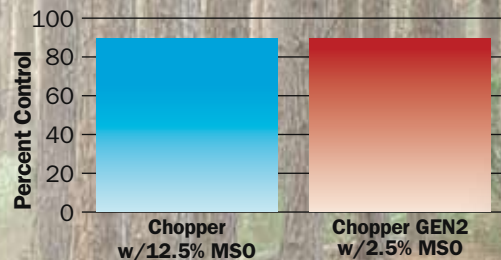
FIG. 3:



Effective control of competing hardwoods in understory.

Same control, PLUS release of wildlife-preferred forage at lower rate.

FIG. 4: DECIDUOUS HARDWOOD CONTROL, SPRAYED EARLY JUNE 2005



A Better Solution For Habitat Enhancement

A clear understory improves wildlife habitat and biodiversity. When sunlight is able to reach the forest floor, wildlife-preferred food sources like blackberry, forbs and legumes flourish. **Chopper GEN2**, which binds with an enzyme found only in plants (not in people, mammals, birds, fish or insects), helps promote the growth and re-colonization of the desirable, native plants that provide forage and enhance wildlife habitat.



Chopper[®] GEN2[™] Herbicide

Superior Site Prep And Mid-Rotation Release At Lower Rates

Broad-Spectrum Control

Ideal for selective treatments and readily absorbed by target species, **Chopper GEN2** controls a broad spectrum of undesirable annual and perennial grasses, broadleaf weeds, vine species and woody brush. Here are some of the key species controlled by **Chopper GEN2**:

WOODY BRUSH

- Ailanthus
- Ash
- Black Gum
- Black Oak
- Box Elder
- Cherry
- Chinquapin
- Cottonwood
- Dogwood
- Hickory
- Maple
- Poplar
- Privet
- Red Maple
- Red Oak
- Sweetgum
- Willow
- Yellow Poplar

GRASSES

- Bahiagrass
- Bermudagrass
- Cogongrass
- Fescue
- Johnsongrass

BROADLEAF WEEDS

- Bull Thistle
- Giant Ragweed
- Kochia
- Russian Knapweed
- Russian Thistle

Application Versatility

Chopper GEN2 is more rainfast than similar herbicides in the industry. In addition, **Chopper GEN2** can be applied from full leaf-out in spring – when applicators and equipment are most readily available – all the way through leaf-drop in the fall. Early application results in improved planting conditions.*

Application rates for understory release treatments with **Chopper GEN2** vary depending on location, pine species and the undesirable species being controlled. Please consult your BASF ProVM sales specialist or a **Quality Vegetation Management[™] (QVM)** Certified Advisor for information specific to your vegetation management needs. To find a **QVM** Certified Advisor in your area, please visit the **QVM** Advisor Locator at www.vanswers.com.

*Before June 15 use 2.5% MSO – see guarantee.

To learn more about potential applications and benefits of **Chopper GEN2** with **Transport Technology**, call your nearest BASF ProVM sales specialist at **1-800-545-9525**, or visit www.choppergen2.com.

CHOPPER[®]
GEN2[™]
herbicide

Always read and follow label directions.

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