

# A lot of things can happen in seven years—but Poa annua in my PennLinks is not one of them.

"For one, I was a younger man when I was grow-in superintendent at the OGA Members Course at Tukwila. Now, I'm married, have two dogs, a cast on my foot, our course has a beautiful new clubhouse, and we've had more than 300,000 rounds played on our PennLinks greens since we opened in August, 1994.

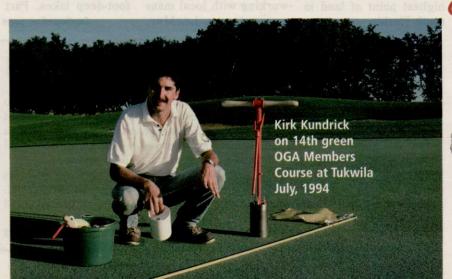
Our crew has managed to control *Poa annua* in our greens even though our public course is surrounded with hazelnut orchards where annual bluegrass thrives under the canopy of trees. To start with, PennLinks is a strong variety with good recovery from daily scars and wounds. When managed consistently with a balanced fertility program, and by aerifying in late May and mid-September—after *Poa annua* backs off the seeding stage—we can keep the nuisance grass in check. We've observed that alternative spikes don't disturb the putting surface, thus providing and ideal seedbed like steel spikes will. When *Poa annua* does occur in our greens, crew members

remove the individual plants with tools we've adapted for the job; like a sharpened screwdriver, weed cutter, and a plugger for stubborn plants. Collars are the buffer between the surrounds and the greens, and have some *Poa annua* growing in them. I plan to re-sod the collars this year to start afresh and stop the threat of encroachment.

We're open year 'round, and have consistently posted more than 44,000 rounds per year for the last seven years. Our PennLinks greens are cut at 0.110 to 0.115" in the summer, and raised to 0.135" in the winter. We strive to maintain country club standards with less than a country club budget.

I may not look as young as I did seven years ago, but our PennLinks greens do. Now if I could get rid of this cast and control those geese, all would be well."

Kirk Kundrick CGCS, Supt.



# PennLinks Special!

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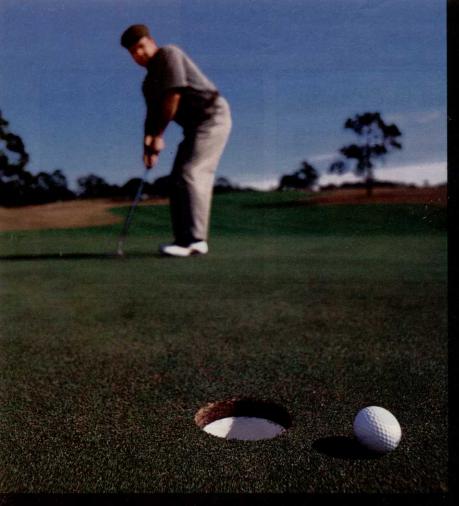
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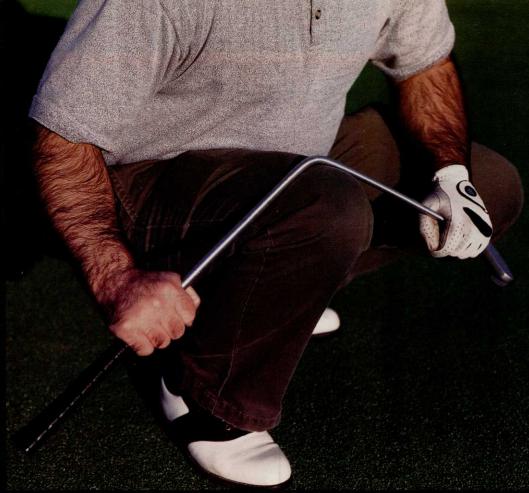
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There are thousands of reasons golfers miss putts. (One less if you use Greens Grade.)

