ONE GOOD PRODUCT...
TWO GOOD REASONS.

LESCO Sulfur-Coated Fertilizer Plus Oftanol®

One application eliminates white grubs, chinchbugs, sod webworms, mole crickets and other common insects — while providing a safe, long-lasting, slow-release fertilization. Good for the turf and good for you.

LESCO Fertilizer Plus Oftanol® is available in the following formulations: LESCO 30-3-8 plus 1.5% Oftanol® • LESCO 24-4-12 plus 1.5% Oftanol® • LESCO 24-4-8 plus 1.5% Oftanol® (specially formulated with iron and manganese for southern turfgrasses). Straight controls also available: LESCO Oftanol® 1.5% Granular • Oftanol® 5% Granular • Oftanol® 2 Insecticide. Oftanol® is a registered trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen. Distributed by Mobay Chemical Company.

Call Barb to order.
(800) 321-5325 (800) 362-7413
Nationwide Ohio

Lesco, Inc., 20005 Lake Road
Rocky River, Ohio 44116
Circle No. 130 on Reader Inquiry Card
Times are tough for unwanted fungi when Rubigan invades their turf. Dollar spot (even fungicide resistant strains), large brown patch*, fusarium blight, stripe smut and pink or gray snow mold—these troublemakers get their walking papers, starting the day you hire Rubigan.

Prevents and cures.
In addition to the flexibility Rubigan gives you to manage a disease prevention program, it provides effective curative action on dollar spot when applied at slightly higher rates.

Rapid leaf penetration.
As a foliar-applied, quick-penetrating, locally systemic fungicide, Rubigan is absorbed almost immediately into leaf tissue. So it's not susceptible to washoff by rainfall or irrigation once the spray has dried on the leaf. While the spray is drying, the active Rubigan ingredient goes to work inside the plant to start protecting immediately against disease.

No resistance worries.
The bad news for common and susceptible turf fungi started years ago with successful Rubigan E.U.P. usage throughout the United States. Susceptible fungi commonly found in turf just plain haven't been able to develop resistance to Rubigan. The reason is the mode of action Rubigan has—involving three or more sites of inhibition. As a multi-site inhibitor, Rubigan simply attacks fungi at many different sites with a real tough active ingredient. This eases constant worries about resistance.

Longer-lasting control.
Because Rubigan is a very active, concentrated fungicide with long-lasting residual action (up to 28 days on dollar spot), it allows longer intervals between sprayings. So you can reduce application trips, save on fuel and labor. Lower use rates also mean less storage and lower handling costs.

Excellent turfgrass safety.
Rubigan is safe on all commonly grown perennial turfgrass species when used at recommended rates. Fact is, several university turfgrass researchers will tell you Rubigan is as good for your turf as it is devastating for the five major turf diseases it controls. To learn more on how Rubigan can be...
work because works.

Prior to use, do not use Rubigan on turfgrass areas containing Poa annua until this Product Information Bulletin is read and understood.

Precautions: Applications of Rubigan to turfgrass areas containing Poa annua (annual bluegrass) may result in the gradual reduction of this species from the turfgrass area. Cumulative dosages of 5 pounds of Rubigan 50W per acre or 2 ounces per 1,000 sq. ft. are usually necessary for this response to occur. If such a reduction or loss of Poa annua is not acceptable to the user, Rubigan can be used at the minimum label rate (0.2 oz. 50W/1,000 sq. ft.) or in alternating application with contact type fungicides.
Always First
Always Outlasts
35 Years...
Est. 1949

HOFFCO
inc.

HOFFCO has the
cOMPETITIVE EDGE!

Competition is the name
of the game... and Hoffco
is leading with the
GT160T.

the GT160T is...
Small in size
Small in price
Big on performance.

$99.95
Suggested List

Hoffco knows how to
build monofilament trimmers.

