ALOTISONTHELINE

With Safe Athletic Fields

Player Injuries * Team Records * Alumni/Fan Support The Spirit of Sports * Your Job

Why face all this responsibility alone? There is an association of fellow sports field managers waiting to share their experiences with you. Members of the Sports Turf Managers Association include grounds superintendents of high school and college campuses, park superintendents, and field managers for professional football, baseball, and soccer teams. Each member has something to lend to the advancement of athletic field management.

STMA members manage utility turf, fine turf, cool-season turf, warm-season turf, clay fields, sand fields, and even artificial fields. They are anxious to share what they have discovered that works.

The bottom line is budgets are matters of

fact, not luck or secrets. And, today, persons responsible for millions of dollars of recreational property need facts.

STMA members exchange their ideas through a bimonthly newsletter, regional seminars, and an annual conference and show. The membership directory puts the names and phone numbers of fellow members and suppliers at your fingertips for help in emergencies, or just for bouncing ideas off of each other.

Be your own expert with the help of fellow sports field managers. Fill out the membership coupon below and mail it today. You don't have to face the challenges of sports field management by yourself anymore.

Sports Turf Milliowing Manager's Association	Please send check for appropriate amount to Sports Turf Managers Association, c/o Don Marshall, Anaheim Sta- dium, 2000 S. State College Blvd., Anaheim, CA 92806. For more information contact Kent Kurtz, executive secretary, STMA, (714) 598-4167.
	NAME
MEMBERSHIP CATEGORIES	TITLE
PROFESSIONAL OR UNIVERSITY SPORTS FACILITY (\$50)	FACILITY
2 EDUCATORS/ PARKS, HIGH SCHOOLS (\$30)	ADDRESS
	CITYSTATEZIP
3 STUDENTS (\$10)	PHONE NUMBER
4 COMMERCIAL/ AFFILIATES (\$100)	SIGNATURE

Hannay Portable Hose and Cable Reels Go Where

- Lightweight and durable
- Eliminates struggling with knotted, tangled hose or cable

The Action Is

- Saves labor costs
- Features direct crank rewind for fast, effortless pickup



Hannay
Portable Hose
and Cable Reels
help you get
the job done—
wherever the
job is. These
dependable reels
bring your power
or water source
right where you
want it for the



indoor/outdoor mobility you need. Hannay Portable Reels are available in handy, easyto-carry models or with sturdy, easy-rolling wheels. And with fast, easy pickup, they'll reduce labor time. Convenient and efficient. That's the story behind Hannay's full line of portable reels.

Send for more information on these and other Hannay Reels, available in a wide selection of sizes, shapes and capacities, for all your hose and cable handling needs.



Send today for your free literature packet.



CLIFFORD B. HANNAY & SON, INC., 600 EAST MAIN STREET WESTERLO, NEW YORK 12193 * TELEPHONE (518) 797-3791

Circle No. 124 on Reader Inquiry Card

503-928-5868

continued

Kentucky Bluegrasses: Melba, Trampas; Perennial Ryegrasses: Polly Hybrid; Fescues: Puma, Veni; Bentgrass: Parys; Turfseed Mixes or Blends: Turfgem VIP; Other: Wildflowers

Full Circle Inc 116 NW Depot Rd PO Box 49 Madras OR 97741 503-475-3877 Kentucky Bluegrasses: Merit

Garfield Williamson Co 1072 West Side Ave Jersey City NJ 07306 201-435-3500

Kentucky Bluegrasses: Eclipse; Perennia Ryegrasses: Omega II; Fescues: Jaguar Tall; Turfseed Mixes or Blends: Eagle 3 Brand Professional and Overseed Brands

Grasslyn Inc 641 Pine Grove Rd State College PA 16801 814-238-0133 Seed Types: Penngift Crownvetch

Great Western Seed Co 810 Jackson St Albany OR 97321 503-928-3100

Kentucky Bluegrasses: Common, Baron, Nassau, Mystic, Georgetown, Ram I; Perennial Ryegrasses: Palmer, Prelude, Cowboy, Diplomat, Repell, Yorktown II; Fescues: Clemfine, Rebel, Rebel II (Tall) Jamestown (Fine); Turfseed Mixes or Blends: Marvelgreen Line (many formulas), Par 3 (perennial ryegrass)

Jonathan Green & Sons Inc Squakum-Yellowbrook Rd PO Box 326 Farmingdale NJ 07727 201-938-7007