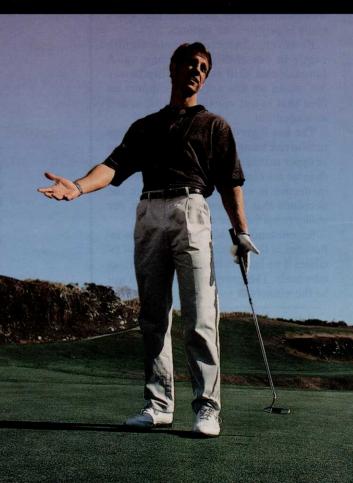


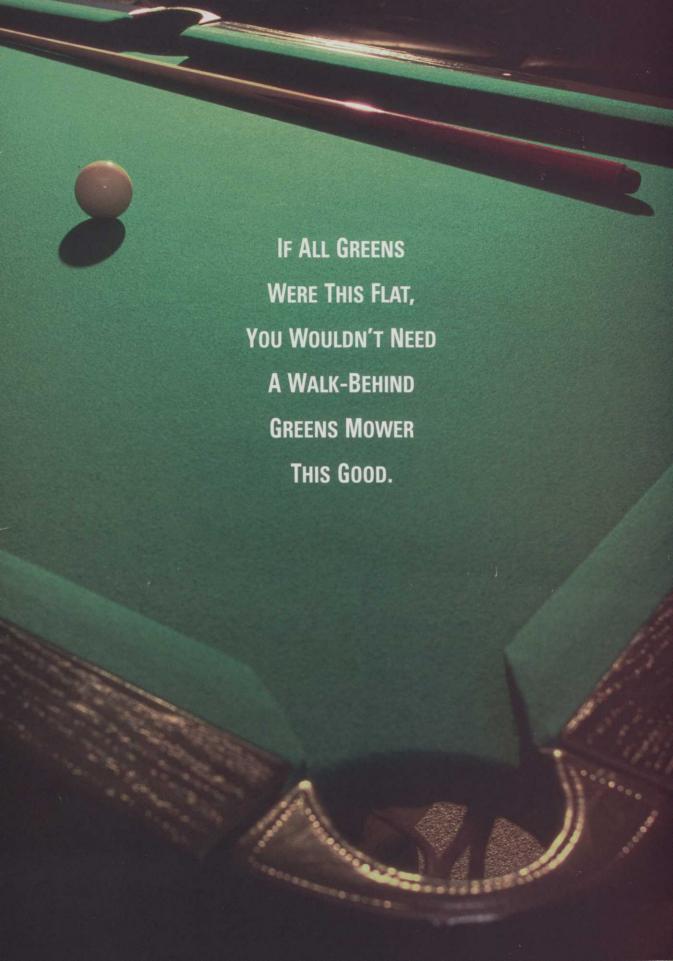
Milorganite Greens Grade offers all the benefits of an organic fertilizer – a nonburning formula with slow-release nitrogen – only in smaller particles. Which means it won't disrupt putts after it's applied. It settles into the turf canopy virtually unnoticed.

But the results won't be. As for three or four putts? Who or what is blamed is anyone's guess. But it certainly won't be the fertilizer. For more details, visit milorganite.com or call 1-800-287-9645.









# INTRODUCING THE NEW JOHN DEERE B-SERIES WALK-BEHIND MOWERS. THE MORE WEIGHT WE TOOK OFF, THE MORE FEATURES WE PUT ON.

260B

MI

Improved design between handlebar and safety bail reduces bail "flopping" during transport.

Larger diameter tubing on handlebar for increased strength.

We decreased the distance between the safety bail and handlebar for improved performance.

Quick adjust handlebar fits operators of all sizes.

Forward mounting pivot point reduces operator influence over cutting plane of the mower.

New high impact resistant polymer chain covers are rust and dent proof and significantly reduce noise.

New drum drives have a more efficient design, requiring less maintenance.

True 18, 22, and 26 inch frames, allowing the operator to follow cut lines and overlap with more accuracy.

New oil drain funnel allows for quick and neat oil changes.

Larger muffler reduces noise.

Optional transport wheels are easier to remove and install.

New hand adjustment knobs allow for easy and fine adjustment of bedknife-to-reel. And less noise.

New grass catcher design improves grass catching ability, operator vision, and improved cut line marking.



