All signs point to a hassle-free clean-up season

Debris never falls where you want it. That’s the hassle. And that’s why it makes sense to have debris clean-up machines that can work anywhere. Machines like the John Deere 141, 151, and 161 Vacuum Sweepers.

All three work equally well on turf or pavement because they don’t have wear parts beating the ground. They use vacuum power.

A heavy-duty steel impeller is the key. It creates tremendous suction and can handle everything from leaves and clippings to cans and bottles—actually crushing and mulching the material before it goes into the hopper.

The 141 and 151 are engine-powered, so they can be used with any tractor 20 horsepower or above. The 141 clears a 4-foot swath while the 151 eats up 5 feet of debris on every pass.

The PTO-driven 161 also clears a 5-foot swath and requires a 40 horsepower tractor. And, like the 141 and 151, you can empty the hopper without leaving your seat.

Talk to your John Deere distributor today for more information. Or write John Deere, Dept. 956, Moline, IL 61265 for a free catalog on all of John Deere’s Golf and Turf Equipment.

John Deere vacuums work equally well on turf or pavement because they don’t have wear parts beating the ground.

John Deere blowers, like the 3-point hitch mounted 230, fit well into any clean-up operation.

Nothing Runs Like a Deere®

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16 VALHALLA GOLF CLUB: MANAGING BENTGRASS IN THE OHIO VALLEY

When the Gahm family of Louisville, KY, wanted to build a "world class" golf course in the Ohio Valley, they commissioned Jack Nicklaus to design it and selected bentgrass for the greens, tees, and fairways. The summer heat and humidity of the area was challenge enough for Superintendent Jon Scott to keep the bentgrass healthy, but two droughts in a row made it even more difficult. Fortunately, Scott's previous experience in the transition zone and the Deep South, in addition to his familiarity with Nicklaus courses, helped him escape near disaster as water ran short and a late July storm sent humidity through the roof. Scott and his crew worked 70 hour weeks for months to preserve the integrity of the course through precise fertilization, disease control and even hand watering where necessary.

28 OVERSEEDING WITHOUT WASTE

Even though nature was kind to seed producers in the Pacific Northwest this year, drought in other parts of the country and the growing popularity of perennial ryegrass for overseeding may cause shortages of some varieties this fall and next spring. Overseeding methods need to be evaluated to cut down on waste and increase germination. Not only does this impact seeding methods, it also requires greater uniformity and efficiency in irrigation systems, use of preventative fungicides, and careful maintenance after seeding.

35 MICROFERTIGATION: GREENER, HEALTHIER TURF A DROP AT A TIME

Grounds managers can control the growth rate of turf if they control the amount of nitrogen applied. Professor Tom Lubin shows that very small amounts of nitrogen can be applied to turf through irrigation systems by a process called microfertigation. This method prevents wide nitrogen swings which are caused by occasional, large granular applications. Light, consistent nitrogen feeding can also help soils that are not buffered and make phosphorus and micronutrients more available. Lubin suggests that microfertigation may conserve water, reduce salt buildup and lower the threat of nutrients contaminating ground water supplies.

LINE-UP

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COVER: The 18th hole at Valhalla Golf Club in Eastwood, KY.
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It may be a game to your customers, but to you it's serious business. Good looking turf means more customers, and more profits. That's why discriminating grounds managers look to Pennant perennial ryegrass. Whether it's a golf course, an athletic field or a turf track, Pennant performs like a true champion.

Across the country, Pennant's performance in turf trials speaks for itself. Pennant has rated best over other varieties of perennial ryegrass, including overseeding dormant Bermuda grass, extreme heat-drought stress, resistance to sod web worm, red thread and brown patch disease and winter injury. Pennant was also found to maintain its excellent turf color and quality late into the season.

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At the top of the line-up are safety-cushioned rubber covers, slip clutch protected drive systems, break resistant arc stops, locking caps and small exposed surface areas.
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St. Lucie County Sports Complex, Florida

The MVP Line-up (Left to right)
Model 1-10 Shrub,
Model 1-20 Pop-up,
Model 1-25, Model 1-40,
Model 1-42 High Speed and
Model 1-44 Sod Cup.
"Before, during and after the game, I rely on Parker sweepers."

George Toma, National Football League Natural and Artificial Turf Consultant and Chief Grounds Keeper for all 22 Super Bowls.

Parker offers a family of five Trailing Sweepers for a wide range of lawn care needs. Join top professionals who demand the best equipment at affordable prices, and choose Parker Trailing Sweepers for dependability and performance. Parker products are available at competitive prices through a nationwide distributor network.

*Parker Sweepers also work great on artificial turf.*
The other day I received a call from a golf course superintendent. His course was undergoing a major renovation and the installation of a new irrigation system. He was investigating various irrigation systems and wanted some input.

It used to be that golf course superintendents, sports field managers and the groundskeepers of various large turf areas paid very little attention to the irrigation system. Somehow irrigation seemed foreign to them. The job of repairing broken lines or replacing sprinkler heads was left to someone else on their staff. If a major problem occurred they would call in an "irrigation specialist."

Today this is no longer the case. The superintendent realizes that without water his green golf course turns brown...which turns off his members. The sports field manager understands that the paying customers who visit the ball park or stadium will not accept brown grass. Neither will his management; nor will the television networks.

Landscape begins and ends with irrigation. In other words, irrigation is the first thing to go into the ground after the ground is cleared, leveled and graded. Once the turf and landscape are installed, irrigation is the last thing to be turned on to water the plant materials.

We are all beginning to understand that irrigation is no longer a luxury but a necessity. What really brought this home was the great drought of 1988. It has made one heck of a statement about the need for irrigation. Those facilities that have irrigation systems enjoyed green turf this summer, while other facilities were left to dry in the sun.

With words like drought, water shortfalls and water restrictions ringing in their ears, golf course superintendents and professional groundskeepers now realize that they have to learn more about irrigation.

It is really not that difficult, and most irrigation manufacturers are happy to work with you. They will sit down and explain your system, how it works, its benefits, etc. With new "user-friendly" controllers on the market, irrigation is becoming easier to understand and use.

But I believe there is even more to it. I predict that, in the near future, we will be faced with more watering restrictions. It will be very difficult to explain to a community that has to live with brown grass around its homes how you can keep your own turf green while abiding by the restrictions. This is just one of many reasons why it will now be necessary to have a working knowledge of irrigation.

A number of water districts are mandating that we cut our water consumption, some by as much as 20 percent. Cutting back on the use of water can be achieved without damaging to the turf. Firstly, turf does better when it is watered deeply and infrequently. If watered too often, the turf has a tendency to develop shallow roots. We all know that grass with deeper roots is a healthier turf.

Our job is to maintain the turf, to keep it green and healthy. We use fertilizer to give it nutrients; we use chemicals to control disease, weeds and insects; and we should water in the same light. We will learn how to comply with water restrictions, as we learned how to comply with chemical controls.

The buzz word of the future will be "water management." Good water management will be as important a portion of your job as is knowledge of turf. This is where education comes into play. It is the educational seminars and trade shows that help us bridge the gap between the past, the present, and the future. We should never lose our desire to learn, because that would mark the beginning of the end of our careers.