

is removed from the tank, the valve closes and seals.

Circle No. 193 on Reader Inquiry Card

Snowblower line fits commercial, home needs

Kubota Tractor Corp. has expanded its line of snowblowers to include the G2500, the G2505, the B2551 and the B/L2563. All are designed to fit Kubota compact tractors in both its



home and commercial categories. These models are built for big jobs, such as road clearing, parking lots and driveways.

The G2500/G2505 front-mount snowblowers for Kubota's G-Series lawn and garden tractors are available in 38-inch and 48-inch widths, with a manual or hydraulic lift. A manual chute rotator allows for side-to-side and downward direction control.

The front or rear mount B2551 snowblower has a 51-inch cutting width and fits tractors from Kubota's B-Series line for lawn, garden nursery and vineyard use. This blower features a 14-inch diameter auger and a high speed blower.

Circle No. 194 on Reader Inquiry Card

Sweeper cleans large turf areas, can dethatch

A Jacobsen 720 sweeper is designed for cleaning large turf areas.

The unit cleans a five-foot wide path, and comes with a five cubic-yard hopper.

The sweeper has a rubber fingers pick-up system, to remove wet and



dry leaves, branches, clippings, pine needles, trash and other debris.

An optional thatcher-thinner de-

thatches turf as it's cleaned.

Galvanized steel construction makes the sweeper box virtually maintenance-free.

Circle No. 195 on Reader Inquiry Card

Turf products packaged in durable material

As the need and market for environmentally sound products continues, Ringer Corp. has improved the packaging for its line of natural professional turf and landscape products.

The new Ringer bags are made with a more durable material that's better stitched to withstand the demands of commercial applications.

The bags are also printed with a lower dye content and the directions have been simplified.

The new packaging can be found on Ringer's comprehensive line of natural commercial products, including Flower & Foliage, Greens Super, Greens and Turf.

The products are formulated for a wide variety of granular applications for golf course, general turf and horticulture uses.



Circle No. 196 on Reader Inquiry Card

New company makes lawn hydroseeders

Signature Lawns of San Mateo, Calif., is new to the hydroseeder industry. It



markets the Techni-seeder.

"As competitive as the landscape business is, I'm amazed at the amount of money a contractor can make with a Techni-seeder," says company president Daniel Munier.

The Techni-seeder is a state-of-the-art hydroseeder which boasts the most convenient, effective and profitable means for establishing residential and small to mid-size commercial lawns.

The unit is a low maintenance, one-man operation. Features include self-cleaning pump and hose.

Circle No. 197 on Reader Inquiry Card

New perennial ryegrass a very tolerant plant

Accolade is the newest exclusive Scotts brand seed variety.

Accolade's most notable features are good winter color, early spring greening, good drought and cold tolerance and good seedling vigor.

Accolade also has a high endophyte level, which results in excellent tolerance to a wide number of surface-feeding insects. Scott's Professional Business Group believes that these characteristics make Accolade a welcome component in any mix requiring perennial ryegrass.

Circle No. 202 on Reader Inquiry Card

Controlled release tablets contain major nutrients

Sierra Controlled Release Fertilizer Tablets are bonded pre-measured amounts of Sierra Controlled Release Fertilizer which continuously release major and minor nutrients from every single prill.

With an N-P-K analysis of 16-8-12, these 7.5 gram tablets have an 8- to 9-month longevity at 70° average soil temperature.

Sierra tablets provide a combination of Osmocote coating to N-P-K and Micromax micronutrient technology. The two are combined in an even more convenient, dependable single application form.

Circle No. 198 on Reader Inquiry Card

Four proprietary varieties released by research co.

Seed Research of Oregon announces the release of four high quality, proprietary turfgrass varieties.

SR 4200 is "the next generation in dwarf-type perennial ryegrasses," and is a leafy, fine-textured grass with high tillering ability and bright, dark green color.

SR 5000 chewings fescue was bred for a dark green color, high quality appearance and improved summer performance.

SR 8200 is Seed Research's newest tall fescue. The slower growth rate will reduce mowing requirements throughout the growing season.

SR 2000 Kentucky bluegrass is a low growing bluegrass with a dark green color, developed to have mod-

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Circle No. 101 on Reader Inquiry Card

erately wide leaves so it can be readily mixed with fine-textured tall fescue varieties.

Circle No. 199 on Reader Inquiry Card

New way to protect, store fertilizer bags

Arrowhead Plastic Engineering, Inc. of Muncie, Ind., introduces the "Dri-box."

