

# Pennfine Perennial Ryegrass.

If it's got a weakness, nobody's found it.  
But we have heard about some new strengths.

The Pennfine story gets better as it goes along.

Four years ago, the agronomists at Pennsylvania State University finished their work on Pennfine. And the professional turf community put this remarkable fine-leaved perennial ryegrass to work on golf courses, athletic fields, sod farms, parks, cemeteries and public grounds across the country.



Clean-cutting  
Pennfine

Other fine-leaved  
ryegrasses

## The ultimate test.

Now, after thousands of grounds maintenance pros have used Pennfine, nobody's reported a real weakness. All the characteristics the Penn State agronomists

selected for—unsurpassed mowability, excellent disease resistance, exceptional decumbency, persistence under diverse management conditions, fine texture and compatibility with Kentucky Bluegrass—have proven out in the real world. That's the ultimate test.



Dr. Joe Duich of Penn State inspecting a new application for Pennfine: Independence National Historical Park, Philadelphia.

In fact, Pennfine has performed even better in some areas than anticipated. It's proven to be more tolerant to both shade and heat. It's shown excellent rust resistance on the West Coast. And, although Pennfine showed good to excellent disease tolerance in university trials, its disease tolerance appears to be even stronger in actual use.



Pennfine production fields in the Pacific Northwest where a major effort is underway to meet growing demand for seed.

## Increased production.

From the very beginning, there's been only one problem with Pennfine: not enough seed to meet demand. And that problem is just about solved with substantially increased production. We can't make you a flat promise. But, if you order fairly soon, you should be able to get Pennfine seed in the quantity you want.

On the other hand, maybe you're still not convinced. In that case, we'll send you a test kit with enough Pennfine seed for you to develop a 100 sq. ft. test plot. And you can try to find a weakness on your own turf.

Either way, whether you seed Pennfine this year or just test it, we think you'll be impressed by the results.

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I'm still not convinced. Send me a Pennfine Test Kit.

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**Please Note:** The test kit offer is restricted to turf professionals, people whose livelihood depends on the establishment and maintenance of quality turf.