Geo W Hill & Co 8010 Dixie Hwy PO Box 787 Florence KY 41042 606-371-8423 Kentucky Bluegrasses: Ec

Kentucky Bluegrasses: Eclipse; Perennial Ryegrasses: Regal, Derby, Manhattan II, Pennant; Fescues: Finelawn Turf-Type Tall, Jaguar Turf Type Tall; Turfseed Mixes or Blends: Triple Play Turf-Type Perennial Ryegrass Blend

★International Seeds Inc 820 First St PO Box 168 Halsey OR 97348 503-369-2251 Kentucky Bluegrasses:

Kentucky Bluegrasses: Vantage; Perennial Ryegrasses: Derby, Regal, Gator; Fescues: Highlight (Chewing), Red, Ensylva (Creeping), Houndog (Tall); Bentgrasses: Emerald, Penncross, Penneagle; Turfseed Mixes or Blends: Dixie Green Mix, Dixie Green/Sabre Mix, Ph D Overseeding Blend, Ph D/Sabre

★ Jacklin Seed Co W 5300 Jacklin Ave Post Falls ID 83854 208-773-7581 Kentucky Bluegrasses: Nugget, Glade, Adelphi, Eclipse, Classic, 98/85 Standard, 85/80 Standard, A-34, Julia, Geronimo, Merion, Troy, Wabash, Nassau, Ram I, Fylking, Cheri; Perennial Ryegrasses: All Star, Uncertified Manhattan, Certified Manhattan, Pennfine; Fescues: Arid (Tall), Cascade (Chewing), Logro Spreading, Countess (Chewing); Bentgrasses: Penncross, Seaside, Penneagle; Other: Environmental; Reubens Canada Bluegrass reclamation, grass seeds, Streaker redtop, Pinto Wildflower and Grass Seed Mixtures

★Lesco Inc 20005 Lake Rd Rocky River OH 44116 216-333-9250

Turfseed Mixes or Blends: Lesco Tuf-Turf, Tall Fescue & KY Blue; Lesco Park & Athletic, KY Blue, Red Fescue, Perennial Rye; Lesco CBS, Perennial Rye Mix; Lesco Classic, KY Blue, Perennial Rye, Chewing Fescue; Lesco Quality Blue, KY Blue Mix; Lesco Transition, Tall Fescue Mix

★ Loft Seed Inc Chimney Rock Rd PO Box 146 Bound Brook NJ 08805 201-356-8700

Seed Types: Clemfine Tall Fescue, Rebel Tall Fescue, Prelude & Palmer Perennial Ryegrasses, Diplomat & Yorktown II Perennial Ryegrasses, Baron & Ram I KY Bluegrasses

Mangelsdorf Seed Co PO Box 327 St Louis MO 63166 314-535-6700 Kentucky Bluegrasses: Arboretum

★ Manhattan Ryegrass Growers Assoc 1349 Capitol St NE Salem OR 97303 503-363-1022 Perennial Ryegrasses: Manhattan, Manhattan II

Normarc Inc PO Box 238 Tangent OR 97389 502-926-5801 Seed Types: Premier Perennial Ryegrass

★ Northrup King Co Medalist Turf Products Div 1500 NE Jackson St Minneapolis MN 55413 612-781-8011

Kentucky Bluegrasses: Cert Parade, Rugby, Aquila, Park, Aspen, Adelphi; Perennial Ryegrasses: NK200, Delray, Pennfine, Goalie, Eton; Fescues: Ruby (Creeping), Dawson Red, Atlanta (Chewing), Scaldis (hard), Galway (Tall); Bentgrasses: Penncross, Penneagle, Seaside; Turfseed Mixes or Blends: Athletic Pro, Athletic Pro II, Overseeder II, Medalist North, Special Park, Premier Turf, Premium Sod, Swift & Sure, Shady Turf, Landscape Pro, Renovator Pro, Boulevard Mix; Winter Overseeding Products: Medalist 5, 6, 7, 60/40, 300,

continued

400, Accent; Other: Fults Puccinellia Distans

Oregon Fine Fescue Commission 2140 Turner Rd SE Salem OR 97302 503-585-1157 Fescue: Fine Fescue

★ Oregon Tall 2140 Turner Rd Southeast Salem OR 97302 503-585-1157 Fescue: Tall Fescue