The Dri-box is designed to store and protect dry bags of fertilizer on open-bed trucks.

Molded from durable, corrosion-resistant polyolefin material, the Dri-box features a continuous seal for weather resistant storage and transport. Manufactured with stainless steel hinge, latch and hardware.

The unique clam shell design and gas cylinders allow for easy access for loading and unloading dry bags of fertilizer. The padlockable latch prevents unauthorized access to tools or chemicals.

Arrowhead says the Dri-box also provides a safe, convenient method of storing empty bags until they can be disposed of properly.



Circle No. 200 on Reader Inquiry Card

New turfgrass varieties resist disease better

Crew-Cut dwarf-type tall fescue and Vantage perennial ryegrass are new turfgrass releases from Proprietary Seeds, Inc.

Vantage is described as an improved turf-type perennial ryegrass that demonstrates resistance to a broad spectrum of diseases, but is exceptionally resistant to stem rust.

Proprietary Seeds reports that seed yields are also improved, which means there will be a reliable supply, competitively priced.

Crew-Cut shows a dramatic reduction in vertical growth rate, along with narrower leaves, increased density and upright growth habit.

Crew-Cut will be an excellent option for Kentucky bluegrass and perennial ryegrass users that demand outstanding aesthetic qualities but want the reduced maintenance characteristics of turf-type tall fescue.

Circle No. 201 on Reader Inquiry Card



Fine Fescue Defined

What are Fine Fescues and why are they so important to turf managers?

Our Fescue turfgrasses are part of most every park, golf course, industrial campus, athletic field, condominium commons and home lawn from the transition zone, Northward.

But, many people are not aware of that. Perhaps we are the most overlooked turfgrass in existence.

We feel that Fine Fescues are the best turf investment a grounds manager can make. And, we'd like to point out *why*.

Fine Fescues are *real* grass. And, as with all living things, there is give and take. Sure, our Fescues take water and some maintenance, but they are better *givers*. Our natural grass turns noxious gases into oxygen and is a natural air conditioner for turf users.

We feel that while artificial turf has its place on locker room floors, it has no business where *real* people work, play and relax. Our grass is just *naturally* more refreshing.

Our Chewings (*Festuca rubra commutata*) and creeping red (*Festuca rubra rubra*) Fescues are rather unique when compared with other turfgrass species. Although they have most of the features of other cool season grasses, Fescues have several distinct benefits worth noting.

Fine Fescues are low maintenance. Our varieties require less fertilizer and water than other species. That's a big *plus* at today's water, fertilizer and manpower prices.

Fine Fescues fare well around trees. It seems our grass doesn't need as much sunlight, water and nutrients as other turfgrass species. Because Fescues don't compete with trees for these important elements, they're called *shade grass*. Our Fescues don't creep into flower beds, nor crowd out other species in a mixture.

And, because they're Oregon grown, our Fescues germinate, adapt and perform better than imported types.

You'd expect to pay a fortune for such a turfgrass, but Fescues are quite reasonable

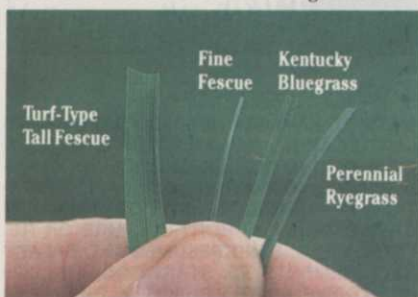
Why don't Fescues cost a great deal? Fine Fescues have been around a long time and

have been changed very little. Why mess with a good thing? While other former "pasture" species are coming closer to looking like our old standard; receiving notoriety for their "improvements" and enjoy the price increases associated with the word "new," our Fescues have continued what they do best . . . support the up-and-comers. But then, Fine Fescues were meant to be stepped on.

Fine Fescues are Ideal for Recreation, Sports and Leisure

Not only do Fine Fescues excel alone or in perennial ryegrass/Kentucky bluegrass mixtures on horizontal playing surfaces; Fescues are excellent for low maintenance areas like berms, roadside banks, ski slopes and hilly spots that don't retain moisture. So, you see, Fescues are ideal all-around grasses for *all around* your recreation and sports facility. Their low maintenance requirements offer *turf managers* a chance for a little more leisure . . . and there's nothing wrong with that.