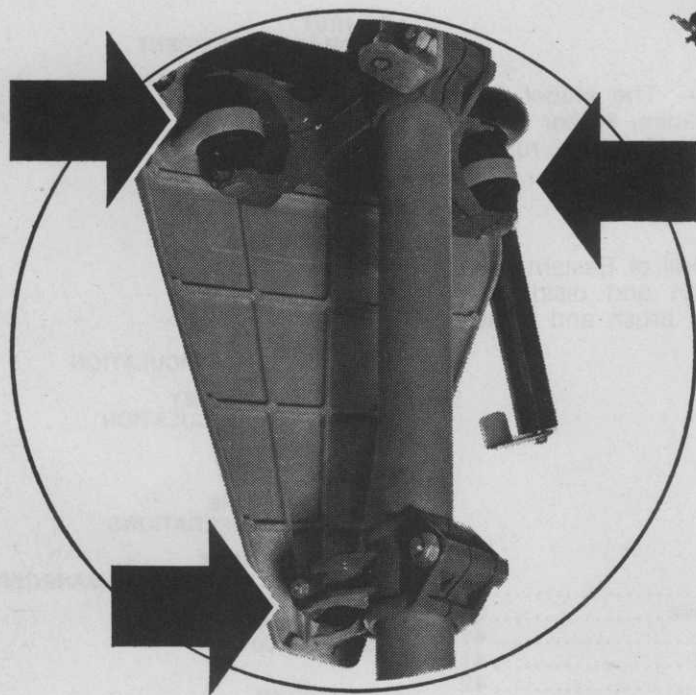
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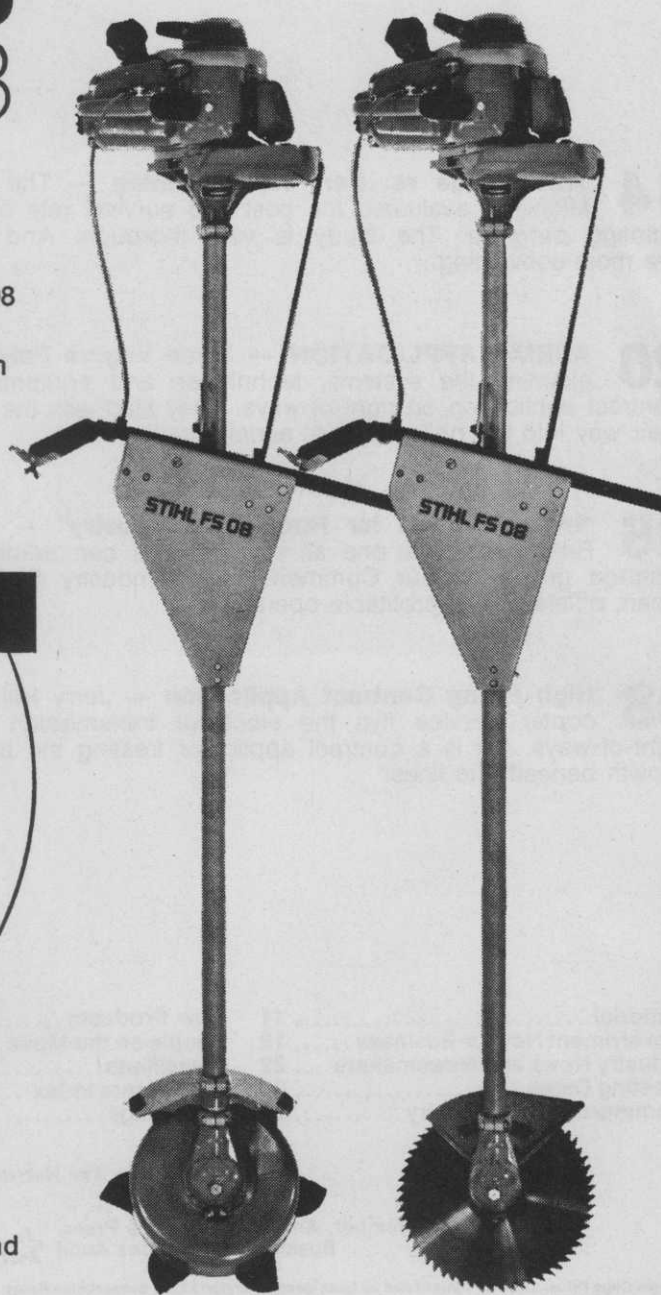
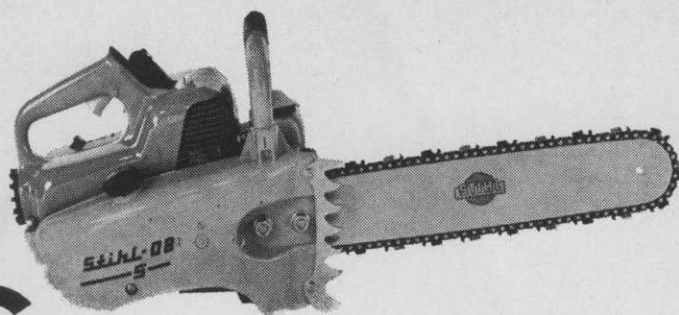
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November 1975, Vol. 14, No. 11

**14 Tree Spade vs. Bare Root Planting** — The City of Lansing, Michigan evaluated the cost and survival rate of their street tree planting program. The study is very thorough. And the conclusions are most convincing.

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**20 AERIAL APPLICATION** — Three Virginia Polytechnic scientists examine the systems, techniques and equipment of helicopter contract application on right-of-ways. They start with the basics and work their way into the philosophy of aerial spraying.

**26 "Instant Lawns for Home and Industry"** — The Huber Sod Ranch motto is one all sod growers can admire. Huber is the featured grower in our Commercial Sod Industry Section. He runs a clean, efficient, and profitable operation.

**38 High Flying Contract Application** — Jerry Hill of Eastern Helicopter Service flies the electrical transmission and distribution right-of-ways. He is a contract applicator treating the brush and woody growth beneath the lines.

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**THE COVER** — Jerry Hill flies his ship down a distribution line applying chemical to the vegetation. His ship sports a Microfoil boom and .060 nozzle arrangement manufactured by Amchem.