Oregon Ryegrass Growers Seed Commission 4093 12th St Southeast Salem OR 97302 503-364-3346 Perennial Ryegrasses: Oregon Ryegrasses; Other: Annual Ryegrasses

Oseco Inc
PO Box 219
Brampton ON L6V 2L2
Canada
416-846-5080
Kentucky Bluegrasses: Baron, Birka,
Haga, Sydsport, Majestic, Plush;
Perennial Ryegrasses: Barry, Yorktown
II; Fescues: Banner (Chewing), Biljart
(hard), Fortress Spreading Red,
Highlight (Chewing), Reptans Red
(Creeping); Bentgrasses: Emerald
(Creeping);

Patten Seed Co 119 Murrell Ave Lakeland GA 31635 912-482-3131 Other: Centipede Grass Seed

Pennfine Perennial Ryegrass PO Box 923 Minneapolis MN 55440 612-781-8011 Perennial Ryegrasses: Pennfine

Otto Pick & Sons Seeds Ltd

Otto Pick & Sons Seeds Ltd

Peterson Seed Co PO Box 346 Savage MN 55378 612-445-2606 Kentucky Bluegrasses: Monopoly, Classic, Eclipse

Box 126
Richmond Hill ON
Canada L4C 4X9
416-884-1147
Kentucky Bluegrasses: America, Banff,
Nugget, Touchdown; Perennial
Ryegrasses: Blazer, Fiesta; Fescues:
Agram, Mustang, Tournament;
Bentgrasses: Exeter; Other: Futura Blue,
Futura Boulevard, Nature's Meadow
Wildflower Seed

4750 Lesage CP 151
St Hyacinthe PQ
Canada J2S 7B4
514-799-4586
Seed Types: Banff KY Bluegrass, Cheri KY
Bluegrass, Dormie KY Bluegrass, Fylking
KY Bluegrass, Nugget KY Bluegrass,

Ram I KY Bluegrass, Touchdown KY Bluegrass, Barone KY Bluegrass, Adelphi KY Bluegrass, Merion KY Bluegrass, Park KY Bluegrass, Canon Canada Bluegrass, Common Canada Bluegrass, Reubens Canada Bluegrass, Agram Chewing Fescue, Jamestown Chewing Fescue, Pennlawn Creeping Red Fescue, Tournament Hard Fescue, Blazer Ryegrass, Fiesta Ryegrass, Derby Ryegrass, Manhattan Ryegrass, Pennfine Ryegrass, Exeter Colonial Bentgrass, Penncross Creeping Bentgrass, Emerald Creeping Bentgrass, Astoria Coloniale Bentgrass, Seaside Creeping Bentgrass, Highland Coloniale Bentgrass

Otto Pick & Sons Seeds Ltd RR 2 Box 4 Group 200 1885 Brookside Blvd Winnipeg MB Canada R3C 2E6 204-633-0088 Kentucky Bluegrasses: Nugget, Touchdown, A34 Benson, America, Ram I, Banff, Cheri, Fylking, Dormie, Baron, Adelphi, Glade, Birka, Merion, Park; Fescues: Agrams, Jamestown, Banner (Chewing), Fortress, Pennlawn, Reptans, Barel (Creeping), Tournament, Biljart (Hard); Bentgrasses: Exeter, Highland (COL), Penncross, Creeping, Penneagle, Emerald, Seaside

Pickseed West Inc PO Box 888 Tangent OR 97389 503-926-8886

Kentucky Bluegrasses: America, Bensun (A-34), Banff, Nugget, Touchdown; Perennial Ryegrasses: Blazer, Dasher, Fiesta, Jazz; Fescues: Mustang & Maverick (Tall), Agram (Chewing), Spartan & Tournament (Hard), Azay Sheep; Bentgrasses: Exeter Colonial; Turfseed Mixes or Blends: Futura Plus (Blazer, Dasher & Fiesta Perennial Ryegrass); Other: Colt poa trivials

Pioneer Hi-Bred International See Peterson Seed Co

Prairie Seeds Ltd RR 1 South Edmonton AB Canada T6H 4N6 Kentucky Bluegrasses: Adelphi, Baron, Glade, Haga, Nugget, Ram I, Regent, Sydsport; Perennial Ryegrasses: Common, Derby, Manhattan, Norlea: Fescues: Highlight, Jamestown (Chewing), Boreal, Pennlawn (Creeping red); Bentgrasses: Penncross, Penneagle, Prominent; Turfseed Mixes or Blends: (Standard Park Mix) Crested Wheatgrass, Creeping Red Fescue, Kentucky Bluegrass, Annual Ryegrass: (Southern Roadside Mix) Parkway Crested Wheatgrass, Kentucky



Tested & Highly Rated Nationwide!

