need for nitrogen. Rugby scored well at low to moderate nitrogen fertility levels. And maintained good turf quality and density under no-nitrogen conditions.

In short, Rugby needs some nitrogen, but it doesn't need to wallow in it. So you can spend your time and money where it does more good.

But not on extra fungicide. Rugby resists Fusarium blight, leaf spot, dollar spot, stem rust, and powdery mildew.

Rugby also offers you the benefits of a low growth habit. And only the blades grow vertically. So mowers clip the leaf ends only, not the crucial growth-sustaining lower stems.

With Rugby, you can have rich, dense Kentucky bluegrass. For less nitrogen. Less water. And less time. That's nothing to snort at.

Devour Nitrogen, You're Raising.
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Purchase Order Number __________

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<table>
<thead>
<tr>
<th>BOOK NUMBER AND TITLE</th>
<th>QUANTITY</th>
<th>PRICE</th>
<th>TOTAL PRICE</th>
</tr>
</thead>
</table>

*Please add $3.00 per order plus $1.00 per additional copy for postage and handling

Please allow 6-8 weeks for delivery.
 Prices subject to change.
Quantity rates available on request.

Total Enclosed ____________

WTT 44
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<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>FIRM</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
</table>

For MY PRIMARY BUSINESS AT THIS LOCATION IS: (PLEASE CHECK ONE ONLY IN EITHER A, B OR C)

A. LANDSCAPING/GROUND CARE AT ONE OF THE FOLLOWING TYPES OF FACILITIES:

- Golf courses
- Sport complexes
- Parks
- Rights-of-way maintenance for highways, railroads & utilities
- Schools, colleges & universities
- Industrial & office parks/plants
- Condominiums/apartments/housing developments/hotels/resorts
- Cemeteries/memorial gardens
- Military installations & prisons
- Airports
- Multiple government/municipal facilities

B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:

- Landscape contractors (installation & maintenance)
- Lawn care service companies
- Landscape architects
- Extension agents/consultants for horticulture
- Other contractor or service (please specify)

C. SUPPLIERS:

- Sod growers
- Dealers, Distributors
- Other supplier (please specify)

Approximately how many acres of vegetation do you maintain or manage?

What is your title? (please specify)

I would like to receive (continue receiving) WEEDS TREES & TURF each month: YES □ NO □

Your Signature: ___________________________ Date: ___________________________
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Turn disease problems into profits with CHIPCO® 26019 fungicide.

Selling disease control is a great way to boost profits and attract new customers.

And CHIPCO® 26019 is the ideal product to help you do both.

The selling proposition: a beautiful, disease-free lawn.

Everything you do for a customer is designed to create a beautiful lawn. Turf diseases look bad...and that can make you look bad.

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Monmouth Junction, NJ 08852

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Always First
Always Outlasts
35 Years...
Est. 1949

JP420
8" Tri-Kut Weed Blade, T&P Two-line Monofilament Head standard equipment

In 1952, Hoffco built a special gasoline-powered portable brushcutter for the U.S. Forestry Service: A fast, dependable way to clear firebreaks and save trees.

In 1972, Hoffco engineered and built the first gasoline-powered monofilament line trimmer for homeowners: A quicker, better way to trim along walls and edge along walks.

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In today’s market, you need a full line of gasoline powered portable clearing equipment that handles the tough jobs, the easy ones and everything in between. You need a well-engineered, quality-made product that works right and holds up. You need parts service you can depend on for years to come.

You get it all from Hoffco, the company with the strongest roots. Ready for the growing seasons ahead.

WT&T

COMPUTERS from page 66

Tree inventory cards and work forms are needed in establishing technical information for the computer master file. This data will vary according to environment, type of organization, and individual needs.

Things to consider when setting up the technical forms are:
1. any type of hazard
2. insect problems
3. disease problems
4. root problems
5. tree species
6. diameter
7. height
8. spread
9. type of pruning (thin out, lift skirts, line clearance)
10. stake young trees
11. tree planting
12. grind stumps

When you get the first computer readout, you might be surprised to find you are spending far too much time on one certain type of tree. If this were the case, you could plan to remove unwanted, high-maintenance trees, or make sure that species is not planted in the future.

It is not practical in a small city to remove all unwanted species just because the computer printout identifies a problem.

Just recently, the tree statistic printout gave us the numerical amount and tree varieties pruned in a one-month period. The information was very helpful and informative in making out my monthly reports.

In the beginning we had a few problems filling out the new work order forms, but with some training this was corrected. It is important to get input from the field personnel, especially when making any modifications to the existing program.

The most important factor is just how functional is your program and is it an improvement over your previous record system? We have found the printout information has been very helpful in preparing monthly reports, annual budgets, and special reports to the Parks and Human Services Commission and City Council.
Tough mowers... from rough cut to smooth finish.

Built for the commercial user, to assure lowest operational cost through efficient design, low fuel consumption, low maintenance, and long life. Built to take the hard usage of the commercial mower operator and the environment in which the commercial mower functions.

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Circle No. 124 on Reader Inquiry Card
HERE’S PROOF SEEDING WITH HYDRO MULCH FIBERS CAN QUICKLY PUT YOUR PROJECT IN THE BLACK.