• Foolproof starting
  with solid state ignition
• Long wearing auto-centrifugal clutch
• Patented drive shaft system
• Automatic "tap" feed monofilament
  head for ease and convenience
• Dependable 15.4 cc engine

Design features that you expect to pay more for are
standard with Hoffco.

Remember... we don't come apart
when you need parts... we deliver.
Our Parts and Service Program is a
unique part of Hoffco's total selling program...

it works with you and for you.

TURF

even within a city.
Symptoms of injury include
turf under the dripline of trees
and in open areas having a burnt
orange color. When symptoms are
seen, numerous aphids (40 or
more) may be seen on a single
grass blade. Close examination of
damaged turf is necessary be-
cause the aphids are small. If left
untreated, a heavy infestation can
kill the turf. Little damage from
this pest was seen in 1983.

Greenbug infestations may be
controlled with liquid treatments
of Dursban® (1 lb. Al/acre) or Di-
azinon (2.5 lbs. Al/acre). If rein-
festation occurs following treat-
ment with these insecticides,
Orthene (acephate) at labelled
rates has been effective.

FALL (Sept.-Oct.)
Chinchbug—In the northern U.S.,
the second generation of
chinchbug is at peak numbers in
September. Nymphs complete
their development to adults in late
October. Most chinchbugs over-
winter in the turf, but some to pro-
tected areas before winter.

Generally, infestation levels at
this time are not high enough to
warrant the use of insecticides.
Early fall rains and infection by a
parasitic fungus usually provides
sufficient suppression.

Billbug—During September,
billbug adults that developed
from summer larvae are often
seen wandering about on side-
walks, driveways, or other paved
surfaces. Before winter, these
adults seek shelter in thatch, al-
ong sidewalk edges, or near
foundations and overwinter
there. However, many, if not
most, overwinter in the turf.

Grubs—Most species of grubs
are in the third of their three stages
of development and are feeding ac-
tively. When soil temperatures de-
crease in late October the larvae
burrow deep into the soil to over-
winter. Severely cold winters have
little effect on survival.

Treatments of existing grub in-
festations can be accomplished as
late as early- to mid-September.
What makes the Cushman Turf-Care System worth the investment:

Aerating, hauling, dumping, spraying, seeding, spreading and top dressing — one vehicle does the work of a fleet of machines.

The exclusive Cushman pin disconnect system lets you attach and remove accessories in minutes.

The economics behind your decision to invest in the Cushman Turf-Care System are hard to argue with:

Here is a single vehicle that can do the work of a half dozen machines, at a fraction of the cost.

Here is a complete set of turf-care accessories that can be attached or removed in minutes.

Here is a groundskeeping system that's so simple, and so well-crafted, your maintenance and repair time will become practically non-existent.

Economics aside, though, there is an even stronger reason to invest in the Cushman System.

Results.

The Turf-Truckster™. Powered by a rugged 18 hp air-cooled engine, the Cushman Turf-Truckster has the stamina to survive years of constant use.

A 3-speed synchromesh transmission, hydraulic brakes, heavy-duty suspension and a 3/4-ton payload capacity are all standard. And you can choose between a 3-wheel or 4-wheel design.

By itself, the Turf-Truckster is the industry's state-of-the-art work vehicle.

But team it up with any of the following accessories, and you have the makings of an efficient, economical turf-care system.

The aerators.

Because you have two types of turf to aerate, Cushman makes two aerator attachments for your Turf-Truckster.

The Greensaver® is ideal for greens and other delicate areas. Interchangeable aerating drums let you select the precise degree of aeration needed — ½" cores for fast-growth seasons, ¾" cores for slow-growth months, and deep-slicing tines for summer hot spells.

For the rest of your grounds, simply attach the Quick Aerator to your Turf-Truckster. It offers the same choice in aeration tines as the Greensaver, but covers a wide 46" swath.

The dump boxes.