Finelawn 1 Turf Type Tall Fescue proved to be an extremely excellent lawn seed. Its bountiful green color and attractive, narrow tapering leaves were

judged high quality. Plus Finelawn 1 demonstrated significant resistance to heat, drought and disease.
Tested beauty and toughness -- it's what makes Finelawn 1 an outstanding choice for home lawns, commercial lawns and recreational facilities.

Available at your local Lawn Seed Dealer.

Rothwell Seeds Ltd

continued

Bluegrass, Boreal Creeping Red Fescue, Durar Hard Fescue, Sodar Streambank Wheatgrass, Manhattan Perennial Ryegrass, Alkaligrass

Roberts Seed Co PO Box 206 Tangent OR 97389 Kentucky Bluegrasses: Proprietary Bluegrasses; Perennial Ryegrasses: Proprietary Ryegrasses; Fescues: Proprietary Turf Types; Bentgrasses: **Proprietary Bentgrasses**

PO Box 511 Lindsay ON Canada K9V 4S5 705-324-9591 Kentucky Bluegrasses: Adelphi, Glade, Eclipse, Geronimo, Classic, Julia, Midnight, Harmony, Merit (Regent) Welcome; Perennial Ryegrasses: Pennant, All Star, Pennfine, Manhattan, Diplomat, Derby; Fescues: Barfalla Chewings, Hard & Sheeps, Creeping Red, Koker (Chewings); Bentgrasses: Bardot, Prominent, Pennecrosse, Penneagle, Colonial, New Zealand Browntop; Turfseed Mixes or Blends: By prescription; Other: (Agricultural Seeds) Alfalfa, Red Clover, Crownvetch, Birdsfoot Trefoil, Timothy Bromegrass, OrchardGrass, etc.

★ O M Scott & Sons Co 14111 Scottslawn Rd Marysville OH 43041 513-644-0011 Kentucky Bluegrasses: Victa, Bristol, Merit; Perennial Ryegrass: Loretta, Pennant; Turfseed Mixes or Blends: Utility Turf, Transistion Sports Turf, Winter Turf

Seed Production & Introduction Corp PO Box 923 Minneapolis MN 55440 612-781-8011 Kentucky Bluegrasses: Rugby; Perennial Ryegrasses: Pennfine

Seed Research 29730 Harvest Dr Albany OR 97321 503-757-2663 Bentgrasses: Prominent Creeping Bentgrass; Turfseed Mixes or Blends: Champion=Prelude, Premier, Palmer

Southern Turf Nurseries 5172A Indian Trail Ind Pkwy Norcross GA 30091 800-522-7333 Sod/Sprigs (South Only): All Warm Season Turfgrass

Stanford Seed Co Buffalo NY 14240 716-825-3300

Seed Types: Koket Chewings Fescue, Old English, Crown Vetch, Pennfine Perennial Ryegrass, Rugby KY Bluegrass

Stanford Seed Co Muddly Creek Rd RR #1 Box 405 Denver PA 17517 215-267-3805

Kentucky Bluegrasses: Common and many proprietary varieties; Perennial Ryegrasses: Common and many proprietary varieties; Fescues: Tall, Creeping, Chewings; Bentgrasses: Common and many proprietary varieties; Turfseed Mixes or Blends: Mixed to customers specifications

Sunbelt Seeds Inc 5172 Indian Trail Ind Pkwy Ste A Norcross GA 30071 404-448-9932 See Listing for Lofts Seed Inc

Tee-2-Green Corp PO Box 250 Hubbard OR 97032 503-981-9574 800-547-0255 Bentgrasses: Penncross (Creeping), Penneagle (Creeping)