Compare the total installed cost of HYDRO MULCH fibers to ordinary straw for turf establishment.

<table>
<thead>
<tr>
<th></th>
<th>Hydraulic Mulching (2 people) ($12 per hour)</th>
<th>Straw Mulching (5 people) ($12 per hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HIDDEN OVERHEAD</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Start-up</td>
<td>$30</td>
<td>$156</td>
</tr>
<tr>
<td>• Pick up • Prep &amp; load equipment • Travel time • Set up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Shut-down</td>
<td>$60</td>
<td>$216</td>
</tr>
<tr>
<td>• Break time • Clean-up • Loading • Travel time</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL OVERHEAD</strong></td>
<td>$90</td>
<td>$372</td>
</tr>
<tr>
<td><strong>VARIABLE COSTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Materials (per acre)</td>
<td>$200</td>
<td>$125</td>
</tr>
<tr>
<td>• 1500 lbs HYDRO MULCH fibers vs. 100 straw bales</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Application (per acre)</td>
<td>$31</td>
<td>$39</td>
</tr>
<tr>
<td>• Hydro seed, fertilize, apply HYDRO MULCH fibers vs. hydro seed, fertilize, apply straw, crimp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Equipment (per acre)</td>
<td>$30</td>
<td>$50</td>
</tr>
<tr>
<td>• Fuel, maintenance, depreciation</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL VARIABLE</strong> (per acre)</td>
<td>$261</td>
<td>$214</td>
</tr>
<tr>
<td><strong>TOTAL INSTALLED COST</strong></td>
<td>$351</td>
<td>$586</td>
</tr>
</tbody>
</table>

In many of today's projects, hydraulic mulching with HYDRO MULCH fibers can be less costly than straw mulching. That's because there's usually less hidden overhead. So while savings vary from project to project, you owe it to yourself to find out more. After all, the results are in black and white.

To see if Conwed can save you money on your next project, call (612) 221-1196. Or write us: Conwed Corporation, Fibers Division, P.O. Box 43237, St. Paul, MN 55164.

*HYDRO MULCH is a federally registered trademark of Conwed Corporation. Any use of HYDRO MULCH beyond reference to Conwed's wood fiber mulch may constitute infringement under the Trademark Laws of the United States.

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SURVEY from page 46

nance, including mowing, roads, buildings, a golf course, and the West Point stadium. When you have 16,000 acres to take care of, 1,500 of this high maintenance, you simply don't have time to give plants the special attention they need.

In past surveys, we have found autonomous park districts receive stronger support for the horticultural and agronomic needs of landscapes. Joel Carter, chairman of the Ornamental Horticulture Department, California State Polytechnic University, Pomona, suggests the best park administrators are those who appreciate horticulture and park management. "Lean too much in either direction (horticulture or park administration) and your ability to make decisions is limited," Carter said.

Public schools
If managers of park landscapes have to constantly sell their programs just to meet basic needs, imagine what managers of public school landscapes have to face. At least in a park the purpose is recreation in a natural, outdoor setting. At schools, the purpose is education, and everything else is secondary.

For this report we interviewed maintenance managers and school superintendents. Clarence Lee, maintenance manager of Valley View Schools, Romeoville, IL, is responsible for 350 acres, 16 schools and a $750,000 budget. His staff of five does it all, often transporting equipment from one school to another.

"My biggest job is keeping kids off the grass while we are trying to make repairs," Lee said. "In the summer I use CETA workers to help us catch up. During the growing season, we spend nearly all our time mowing. It takes us a week to do all the schools and then we start over again. The three high school football fields receive special attention, including aerification, extra fertilization and weed control. Our budget to do all this has grown about five percent per year."

The budget is slim and needs
At the rugged Shoal Creek course, host of the 1984 PGA Championship August 16-19, 1984, the touring professionals will again be putting on Penncross creeping bentgrass. Penncross and Penneagle, the Penn Pals, are no strangers to the pros. Most of the recent major championships have been played on one or the other. The Western open at Butler was played on Penneagle fairways and greens. The 1983 US Open at Oakmont was played on Penneagle tees, fairways and greens. Maybe you saw the sixty-foot putt on Penneagle.

So, when the Shoal Creek course was designed, it’s no wonder Penncross was specified for the putting surface. It was a ‘natural’ to choose Penncross bentgrass, with its glorious history, for a course with a sparkling future!

Shoal Creek, Alabama

Penneagle’s Oregon certified blue tags qualify for cash awards to qualifying turf organizations for turf research. Call our toll-free number for details.

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The T110 Hydroseeder has all of the time-tested features of FINN's largest tanks which allows it to handle a wide variety of materials with ease. With one tankload (1000 Gallon capacity), the T110 can seed, fertilize, and mulch up to ½ acre — or seed and fertilize only up to ½ acres — at distances up to 90 feet. Available as the popular gooseneck model or skid-mounted.

The B50 Mulch Spreader separates and spreads up to 5 tons of straw or hay much per hour with a range of up to 55 feet. Plus — the B50's uniform ground coverage means a 50% saving in material costs over the hand spreading method. Trailer or skid-mounted.

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