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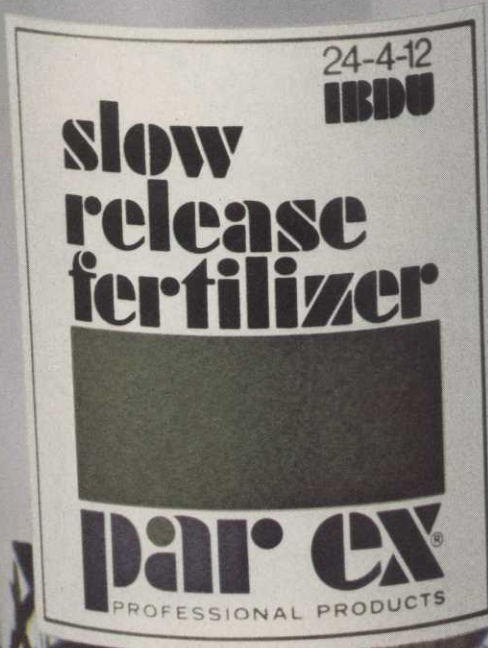
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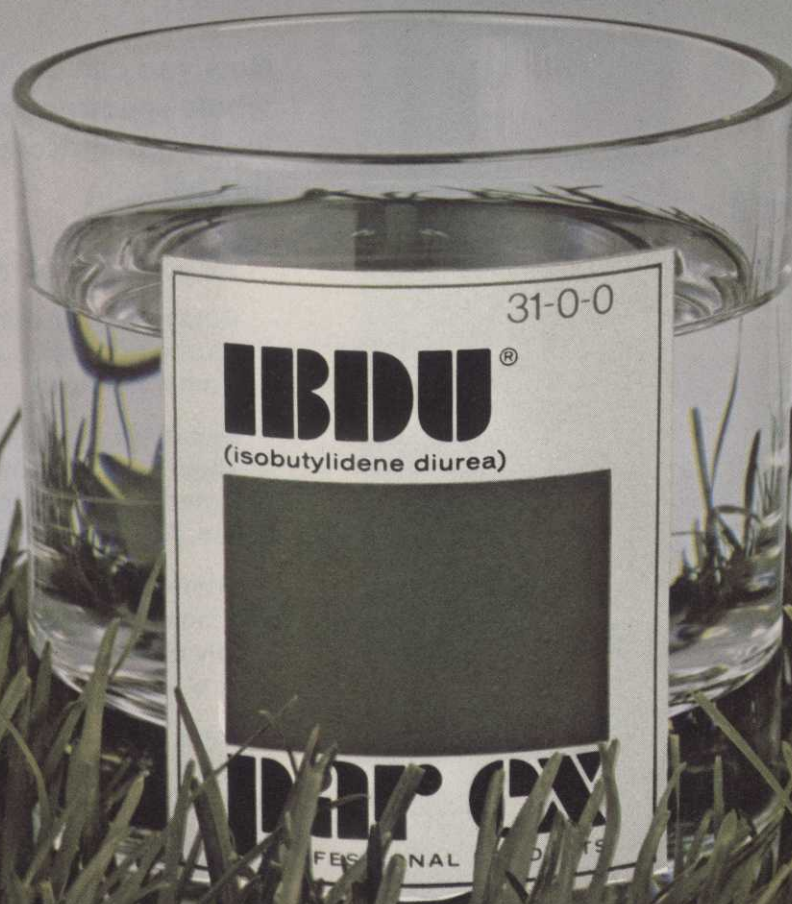
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But we do say that TRIMEC comes closer to the turfman's dream of weedkill perfection than any other herbicide.

Before we examine the reasons why — all four of them — we want to discuss the exclusive, patented TRIMEC formulation and synergistic action. For therein lies the key.

Trimec's active ingredients — 2,4-D, MCPP and dicamba — are no secret. Each is a chemical widely used and thoroughly proved in broadleaf control.

Each chemical has its unique qualities and different effects in weedkill. But each also is limited so that none of the three chemicals, alone, can deliver the all-round versatility essential to a total, professional turf program. The reach of each chemical is too limited.