★ Turf Merchants PO Box 1467 Albany OR 97321 503-491-3622

Perennial Ryegrasses: Manhattan II, Barry

Turf-Seed Inc PO Box 250 Hubbard OR 97032 503-981-9571

Kentucky Bluegrasses: Columbia, Sydsport, Midnight, Bensun (A-er), Challenger; Perennial Ryegrasses: Citation II, Omega II, Birdie II, Manhattan Il Fescues: Flyer Creeping Red Fortress Red, Shadow Chewings, Shadow Fine, Waldina Hard, Aurora Hard, Olympic Tall, Falcon Tall, Bonanza Tall, Apache Tall; Bentgrasses: Penncross Creeping, Penneagle Creeping; Turfseed Mixes or Blends: Polo Brand Mixture: Kentucky Bluegrass, Perennial Ryegrass, Fine Fescue - Galaxy: Columbia, Midnight, Challenger, Sydsport - Triathalawn: Olympic, Apache, Bonanza

Vaughan's Seed Co 5300 Katrine Ave Downers Grove IL 60515 312-969-6300 Seed Types: Adelphi KY Bluegrass, Citation Perennial Ryegrass

Vaughan's Seed Co Chimney Rock Rd Bound Brook NJ 08805 201-356-4200 Seed Types: Adelphi KY Bluegrass, Glade KY Bluegrass, Cheri KY Bluegrass, Merit KY Bluegrass, Touchdown KY Bluegrass, Pennant Perennial Ryegrass, Citation

Ryegrass

*NEW — WORK SAVING, TIME SAVING



HARLEY STONE RAKES AND PICKERS!

*NEW! FASTER DOUBLE ROLLER POWER RAKE! AS A STONE RAKE - Rakes rocks, roots, trash, etc.

Levels & Fills — GREAT SEED BED!

AS A DE-THATCHER - Scarifies, aerates as it rakes thatch into windrow for easy pickup.

 Athletic Fields
 Parks
 Beaches
 Race Tracks •Commercial & Residential Development •Land Reclamation

*NEW! MINI-HARLEY STONE PICKER!

For small area manuvering half size of other Harleys! Pick 1/2" to 14" stone - fast!

Brochures - Video - Contact:





(701) 252-9300 • 1-800-437-9779 • Dealer Inquiries Invited

Circle No. 174 on Reader Inquiry Card

Perennial Ryegrass, Regal Perennial

continued

* Warren's Turf Nursery Inc Chadbourne & Cordelia PO Box 459 Suisun City CA 94585 707-422-5100 CA 800-828-8873

Kentucky Bluegrasses: A-34 BenSun; Fescues: Adventure (Tall)

Whitney Dickinson Seeds Inc 52 Leslie St Buffalo NY 14211

716-896-1111 Seed Types: Pennfine Perennial Ryegrass, Manhattan Perennial Ryegrass, Manhattan II Perennial Ryegrass, Rugby **KY Bluegrass**

NOTES:



Circle No. 142 on Reader Inquiry Card



Circle No. 168 on Reader Inquiry Card



NEW 10 GALLON WS-490 MOTORLESS LIQUID CHEMICAL SPREADER

The 10 gallon Greens Wheelie is the most accurate and trouble-free liquid applicator manufactured. It features a motorless, ground-driven pumping system which does not require gasoline, batteries, cords or water hoses. It was designed for professional grounds maintenance on golf courses, parks, institutions and cemeteries. The Greens Wheelie is used to apply liquid fertilizers, herbicides, fungicides, insecticides and growth regulators. It is equipped with

fungicides, insecticides and growth regulators. It is equipped with large easy-to-push pneumatic type tires and a large 10 gallon tank with a wide mouth lid for easy filling.

The twin wheel pumps spray a fan of solution 6' wide, with an overlap at the center, at the rate of 1000 sq. ft, per gallon. The spray pattern is delivered from 2 nozzles in the form of tiny droplets providing a steady, uniform application which greatly reduces costly chemical drifting. The shut-off controls, located on the handle grips, allow the operator to regulate the nozzles independently.

Corrosive resistant materials are used in the construction of the shut-off valves, pumping system and the 10 gallon tank allowing the use of chemicals which are harmful to traditional liquid applicators.

The WS-490 Greens Wheelie delivers chemical applications which are relatively unchanged by the speed at which the sprayer is

which are relatively unchanged by the speed at which the sprayer is pushed. The faster it is pushed, the faster it pumps. When the operator stops, the sprayer stops pumping. (Other models and sizes

WHEEL SPRAY CORPORATION Box 97, Delafield, WI 53018 — PH: (414) 646-8640

Circle No. 172 on Reader Inquiry Card SEPTEMBER 1985/WEEDS TREES & TURF 145

PROBLEM SOLVERS

by Balakrishna Rao, Ph.D.

