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ON THE COVER: PELICAN HILL GOLF CLUB'S OCEAN COURSE NORTH, #18. THE COURSE IS ONE OF SIX HOSTING THE GCSAA TOURNAMENT. DONALD HOOS IS DIRECTOR OF AGRONOMY. PHOTO COURTESY PELICAN HILL.

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TERRY McIVER
Editor-in-Chief

sed to be you could hire just about anyone who walked in the door. They wanted to work. Period.
Now, it's all about references, criminal records and drug tests.
References are okay. It's the other two that, in another era, would cause an employer to shake his head and ask, What's happening here?
Rick Osewalt, director of business management for New England Business Service, Inc., Groton, Mass., says hiring just one unqualified employee can nearly destroy productivity, profitability and morale in a growing company. Those early days of the company are sensitive, and you can't be spending your time putting out employee fires when you need to be beating the bushes for customers. It's especially bad to lose good employees to a competitor.
"With each employee departure, you forfeit whatever you invested in training, and an amount of knowledge and information that even experts haven't dared calculate," says Osewalt.

Firing someone isn't as easy either, says Osewalt, thanks to increasing government and legislative involvement in labor and employment issues. So now, you must be prepared to possibly defend your decision in court.
Here's some tips from Osewalt on keeping disputes away from your office door:

1. Demonstrate a businesslike approach from a prospective employee's first involvement with your company, says Osewalt. Make the application simple to understand. Make job descriptions clear (and detailed), and avoid using words or expressions that denote a possible gender or age preference (salesman; Girl Friday; young).

2. Maintain complete and up-to-date records on each employee. Keep job performance files, and include notes on work record, changes in responsibilities or salary. Make note of warnings you issue, even if they are verbal warnings.

3. Keep the employees well-informed, especially when it comes to wages, overtime reporting and safety standards. Encourage open lines of communication. You can dodge many potential problems, says Osewalt, if employees feel they can talk openly about problems or concerns.
Employees aren't always looking for instant solutions to their work-related problems, but they do want to be listened to and taken seriously.
New England Business Service, a 45 year-old company, supplies small business products to more than a million customers, to help improve management, marketing and operation success. LM

How do metals bind with soil?
Dr. Lynn Katz, a visiting scientist in the University of Delaware plant and soil sciences department, focuses on the fate and transport of soil contaminants, with emphasis on metals.
"Soils treated with industrial wastes or sludge result in levels of metals, such as iron, uranium and chromium, which could contaminate groundwater," says Katz.
"By understanding how these metals are transported in the groundwater, we can develop applications to predict the process, thereby preventing the metals from migrating."
One key to this research is learning how metal ions are bound to soil materials.

New weed research at U.Fla.
Dr. Philip Busey, associate professor of environmental horticulture at the University of Florida, reports he is working on control of dollar weed in St. Augustinegrass through irrigation management.
"Dollar weed is essentially an aquatic plant," says Busey, and irrigation practices have long been a contributor to its growth. If you've got it, you can moderate it by backing off on the watering." Dr. Busey is also looking at timing of preemergent herbicides for goosegrass and crabgrass control in golf and athletic field turf.
Introducing the All-New John Deere 4100. 
Big-Tractor Features At a New Low Price.

There’s a new John Deere compact tractor out there and it brings you big-tractor performance for a surprisingly low price. Like its famous “big brothers,” the new 4100 has oil-cooled brakes that virtually never wear out. A differential lock that gets both rear wheels pulling in slick conditions. And shift-on-the-go front-wheel drive. You’ll never have to stop to get the traction you need.

The 4100 features a clean-burning, fast-starting diesel engine, kicking out 20 horsepower. Choose an economical 8x4 gear transmission, or get the clutchless, high-performance of an infinite-speed hydrostatic. Both transmissions bring you mid and rear PTOs. And the hydrostatic’s PTO is fully independent.

Thanks to John Deere hydraulics, the 4100 delivers effortless power steering, a responsive 3-point hitch, and fast loading with the available John Deere 410 Loader. Other attachments include mid- and rear-mount mower decks, front blade, power broom, snow thrower and Category 1 3-point-hitch tools.