Through research and testing, these three chemicals finally were combined in a way that enhances the best of each for broadleaf control. Significantly, it was also discovered that the 3-way formulation assumed a fourth dimension of power — a synergistic strength that has far more than mere additive effect. Mathematically, 1+1+1 added up to 4, 5, or more in weedkill power.

Such multiplication of effect from combined ingredients is called synergism.

TRIMEC herbicides are synergistic. Thus, surprisingly light applications to turf pack a deadly wallop to broadleaf enemies.

Now, these three proven chemicals have been carefully reacted and balanced together, inseparably, to form a new and far superior herbicide . . . TRIMEC.



# is Four ways better: safely controls all weeds, works even in cool weather.

## The name is TRIMEC.

Read on to learn why TRIMEC is the best broadleaf herbicide you can buy:

### 1) TRIMEC is positively effective.

No other herbicide is so totally reliable in destroying the wide spectrum of broadleaf weeds.

The fact is, we have yet to discover a broadleaf weed that can resist TRIMEC'S lethal punch.

Normally, this escape-proof herbicide completely kills actively growing weeds with one application, correctly timed and applied. The result is positive and definite — turf thrives in weed-free abundance.

### 2) TRIMEC is safe

It's the safest herbicide available for grasses, because of the small amounts of both 2,4-D and dicamba. And because the recommended dosages are so light, there is no significant root uptake. Consequently, TRIMEC does not harm flowers, trees and shrubs.

Thus while TRIMEC is deadly to weeds, it is gentle and harmless with grasses, flowers, trees and shrubs, when properly applied.

More, TRIMEC is friendly to the environment. The small dosages required put less chemical into the soil. And, because all components are biodegradable, they are soon rendered harmless by natural soil organisms.

### 3) TRIMEC herbicides cost less

Although the cost-per-gallon may be as much or more than other herbicides, the actual cost-per-acre of weed control is substantially less. Smaller amounts of chemicals just naturally reduce the cost. Additional economy results from its effectiveness, which almost always eliminates the need for repeated applications, which saves labor and equipment costs.

TRIMEC's effective cost is the lowest of all broadleaf herbicides.

### 4) Cool-weather wallop

TRIMEC herbicides work well in late autumn or early winter, when temperatures are in the fifties. This gives you a tremendous advantage.

At last, you can destroy promptly those late-starting dandelions, plantains, chickweeds, etc. that sprout **after** your summer spraying.

Going into winter with a clean turf has a great **spring** benefit — you needn't spray so early for dandelions that you miss most of the later-starting weed crop.

No longer are weeds in control. Now you're in command, planning your work and working your plan to nip weeds at the correct time, in any season.

#### Special for sensitive grasses

TRIMEC is available in a special Bentgrass formula made especially for Bentgrass, and other grasses sensitive to higher rates of 2,4-D.

"I've had better results on our fair-ways with Trimec than with any other chemical I've ever used."

**Bill Norrie**  
Superintendent  
Scenic Hills Country Club  
Pensacola, Florida

"Trimec is the most effective and economical broadleaf herbicide a sod grower can use."

**Lyle Reiss**  
Owner  
Marshall County Sod Farms  
Marshalltown, Iowa

"We want immaculate, weed-free turf . . . Trimec delivers it."

**Carl Ripper**  
Resthaven Cemetery  
West Des Moines, Iowa

## Why fall is the best time to "TRIMEC" dandelions

TRIMEC's cool-weather wallop lets you destroy them with one treatment in late autumn or early winter, when temperatures have cooled to the 50s range.

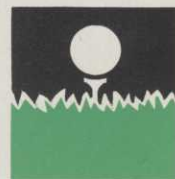
This gets the latecomers — any weeds that sprout after your summer spraying. The advantages are obvious.

By going into winter with a weed-free turf, you can spray *later* next spring, when the *late-starting* weeds are coming on. You won't have to spray *early* just to knock out the blooming dandelions!

This is your *first step* toward total control with TRIMEC — the best herbicide available.



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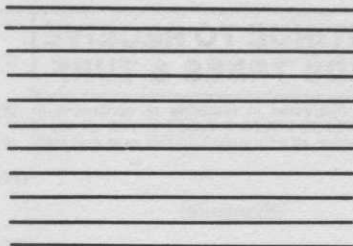
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