Quackgrass headaches

Problem: I think we have a quackgrass problem in our lawn. Would you please describe how it can be identified and also how it can be controlled? I would appreciate your comments. (Pennsylvania)

Solution: Quackgrass (Agropyron repens) is a perennial weed which spreads by lateral, underground, whitish stems called rhizomes with many nodes (joints) and pointed tips. These tips can turn upward and become fast-growing leafy shoots. The plant produces roots from the nodes. Every leaf has a membranous "ligule" at the base of the leaf where it joins the sheath, and a pair of small, hook-like "auricles" which clasp around the stem.

There is no herbicide registered for selectively removing quackgrass from established lawns. Nonselective herbicides like Roundup can be used but they will kill the desirable grass also. A quackgrass problem can be minimized by following good

cultural practices.

Reports indicate quackgrass is not able to compete with a well-maintained turf with good density. Repeated mowing, especially if the mower is not set low, can create stress on quackgrass. Maintain a good turfgrass management program, such as mowing and fertilization, to improve the density and health of desirable turfgrass. Well-maintained turfgrass may crowd out and reduce quackgrass over a period of several years. Remember that reinfestation of quackgrass can occur through seeds or rhizomes from nearby areas or from topdressing materials.

Moles a gridiron problem

Problem: How do you get rid of ground moles in a football field? (Michigan)

Are there any new products to eradicate moles other than using Oftanol for grubs? (Indiana)

Solution: Moles damage lawns and gardens through their tunneling activities in search of insect larvae and earthworms. They dig a network of deep tunnels (10-18 feet deep) for permanent use and a network of surface burrows with characteristic ridges of soil above them for temporary use.

These tunnels cause grass roots to die and present a problem while mowing. Moles are active tunnelers and can tunnel at a rate of 12-15 feet per hour. Sometimes surface tunnels can be formed at a rate of one foot per minute. Surface tunnels are used once for

feeding and then abandoned.

Moles are difficult to control because they live mostly within their deeper tunnels. Common control measures include: trapping, elimination of food supply by use of insecticides, use of poisonous baits, or fumigation. Trapping and the elimination of insects are the most effective control measures.

Traps (harpoon or choker seem to work best) should be set near tunnels that are in current use. To detect inhabited tunnels, roll or tramp down the ridge of soil. If the tunnels are raised the next day, set the trap in that place and repeat this for several days. Deeper tunnels can be located by pushing a pointed rod or stick into the ground.

If grubs are the major source of food they should be controlled with insecticides. Poisoned baits are usually not effective because moles, being carnivorous, generally ignore them. Gas treatments don't solve the problem because gases diffuse out of

the tunnels.

However, reports indicate that a fumigant tablet called Phostoxin can effectively eliminate moles.

First, inspect the property and detect all active burrows showing signs of freshly excavated soil. Abandoned burrows often end abruptly and collapse. For effective control, large portions of active burrows should be treated. Carefully make holes in the top of the burrows and place two Phostoxin tablets every five to ten feet in the active burrows. Moist but not wet conditions are preferred for treatment. Seal the hole with wadded paper and soil. Wait for three days and then tramp or roll the untreated area. Repeat treatment may be necessary if new burrows develop. Read the label and follow the directions.

Another report suggests that Juicy Fruit gum (Wm. Wrigley Jr. Company) also can manage the mole problem. Wear gloves to avoid getting human scent on the gum, make holes in the active burrows, unwrap a fresh pack of gum, roll each piece like a carpet, place them in the burrows, and seal the openings with sod. Moles cannot digest chewing gum and die a day or so after eating it.