See your John Deere dealer for more details. If you don’t know where one is, call us at 1-800-537-8233, or find us on the Web at www.deere.com.

*Manufacturer’s suggested introductory price for gear model (base equipment only). Price may vary by dealer. Setup charges, freight, taxes, and additional dealer charges (if any) are extra.

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Gypsum can reduce salt damage to trees, turf

We have a small snow removal operation. We use sodium chloride or calcium chloride-based products for deicing. I understand that gypsum can prevent or lessen the damage that these products cause to trees and turf. How is this possible? What products should we be using?

—NEW YORK

The most common deicing salt products are sodium chloride and, to a lesser degree, calcium chloride. You may find other products such as urea, rock salt, Safe-Step, magnesium chloride, potassium chloride, and Landscape Ice Melter. Their performance on snow and ice melting, and/or damage to nearby desirable plants varies.

The commonly used sodium chloride is toxic to plants in relatively low concentrations. Gypsum contains calcium sulfate and is effective in reducing the potential for sodium injury to plants. Gypsum must be applied before injury occurs.

Salt injury can occur either from foliar absorption, or absorption through the roots. If gypsum is present in the rootzone during the time when sodium salt is being applied, the calcium in gypsum prevents sodium from binding to soil particles. Since the sodium is not held in the soil, it can be leached beyond the rootzone with rains, melting snow, or irrigation.

However, if toxic levels of sodium remain in the rootzone, it causes phytotoxicity and tissue hydration. This is called physiological drought. Gypsum may not be helpful in minimizing salt damage to foliage if the salt is sprayed on the plant.

Apply gypsum before putting down sodium salts. This allows the gypsum to solubilize and release calcium. Surface application of 50 lbs. per 1,000 sq. ft. should be sufficient.

Gypsum won’t counteract the salt effect of calcium chloride. Although calcium chloride is not as harmful as sodium salt, too much can harm plants.

Tree roots need protection from construction

We’re working with a large developer at a construction site which was previously a wooded area. We want to protect the roots of the remaining trees, as well as to prevent any further soil erosion. Suggestions?

—MICHIGAN

There are no simple post-operation remedies!

The trees that you want to save should be fertilized well in advance of winter and prior to stresses caused by nearby construction. This will promote root growth. Protect the area within the dripline of the tree with a special fence. Try to keep heavy equipment off of this area.

If that’s not possible, consider covering them with soil and/or mulch. Mulch should not be more than three to four inches deep. Don’t pile mulch up on the tree trunk.

Valuable tree root systems may be further protected with some sort of thermal insulating product. Reports indicate variable results and it may not be practical in some situations.

To avoid winter erosion problems, it’s important to conduct construction operations with minimum land exposure. The bare ground should be revegetated to a temporary or permanent cover to avoid erosion. In some situations where no immediate development will be done, seeding with turfgrass, ground covers like crown vetch or clover might be beneficial for erosion control in slopes as well as in other areas.

If it’s too late for seeding, consider dormant seeding or mulching. If using mulch, make sure to use an additive to provide additional protection. Seeds should be properly covered with mulch such as straw, polymer-based products, or Penn-mulch. Erosion problems may be a major concern if there are mounds of soil or slopes at the construction site. Erosion control blankets and mats provide excellent protection on steep slopes. Some can be purchased with seed and fertilizer within the blanket or mat. LM
When it comes to season-long control of crabgrass, goosegrass, oxalis, spurge and many other troublesome weeds, PENDULUM® herbicide gets down to business. No other preemergent turf herbicide can match its spectrum of weeds controlled and cost-effectiveness. • PENDULUM brand Pendimethalin also offers greater flexibility than ever before, with a complete preemergent product line that includes sprayable formulations, combination fertilizer products and now a 2% granular formulation. • When you consider cash rebates available to you from American Cyanamid, it’s easy to see that PENDULUM really does mean business. Smart Business. • To learn more about the rebate offer or for the name of the PENDULUM distributor nearest you, call 1-800-545-9525, Ext. 931.

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