For a series of nine tech sheets on Oregon grown Chewings and creeping red Fescues, call or write:



Oregon Fine Fescue Commission

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RATES: \$1.20 per word (minimum charge, \$35). Bold face words or words in all capital letters charged at \$1.45 per word. Boxed or display ads: \$100 per column inch-1x (one inch minimum); \$95-3x; \$90-6x; \$85-9x; \$80-12x. (Frequencies based on a calendar year). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$15 to total cost of ad. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9505. Fax Number 218-723-9615.

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PROBLEM MANAGEMENT

by Balakrishna Rao, Ph.D.

Recovering from construction

Problem: We have some large maple trees damaged by recent road and sidewalk installation. How can we help the trees to recover from this construction damage? Would you recommend drop crotch or thinning out type of pruning to help them? (North Carolina).

Solution: Generally, correcting construction damage after it is done is difficult, expensive and usually not as successful as pre-construction care. Since you are dealing with already damaged trees, provide a maintenance program including proper fertilizing, watering and pruning. Since the trees are already under severe stress, use fertilizers containing a slow-release, low-burn source of nitrogen. Maintain good moisture content in the soil by proper watering as needed. Deep root watering is preferred.

Any damage to the root system will be reflected in a thinning or dying of the canopy.

Plants affected by construction damage need some pruning to maintain the root-to-shoot ratio. If it is not done plants tend to show dieback like a "self-pruning process." Since we don't know where and how much root is damaged, a light thinning of smaller branches would be beneficial. Remove (thin) the branches which show dieback every year. Schedule to provide a light pruning program for 4-5 years.

Drop crotching or other pruning involving the removal of larger branches is not recommended unless the shape of the tree needs to be maintained. Study the tree's crown and remove any large dead or rubbing branches and maintain the shape. Consider aerifying the area within the dripline to help minimize compaction and fill damage. Drill holes beyond the hard pan, three feet apart, using an auger, and fill it with pea gravel. Use straw to cover the gravel surface and fill the rest of the hole with top soil.

In general, the most successful way to save desirable trees from construction damage is to start proper care and treatment before the actual construction begins.

Transplanting and 'oak wilt'

Problem: My question concerns "oak wilt" and the correlation, if any, to transplanting. Specifically, I must plant a certain quantity of burr, white, and red oak by May 10 to prevent the onset of this problem. This was related to me by a state forester regarding a project of ours. Is there a correlation between planting date and "oak wilt"? What is the suggested treatment and preventive measures, if any? (Wisconsin)

Solution: I am not familiar with any documented publications or reports suggesting there is a correlation between planting date and oak wilt disease. Verify the source of state foresters' recommendations for planting burr, white, and red oak by May 10 to prevent the onset of oak wilt.

Although not documented or personally observed, I speculate the following reasons concerning the above recommendation:

1. Plants, particularly oak, with extensive deeper tap root systems, may have a problem of establishing when transplanted after May 10. During the digging and transplanting process, a considerable amount of root injury and loss can occur which affects their recovery and establishment.

2. This transplant shock and slow root development after transplanting may be further aggravated by low moisture content in soil during May, June and later on. This exposes plants to cultural and environmental stress.

3. These stress factors predispose plants to different insect and/or disease problems. If there is an oak wilt affected tree within 40 ft. of newly transplanted oaks, it may get the disease through root graft transmission. However, I am not sure whether younger trees are more or less susceptible to the disease.

4. If there were any open wounds or bark injury during planting, it may attract oak bark beetles (*Scolytidae*) and sap beetles (*Nitidulidae*), which are the vectors for spreading oak wilt. This is the reason arborists try to avoid pruning oaks during May and June periods.

As far as "suggested treatment," if it is scientifically proven that there is a correlation between transplanting and oak wilt disease spread, then plant oaks at the recommended time.

As far as prevention, the following guidelines might be helpful:

1. If oak wilt is detected, remove the tree promptly.

2. Healthy trees within 40 ft. of diseased trees should be protected from root graft transmission mechanically by trenching or chemically by Vapam treatment of soil 18 inches deep in a line 40 ft. away from the diseased tree. Generally, wait 10 to 12 days after Vapam treatment to remove the diseased trees. Avoid root graft transmission of newly transplanted trees.

3. Avoid pruning or wounding around May and June.

4. Provide an insect management program.

5. Provide good plant health care programs to improve plant vitality.



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Questions should be mailed to Problem Management, LANDSCAPE MANAGEMENT, 7500 Old Oak Boulevard, Cleveland, OH 44130. Please allow 2-3 months for an answer to appear in the magazine.

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