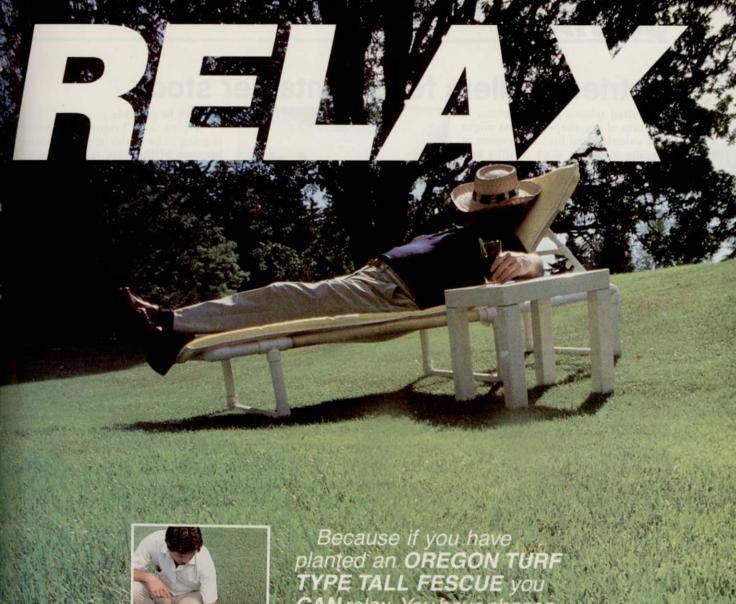
Unsightly raised areas should be leveled with light rolling using a tank roller without the water. Make sure the area is moist but not wet to avoid compaction. This should help minimize problems

during mowing.



Balakrishna Rao is Director of Lawn Care Technical Resources for Davey Tree Expert Co., Kent, OH.

Questions should be mailed to Problem Solver, Weeds Trees & Turf, 7500 Old Oak Boulevard, Cleveland, Ohio 44130. Please allow 2-3 months for an answer to appear in the magazine



CAN relax. You have chosen the hardy seed used by lawn care professionals all over America. Oregon Tall Fescue is a beautiful, low maintenance, exceptionally

green turf. It is shade tolerant, drought and disease resistant.

Insist on Oregon Grown Tur Type Tall Fescue, plant yourself in your lawn lounge, and . . .

OREGON TALL FESCUE COM

2140 TURNER RD. S.E. SALEM, OREGON 9730

Phone (503) 585-1157 Circle No. 226 on Reader Inquiry Card

Nutrient pellets feed container stock

Controlled release plant nutrition in the form of egg-shaped pellets might be a valuable tool for nurserymen in keeping container stock healthy and vigorous for long periods of time. One company, Estech, Inc., will soon introduce a 6-gram "briquette" to complement its established 16-gram Woodace pellet.

Research conducted at the Burden Research Center, near Baton Rouge. LA-by Director Dr. Warren Meadows and Don Fuller, a research associate. suggests smaller packaged briquette formulations could have advantages nurserymen might want to consider. But are they effective?

Yes, say the researchers.

Nurserymen who use fertilizer briquettes correctly can maintain the vigor of stock long after it is moved into wholesale channels and even several months beyond.

The root system of the containerized plant surrounds the briquettes, and the matrix—the coating which surrounds the actual plant food-maintains a desirable rate of release for use by the plant.

The Woodace briquettes contain IBDU as the source of nitrogen. IBDU is known for slow release by soil hydrolysis; the product does not require soil bacterial action to release.

High temperatures do not appreciably increase the rate of nitrogen release and cold weather slows release only slightly and where needed. Plants have the opportunity to harden off.

The researchers note the smallersized pellets provide more surface area (in relation to their size) and a



New 6-gram briquettes.

higher release pattern.

And they are handy. Application using a dibble is made only once during the growing season.

Error is minimized because workers are given a number of briquettes to add to each container—as opposed to having to measure a specific amount. Also, no topdressing is needed as is common, usually on a monthly basis.

Also, briquettes are not subject to leaching. Container plants normally get 1/2 inch of water daily and a quick release nitrogen will readily leach, with loss to the owner.

Although the studies concentrated on the use of briquette plant nutrition for container stock in 1 and 3-gallon containers, preliminary trials indicate excellent potential for the 5, 10, 20, 30, and 50 gallon containers also. The research center recently began formal studies on these larger sizes. Greater periods of control release plant feeding may be possible.

"I think their (briquettes) potential is going to be in the larger containers because of the long release factor.' says research associate Fuller. "There might be some potential in using the briquettes on outside landscape material also.'

But Fuller feels acceptance of the briquettes will ultimately be determined by commercial cost effectiveness.

Researchers feel they can take most any fertilizer material on the market today and adapt it to use on woody ornamentals. But each material has a prescribed use determining both amount and frequency of application. A grower finds what best fits his own operation.

Nurserymen may be using more of the controlled release, briquette form of nutrition to provide healthy and attractive stock months beyond the nursery itself, a better situation for grower and dealer. Fuller says it's not uncommon for retailers to get plants and not know how to handle them until they show symptoms of being nutritionally starved.