To haul fertilizer, dirt, sand and other supplies, choose our Short Box attachment. It handles 1500-lb. payloads, sits low to the ground for easy loading and can be hydraulically dumped right from the driver's seat.

But for maximum versatility, you may prefer our Flatbed/Box attachment. It does everything the Short Box does, but converts to a flatbed carrier just by removing the sides and tailgate.

The sprayer.

Turf pros swear by this as the finest spraying machine they've ever used. And it's no wonder when you consider all you get:

Uniform spraying controlled by your vehicle's ground speed governor; a PTO-operated centrifugal pump; and your choice of either a 100-gal. tank with a 15' rear boom, or our new 150-gal. tank with a 21' rear boom.

Plus, you can add a versatile handgun attachment for fogging bushes and spraying trees.

The spreader/seeder.

Mounted on either side of the two Cushman dump boxes, the Spreader/Seeder attachment actually outperforms units costing much more.

The spreading rate is regulated by your Turf-Truckster's ground speed governor. Even over irregular terrain, you get uniform spreading.

The corrosion-resistant hopper holds up to 300 pounds of material, and spreads it evenly across a swath up to 40 feet.

The top dresser.

Just 3 pins connect the Top Dresser to your Turf-Truckster chassis, and you're ready to top dress up to 220 feet per minute.

Everything from rock salt to powdered fertilizer can be uniformly spread across a 31½" swath.

A free demonstration.

For a free demonstration of the Cushman Turf System, call Toll Free: 1-800-228-4444 or write: 5233 Cushman, P.O. Box 82409, Lincoln, NE 68501.
PORTABLE REELS FOR WATERING, SPRAYING, FERTILIZING, CLIPPING, EDGING, TRIMMING

Hannay Reels on Wheels take hose or power cable straight to the job and back.

No hassle, no hauling, no dragging, no unkinking, no untangling, no piling, and no time-consuming mess.

For more efficient grounds maintenance, specify Hannay Reels for portable hose or cable handling.

---

Using standard grub insecticides and sufficient (one-half-inch or more) irrigation. Treatment after this time may or may not kill the grubs before they move deeper into the soil to overwinter. Whenever treatment is applied the grubs should be in the top one to two inches of soil.

Black Turfgrass Ataenius—By September, adults of the current generation begin to fly into protected areas, such as golf course roughs, to overwinter. Larvae that have not completed development to adults before frost are killed.

Mole Crickets—Mole cricket nymphs develop through the summer and most become adults by fall. However, recent studies in Florida show some egg laying continues throughout the year.

Greenbug—Severe infestations of greenbug have been known to occur as late as the first week of December. Areas having a history of infestation should be reexamined when mild temperatures extend late into the fall. Heavily-infested turf will not survive through winter.

Late fall infestations may be controlled with the same insecticides used to control the pests during the summer.