Official Golf Course Equipment Supplier



Our new (and true)18-, 22-, and 26-inch walk-behind greensmowers have two things going for them: They are the lightest greens mowers made today. And they are the best. A simple scale told us the first statement was true. And 16,000 hours of testing proved the second one. Now here's why they'll win you and your operators over as well:

- We improved the handlebar design. All operators are not the same.
   We realize that. And that's why we installed a handlebar height adjustment to fit every operator. We also put in a forward mounting pivot point to minimize the effect of the operator over the cutting plane of the mower.
- We made them quieter. Our new walks feature a smaller pitched chain and new chain adjusters, which decrease noise significantly.
   A larger muffler, along with new high impact resistant polymer chain covers, also put the damper on sound levels.
- We made a better grass catcher. Not only does this one do a better
  job of collecting clippings, it also gives your operator a better visual
  of the mowing path. And it improves the cut line marker for less overlap
  and fewer misses.
- We made them easier to adjust and service. The new bedknife-to-reel knobs allow for easy adjusting. And a new oil drain funnel makes changing oil quick and neat.

We did all of this and more to ensure one thing: to give you and your operators a cut pattern that is straight and superior. We can talk all day about these mowers. But what we really want to do is demonstrate their performance in person. For a demo, please call your local John Deere Golf & Turf Distributor. Or dial toll-free 1-800-537-8233.



260B



220B



180B

#### **SPECIFICATIONS**



180B

260B

220B

#### Engine:

Type Cycle

Bore and Stroke Piston Displacement Compression Ratio Compression Pressure

**Direction of Rotation of Output Shaft** 

Inclination Limit

Maximum Output

Idle-Speed at Output Shaft Maximum Speed at Output Shaft Transport Tires (quick detachable):

Tread Width (width of mower with tires)
Tires
Pressure (standard pneumatic)

**Transport Brake** 

**Cutting Equipment:** 

Cutting Width
Cutting Height (Minimum):
Standard 3.0 mm Bedknife
Optional 2.5 mm Bedknife
Optional 2.0 mm Bedknife
Optional Tee Bedknife
Cutting Height (Maximum)

Frequency of Clip:

Standard Optional Reel:

Diameter Number of Blades Material

Bedknife - STANDARD

Grass Catcher Clutches:

> Transport Reel Jaw-Type Clutch Brush

Traction Drum
Traveling Device:
Forward Speed\*

Roller (Rear) Roller (Front)

Dimensions

Length (w/Tires Installed) Width (w/Tires Installed) Height (w/Tires Installed) Weight (Less Brush Drive,

Transport Wheels and Grass Catcher)

Honda, Air cooled GX120

4 2.36-1.73 in. (60 mm x 44 mm) 7.2 cu. in. (118 cm<sup>3</sup>) 8.5:1

43 psi (3 kg/cm) minimum 4.0 hp (2.8 kW) @ 3,900 rpm Counterclockwise viewed from shaft

Tilted up to 20 degrees in any direction 1300 rpm

33.3 in. (84.6 cm) 4.1-6, 2 PR tubless 18 to 20 psi (125 to 140 kPa) (0.3 to 0.4 bar) Band-type brake,

lever activation 18 in. (45.7 cm)

3500 rpm

1/8 in. (3.2 mm) (optional on 180B) 3/32 in. (2.5 mm) (standard on 180B) 5/64 in. (2.0 mm) NA

7/8 in. (22.2 mm) 0.195 in. (5 mm)

0.155 in. (3.9 mm) 5 in. (127 mm)

Heat-treated chromium molydenum steel 0.118 in. (3 mm) thick x 18 in. (45.8 cm) long Approx. 6 lb. (2.7 kg)

Belt tension On/Off

Gear engagement disconnecting Dual aluminum traction

5.2 mph (8.4 km/h) with transport wheels at 3500 enginerpm Aluminum, 7 1/2 in. (190 mm) diameter Machined steel, 2 3/8 in. (60 mm) diameter (for cutting height adjustment)

37 in. (94.0 cm) 33 1/4 in. (84.5 cm) 47 in. (119.0 cm)