No need to own, load, haul and use plows, discs, rotary tillers, blades, drags or harrows to do the job.

Just one implement, the Roseman Tiller-Rake does the complete job quickly, efficiently and perfectly. Adjust pitch control wheel to scarify hardest ground, to till, pulverize, grade spread and finish-

From rough construction sites to perfect seedbeds at tremendous savings in time, labor, equipment and cost.

Thousands of satisfied users. Order yours today.

312-864-1842

Plathe "CLEAN SWEEP" **TURF SWEEPERS** MODEL 54 HIGH LIFT LARGE AREA SWEEPER SWEEPS A 5 FT. SWATH AND COLLECTS 3 CUBIC YARDS OF LEAVES, GRASS AND DEBRIS. P.T.O. and Tow Type Available MAKE A "CLEAN SWEEP" in '85 with an Olathe Sweeper OLATHE MANUFACTURING, INC.

Circle No. 143 on Reader Inquiry Card



to deliver your order complete 99.6% of the time!

Fact: we manufacture and stock the largest inventory, so virtually all orders are shipped complete! Over 40,000 distributors and dealers worldwide depend on us to keep their shelves full. The fact is, no other company can make that statement and back it up with service. And new this year, the Atom Electronic Ignition, and chain saw replacement parts. Plus many new additions to our lawnmower line. Depend on us to be your one source for quality, service... and profit all year long!

Write for free 130 page catalog today!

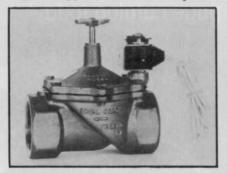
POWER LAWNMOWER PARTS, INC. 1920 Lyell Avenue Dept. 80-A P.O. Box 60860 Lyell Station Rochester, New York 14606 USA Phone 716/458-0800 ● Telex 97-8398 Distributor/Dealer inquiries invited Circle No. 149 on Reader Inquiry Card

PRODUCTS

Buckner brass valve contamination resistant

The Series 20930 brass valve from Buckner Irrigation is available from ¾-inch through two-inch NPT size. The contamination-resistant valve features a unique three-way operating solenoid, eliminating the need for continuous flow through the upper diaphragm chamber, reducing the opportunity to clog.

The Series 20930 can be used in low-flow drip irrigation and other large turf applications where depend-



ability is a necessity.

Circle 190 on Reader Inquiry Card

Salsco introduces new greens/tees aerifier

Salsco, manufacturer of core aerators for the lawn care industry and seeding-fertilizing units, now makes the Model 30-12 greens & tees aerifier.

Sealed roller bearings and oil impregnated bushings are standard on this unit which turns in a 40-inch radius and can be disassembled in 45 minutes. Salsco says the Model 30-12



covers over 13,000 square feet per hour, has a minimum penetration depth of 2-3/4 inches and a hole pattern of $2-1/4 \times 2-3/4$ inches.

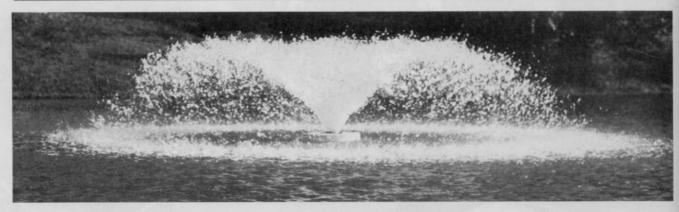
Circle No.191 on Reader Inquiry Card

Simplicity offers new cart/grass collector

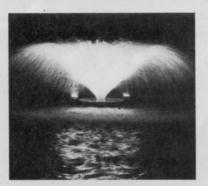
The new Cart Collector by Simplicity features a 10-bushel capacity. It's a steel, dual-purpose cart, adaptable for simple hauling chores, and also a 10-bushel capacity grass collector.

Simplicity says the Cart Collector





OTTERBINE DAY OR NIGHT...SUMMER OR WINTER



OTTERBINE® Aerators can help you keep unsightly algal growth and objectional odors under control naturally. The fact that OTTERBINES also create beauty—is just one of the many benefits of using our Spray Sculpture™ Floating Fountains.

WE CREATE BEAUTY WHILE SOLVING PROBLEMS

BAREBO, INC. P.O. BOX 217 • EMMAUS, PA 18049 (215) 965-6018 USA

Circle No. 105 on Reader Inquiry Card