

Tools&Equipment

pH, reduce sodium and release nutrients that are tied up and not available to the plant.

A soil test in most areas of the US will show phosphorus in the soil, but it may not be available for the plant. Phosphorus today is a very expensive and important nutrient, and all of the fertilizer salesmen want to sell you phosphorus, but why not just make it available, because it's free.

How do you increase the soil health?

It's simple and there are two simple steps to follow. First, stop killing all indigenous beneficial biology by using less chemicals and pesticides. The only biology in some sports fields are disease pathogens. It's like a hospital that is filled with disease.

When the soil is healthy with bio-diverse biology it will overpower and reduce disease pathogens. It's like putting border collies around your chicken house. They will prevent any coyote from getting close to the chicken. It is that symbiotic relationship that will build a barrier with the plants.

Plants that are strong and not in stress are succulent are disease and insect resistant. Healthy Plants have thick cell walls, which are resistant to fungus, and require less or no fungicides.

Feed the soil

Many companies offer products and programs that will improve your soil health.

You can add any number of organic products to your fertilizer and inject it through fertigation or you can simply spray apply it. There are humic liquid products which feed the indigenous soil biology or bio-inoculants to inoculate the soil with special beneficial biology, like micro Rizal bacteria. This bacteria is well known for creating a network web around the root system to release nutrients for the plant as well as promote dense root systems for the plant.

Turfgrass will turn over its entire root system every 2 or 3 years, leaving tons of dead roots in the soil waiting to decompose and rot into humates. A healthy soil will quickly convert dead roots into humic substances. A humic particle will attract and release ten times the water and nutrients as a clay particle. This will create tons of little sponges that will hold and release water and nutrients in your soil.

It will also keep the soil open to allow it to hold and pass water freely. Watch this video by Ray Archuleta with the USDA to learn more. http://www.youtube.com/watch?v=9_IteHCrLoQ . This shows how healthy soil will absorb and hold water better.

Sodium

Sodium is a problem in many areas of the west and can build up in the soil. This is a big problem when the irrigation water has 100ppm to over 500ppm of sodium. The more the fields are irrigated the sodium keeps building up and the grass keeps dying.

The solution is in the soil and water. A healthy soil will prevent sodium from being tied up in the soil. Humates and other organic products can be injected through irrigation to release and buffer sodium from the soil. Serious sodium problems need serious solutions, and the best product for that is Sodium Blocker a clear liquid that does a great job for water and soil with very high sodium. This is a proven product that can be sprayed or injected. The product uses proven technology and is done every day with great success.

These are real methods and real technologies that work, and will improve your sports field while reducing the maintenance costs by 20% to 60%. But more important, it can reduce your water use up to 50% with your existing control system, by improving the plant and soil health and just turning down your irrigation time. ■



Aeration equipment from Campey Imants

The Koro Recycling Dresser from Campey Imants, as the name suggests recycles the existing soils/root-zones and re-dresses the surface, helping to level the surface after play, and refresh the rootzone by decompressing and redistribution of material.

The Recycling Dresser is possibly the most effective aeration tool on the market that leaves the

surface in play. Amelioration of new materials into the existing soil structure is also possible.

The Imants Shockwave is the original linear aerator at its best with working depths between 3" to 14", working in compacted sports fields where most vertical aeration tools cannot. Protected by a torque limiting pto a huge aid to drainage and root development.

"The Shockwave is something I plan using many times year after year, its ease of use and small surface disruption is only a small part of the benefits I saw from it. I wasn't expecting the results I saw, it was hard to imagine something so simple could work so well in relieving compacted soil," says Chris Morrow, Field Supervisor for the Dallas Cowboys practice facility.

The Imants Rotoknife could be the fastest linear aerator working between 1" to 6". A series of discs slice the ground, decompressing and promoting a free draining surface and promoting root development or tilling a ground driven unit that works well in conjunction with other aeration methods. The surface is immediately playable after use.