203 lb. (92.3 kg)

Honda, Air cooled GX120

2.36-1.73 in. (60 mm x 44 mm) 7.2 cu. in. (118 cm<sup>3</sup>)

8.5:1

43 psi (3 kg/cm) minimum 4.0 hp (2.8 kW) @ 3,900 rpm Counterclockwise viewed

from shaft

Tilted up to 20 degrees in

any direction 1300 rpm 3500 rpm

41.3 in. (104.9 cm) 4.1-6, 2 PR tubless 18 to 20 psi (125 to 140 kPa) (0.3 to 0.4 bar) Band-type brake, lever activation

26 in. (66.0 cm)

1/8 in. (3.2 mm) NA

NA 3/16 in (4.8 mm) 7/8 in. (22.2 mm)

0.195 in. (5 mm) 0.155 in. (3.9 mm)

5 in. (127 mm)

Heat-treated chromium molydenum steel 0.118 in. (3 mm) thick x 26 in. (66.0 cm) long Approx. 8 lb. (3.7 kg)

Belt tension On/Off

Gear engagement disconnecting
Dual aluminum traction

5.2 mph (8.4 km/h) with transport wheels at 3500 engine rpm Aluminum, 7 1/2 in. (190 mm) diameter Machined steel, 2-3/8-in. (60 mm) diameter (for cutting height adjustment)

37 in. (94.0 cm) 41 1/4 in. (104.8 cm) 47 in. (119.0 cm)

235 lb. (106.8 kg)

Honda, Air cooled GX120

2.36-1.73 in. (60 mm x 44 mm) 7.2 cu. ir . (118 cm<sup>3</sup>)

8.5:1

43 psi (3 kg/cm) minimum 4.0 hp (2.8 kW) @ 3,900 rpm Counterclockwise viewed from shaft

Tilted up to 20 degrees in any direction

1300 rpm 3500 rpm

37.3 in. (94.6 cm) 4.1-6, 2 PR tubless 18 to 20 psi (125 to 140 kPa) (0.3 to 0.4 bar) Band-type brake, lever activation

22 in. (55.9 cm)

1/8 in. (3.2 mm) 3/32 in. (2.5 mm) 5/64 in. (2.0 mm) NA

7/8 in. (22.2 mm)

0.195 in. (5 mm) 0.155 in. (3.9 mm)

5 in. (127 mm) 11 Heat-treated chromium

molydenum steel 0.118 in. (3 mm) thick x 22 in. (56.0 cm) long Approx. 7 lb. (3.2 kg)

Belt tension
On/Off
Gear engagement disconnecting
Dual aluminum traction

5.2 mph (8.4 km/h) with transport wheels at 3500 engine rpm Aluminum, 7 1/2 in. (190 mm) diameter Machined steel, 2-3/8-in. (60 mm) diameter (for cutting height adjustment)

37 in. (94.0 cm) 37 1/4 in. (94.6 cm) 47 in. (119.0 cm)

219 lb. (99.5 kg)

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- DeLuxe hotel accommodations for two for 4 nights.
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The most advanced sand maintenance rakes made with special engineering features to give you perfect firmness and finish. The standard by which other rakes are judged.



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Our all-new, low-profile sprayers offer you exclusive hydrostatic drive and a remarkable level of sophistication at a surprisingly affordable price.



#### TEST DRIVE A Smithco Sweeper

These sweeper-vacuums hold up to 7-cubic yards of compacted debris. But the first thing you'll notice is how quiet they run thanks to a polycarbonate liner inside the fan housing.