---

**Reaction of Kentucky Bluegrass Varieties and Selections to Injury by the Bluegrass Billbug.**

<table>
<thead>
<tr>
<th>Variety or Selection</th>
<th>Percent of Turfgrass Damage</th>
<th>Number of Billbug Larvae per sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA63-188</td>
<td>13.3a*</td>
<td></td>
</tr>
<tr>
<td>Midnight</td>
<td>14.0a</td>
<td></td>
</tr>
<tr>
<td>F-1757</td>
<td>24.7a-b</td>
<td>12.3*</td>
</tr>
<tr>
<td>F-353</td>
<td>26.7a-b</td>
<td>13.0b</td>
</tr>
<tr>
<td>EVB 3275</td>
<td>27.3a-b</td>
<td></td>
</tr>
<tr>
<td>Kenblue</td>
<td>27.4a-b</td>
<td>1.3a</td>
</tr>
<tr>
<td>Eclipse</td>
<td>30.3a-c</td>
<td></td>
</tr>
<tr>
<td>America</td>
<td>31.7a-c</td>
<td></td>
</tr>
<tr>
<td>Majestic</td>
<td>37.7b-d</td>
<td></td>
</tr>
<tr>
<td>Princeton P-104</td>
<td>39.1b-d</td>
<td>14.8b</td>
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<tr>
<td>Admiral</td>
<td>43.3b-e</td>
<td></td>
</tr>
<tr>
<td>Adelphi</td>
<td>49.0c-f</td>
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</tr>
<tr>
<td>Somerset</td>
<td>53.3d-g</td>
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<tr>
<td>Rugby</td>
<td>54.2d-g</td>
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<tr>
<td>Fylking</td>
<td>57.2d-h</td>
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<tr>
<td>Bristol</td>
<td>62.7e-i</td>
<td></td>
</tr>
<tr>
<td>Touchdown</td>
<td>63.33-i</td>
<td></td>
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<tr>
<td>Enmundi</td>
<td>63.3e-i</td>
<td></td>
</tr>
<tr>
<td>Plush</td>
<td>64.3e-i</td>
<td></td>
</tr>
<tr>
<td>Baron</td>
<td>67.8f-L</td>
<td>51.0c</td>
</tr>
<tr>
<td>Bonnieblue</td>
<td>69.3f-j</td>
<td></td>
</tr>
<tr>
<td>Birka</td>
<td>71.0g-j</td>
<td></td>
</tr>
<tr>
<td>Merion</td>
<td>76.0h-j</td>
<td>57.8c</td>
</tr>
<tr>
<td>A-34</td>
<td>78.2i-j</td>
<td></td>
</tr>
<tr>
<td>Victa</td>
<td>79.5i-j</td>
<td></td>
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<tr>
<td>Nugget</td>
<td>82.4i-j</td>
<td>60.3c</td>
</tr>
<tr>
<td>Cheri</td>
<td>83.5i-j</td>
<td>45.3c</td>
</tr>
<tr>
<td>K3-182</td>
<td>87.0j</td>
<td>18.5b</td>
</tr>
<tr>
<td>Ram I</td>
<td>89.3j</td>
<td></td>
</tr>
</tbody>
</table>

*Means values: N = 3 for turfgrass damage and N = 6 for billbug counts. Means not followed by the same letter are significantly different at 5% level by Duncan's multiple range test.

Test results from one year's data.
Put Out Pythium, 
Fast!

Break Out Terraneb SP.

Terraneb SP Turf Fungicide gives you fast, effective control of pythium without burning your turf.

You’ll get proven, consistent performance with Terraneb SP at lower use-rates than competitive products.

With Terraneb SP on hand you know you’ll be ready to move fast against fast-spreading pythium.

TIME TESTED
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For further information write,

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or see your local distributor.
Here's a clue. D-z-n® Diazinon® controls every insect you see here, from the root-eating white grub to the juice-sucking chinch bug. In fact, D-z-n Diazinon has the biggest label of any turf insecticide. And that makes it the perfect choice for broad spectrum control in both commercial and residential turf.

Need another clue? D-z-n controls damaging worms including...
insects are hiding picture?

Cutworms, sod webworms and armyworms. Plus it takes care of nuisance pests like ants, fleas and chiggers.

We've mentioned 8 species on the label but that's not even half.

Keep counting. And when you place your next insecticide order, ask your supplier for the biggest label in the business—D-Z-N Diazinon.

PS: You'll find the answer below.

CIBA-GEIGY
Insect damage to woody ornamentals can vary from insignificant to widespread destruction that eventually results in death.

There are many ornamental plants, each with an assortment of insects attacking it. This results in a relatively large number of insect pests that can be destructive to ornamentals. Fortunately, all of these insect pests do not appear at one time or in one year, since many of them are cyclic.

Insect control is dependent on early recognition of the specific insect, its significance in the area, its life cycle or biology, a practical approach to control if needed, and materials to use on the pest and their effect on the environment.

Insect damage may be severe during one season and not others. You might consider what will happen in the future if nothing is done? How does the client view