Campey Turf Care Systems



3-stage walk-behind snow thrower

Cub Cadet's newest innovation will have you saying "bring it on" to even the most extreme winter forecasts. The new 3X, the flagship of Cub Cadet's X SERIES extreme line of

snow throwers, clears snow up to 50 percent faster than the 2X two-stage snow thrower. The 3X three-stage snow thrower easily cuts through 18 inches of heavy, wet snow. The patent-pending three-stage system works by first gathering snow, ice and slush and moving it toward the center. Then Cub Cadet's new high-volume accelerator cuts and chops through winter's worst, accelerating it into the high-performance discharge impeller, where it's thrown up and out of the high-impact chute. These three stages work together to move more snow faster while putting you in complete control of speed and maneuverability.

Cub Cadet

Tribute Total approved for use on zoysiagrass

Environmental Science, a division of Bayer CropScience LP, announced Tribute Total can be used on zoysiagrass. Tribute Total, a novel post-emergent herbicide, delivers broad spectrum control in one complete solution to turf managers selectively remove the most troublesome grassy and broadleaf weeds, sedges and kyllingas. Tribute Total helps you better manage your labor input by eliminating the need for multiple products. Approved for use on bermudagrass and now zoysiagrass, it is effective against 55 grassy and broadleaf weeds including dallisgrass, crabgrass, and yellow and purple nutsedge.

Bayer Environmental Science



Exmark 30-inch stand-on aerator

The Exmark 30-inch Stand-On Aerator delivers the productivity and durability professionals demand with a split-tine design to allow easier turning with tines engaged. The compact stand-on design heightens maneuverability in tight spaces while the 30-inch aeration width and 7.5-mph top speed deliver maximum productivity. Mass is centralized directly over the tines for maximum core depth consistency, and core depth is adjustable from 2- to 5-inches. The self-cleaning tines are easy-to-replace. Tine down-force is hydraulic-actuated and is easily adjusted by the operator. An electric-start Kawasaki® V-Twin powerplant delivers top-notch power, reliability and durability. The Exmark 30-inch Stand-On Aerator is covered by a one-year limited warranty.

Exmark Manufacturing



TurfEx MS4500 electric-powered topdresser

The TurfEx 1.4 cubic-yard capacity MS4500 topdresser features polyethylene construction, fully electric operation and precision spreading. It has the ability to spread standard topdressing sand for golf courses, crumb rubber for synthetic turf fields and a variety of other bulk materials including compost and soil conditioners. The MS4500's heavy-duty polyethylene construction eliminates the corrosion and maintenance concerns associated with similar steel built models, while also making the unit up to 40-percent lighter. Furthermore, it features large flotation tires and exerts only 18 psi when fully loaded, allowing safe operation on delicate surfaces such as golf greens. The lightweight construction also lessens fuel consumption for the towing vehicle.

TurfEx



Netafim multi-function hydrometers

Netafim USA now features multi-function hydrometers, water-saving devices that monitor irrigation flow rates and usage on commercial and institutional sites. The hydrometers provide visible, real-time data to help landscape managers evaluate water consumption on a daily basis. The versatile device features four functions: built-in master valve, water meter, flow sensor and pressure regulating valve. Hydrometers can be utilized in either dripline or overhead irrigation systems and are compatible with controllers from most major manufacturers. As more municipalities focus on water conservation, hydrometers have become practical tools in monitoring day-to-day water use. The product's globe-shaped master valve has a double chamber that provides positive openings and closings. It can function as a remote master valve for automated operation.

Netafim



Control up to 22 zones with ESP-SMTe controller

After Rain Bird introduced the ESP-SMT smart control system in 2009, the weather-based, 13-station controller quickly made a name for itself as a technologically-advanced, water-efficient way to schedule irrigation. Now, Rain Bird is introducing the ESP-SMTe—an enhanced version of the original ESP-SMT that features numerous enhancements and the ability to manage up to 22 zones. Like its predecessor, the ESP-SMTe consists of two key components, a controller chassis with an integrated smart panel and an on-site weather station that includes a temperature sensor with an integrated solar shield and a unique tipping rain bucket for instantaneous rainfall measurement. An intuitive on-screen wizard prompts users for site-specific and zone-specific information to create a customized, optimum irrigation schedule.

Rain Bird



Great Turf in less Time with the right Equipment



8 ft controlled swath

To 50 ft wide spread

The TurfTime Eq ADVANTAGE
Fast and Neat with a Light Footprint
Spread a Yard of Material in 20 seconds
All At a price that Make \$ENSE

www.TurfTimeEq.com 800-201-1031