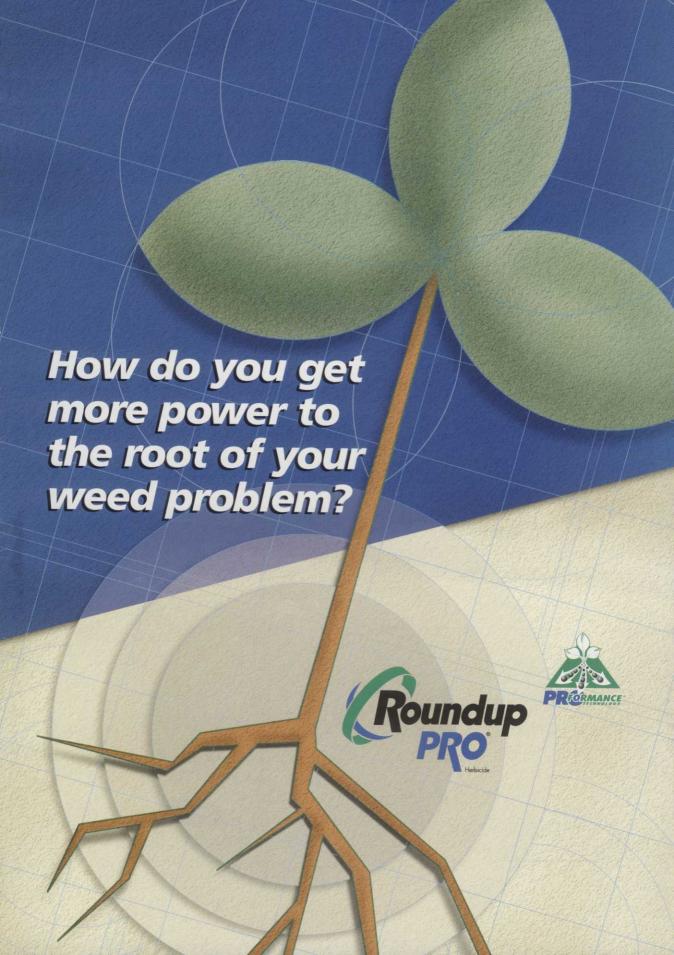
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GCSAA BOOTH # 1943



### The proof is in the leaf.'

Monsanto scientists used scanningelectron microscopy to photograph the effects of weeds sprayed with Roundup PRO and an imitator. Taken just one hour after application, these images clearly show more formulation in the leaf sprayed with Roundup PRO.

# Get Roundup PRO® herbicide with patented PROformance™ technology.

In the first two hours, it delivers three times more power to the roots than Syngenta's latest imitator product.



#### The proof is in the roots.

Scientists also used autoradiography to photograph and measure the amount of herbicide in the roots two hours after application. Time after time, at least three times more herbicide showed up in the weeds sprayed with Roundup PRO. With the imitator, barely any herbicide has moved to the roots.



#### Free video shows science in action.

See PROformance technology at work in a free, five-minute video. Scientists Dr. Tracey Reynolds and Dr. Jimmy Liu demonstrate the autoradiography and cryo-SEM techniques used to compare Roundup PRO with an imitator on two identical weeds.

Call 1-800-ROUNDUP and ask for your free Roundup PRO video today!

Always read and follow label directions. Test conducted with MON 77360, EPA Reg #524-475 with comparison to Syngenta product carrying EPA Reg, #10182-449. 1. Test methodology: In scanning-electron microscopy, Monsanto scientists identified penetrated formulations of both Roundup PRO and Touchdown Pro in the mesophyll cell layer. These micrographs support the evidence that formulations containing Monsanto's patented PROformance technology rapidly penetrate the leaf surface. 2. Test methodology: Radiolabeled formulations were applied at equal acid-equivalent rates. Radioactivity was visualized by autoradiography following a simulated rain event two hours after application. Monsanto laboratory tests, 2001. Roundup', Roundup PRO' and PROformance™ are trademarks of Monsanto Technology LLC. 12748 [ct 10/01.] ©2001 Monsanto Company RUPRO-12748.

# Water.



Our most precious natural resource becomes more expensive and less available every year.

Water is critical to your business – from the establishment and maintenance of healthy roots for uniform, vigorous turf to the distribution and effectiveness of soil-targeted chemicals and fertilizers.

Aquatrols offers you a proven, comprehensive line of water management tools that make sure water and chemicals reach and stay where they are needed most – the rootzone. And because you'll need to use less water, more of your profits stay where they belong, too.

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Isn't it time to take a closer look?







