Like the company's companion product, Panasea. Sand-Aid is produced from North Atlantic sea plants.

Panasea is a liquefied sea plant extract used primarily to strengthen root systems and improve stress tolerance in turfgrasses. Sand-Aid is a granular sea plant meal designed to be used as a soil conditioner to counteract compaction and also as a natural, organic constituent in topdressing mixtures to increase nutrient and moisture retention.

According to Emerald Isle's President, Bill Middleton, Sand-Aid is completely unique in that it improves both clay and sandy soils. It contains alginic acid (a polyelectrolyte). This natural carbohydrate, which makes up 26.7 percent of Sand-Aid's material analysis, creates an electrochemical attraction between fine particles in heavy clay soils, causing them to aggregate into a more friable, less compacted structure. In light sandy soils, on the other hand, where moisture and nutrient leaching can be a problem, Sand-Aid acts as an emulsifier, forming a highly desirable porous aggregate, greatly increasing nutrient retention and substantially reducing water losses.

Sand-Aid can be applied by itself or combined with gypsum to counteract soil compaction. For best results, it should be applied after aerification with a rotary or drop spreader.

Circle No. 178 on Reader Inquiry Card

Aliette receives federal registration

Aliette 80WP fungicide has received a federal registration for use on ornamentals to control Phytophthora root rot, according to the manufacturer, Rhone-Poulenc Inc., Agrochemical Division.

Aliette may be applied as a drench or soil incorporated. The product is unique in that it is has two-way systemic activity, showing both upward and downward translocation.

Aliette has been used worldwide for six years without developing a single case of resistant fungal strains.

Circle No. 179 on Reader Inquiry Card

Tree Spade handles 7-14-inch trunks

With eight narrow independent blades, the Stocker 'B' low-profile
Tree Spade digs through tough clay, root masses and dense frost with a high tree survival rate. The Stocker Sales Co. product also digs a round hole, which eliminates the need to align the spade when transplanting. Each blade is powered by a 2:1 gear rack drive driven by twin pistons. For each inch of piston travel a blade travels two inches, which eliminates the need for hydraulic towers that make transplanting near buildings and walls difficult.

Circle No. 180 on Reader Inquiry Card

No tank foaming with Foamtrine

If foaming in your spray tanks is a problem, a silicone-based emulsion called Foamtrine will eliminate it. The Allied Biochemists Inc. product alters surface tension and physical characteristics to prevent and eliminate foaming within a wide range of water qualities, pH and temperatures. The U.S.D.A. has recognized the product as safe in food and Foamtrine is also non-toxic to plants and animals. No visible residues will accumulate on treated foliage.

Circle No. 181 on Reader Inquiry Card

Montar for post-emergent control

Monteray Chemical Co. of Fresno CA has begun full-scale production of Montar herbicide for general post-emergent weed control. First introduced in 1958 as Phytar, Montar has been widely used in western states for controlling weeds on ditches, roadsides, sidewalks, driveways, fences near buildings and ornamentals and other non-crop areas. Montar mixes readily with water, is odor-free and is available in quart, gallon and five-gallon containers.

Circle No. 182 on Reader Inquiry Card

Whisper Chipper versatile tool

Asplundh’s Whisper Chipper is a self-feeding unit that easily transforms large branches by ten to one volume ratio for mulch and bedding chips. The chipper features four chrome-alloy steel blades locked in a cast steel rotor and an energy-storing flywheel to provide added torque for uninterrupted chipping. A unique operator guide attached to the feed table directs workmen to feed from the best places for loading brush into the chipper while an adjustable chute eases placement of chipped material.

Circle No. 183 on Reader Inquiry Card
WITH NEW SENSA-MATIC™ STEERING OUR 48-INCH INTERMEDIATE HANDLES LIKE A SPORTS CAR.

Our new Sensation 48-Inch Intermediate is designed with a highly responsive steering system so it steers as easy as a sports car. Just turn the steering handle to the left or right and a dual-independent braking system lets you effortlessly guide the Sensation around trees, rocks, posts and buildings.

Tight cornering is easy. With Sensa-Matic steering the 48-Inch Intermediate has an effective turning radius of zero. Essentially, it can turn on a dime.

GET THE WHOLE STORY ON SENSATION PERFORMANCE.

Along with the most advanced "handling system" in the industry, the Sensation 48-Inch Intermediate has other superior performance characteristics to help you cut grass faster and better.

With five forward speeds plus reverse you can adjust your ground speed while delivering optimum power and RPM's to the cutting blades. We've designed the Sensation 48-Inch Intermediate with maximum ground speed capability to let you mow quickly across wide open stretches and still get a smooth, uniform cut. It also operates smoothly at lower trimming speeds.

Our full floating deck provides a smooth, uniform cut and eliminates scalping. The unit also has an easy height adjustment.

Get the whole story on the Sensation 48-Inch Intermediate with Sensa-Matic steering. Clip the coupon today and send for our free four-color brochure.
Walker Mows Fast, Easy and Beautiful

A NEW BREED OF MID-SIZE MOWER DESIGNED FOR THE LAWN CARE PROFESSIONAL MOWING LANDSCAPED AREAS.

Mows Fast because tractor maneuvers quickly with dual hydrostatic ground drive and lever steering. Many Walker mower owners are reporting their job time is cut 1/3 to 1/2.

- Quick, easy maneuvering without gear shifting
- Zero turning radius steering

Mows Easy with only fingertip pressure required on control levers to steer and maneuver. Comfortable operator seating, excellent visibility and convenient control location reduces operator fatigue.

- 36 or 42-inch cut
- Front mounted deck for unobstructed trimming

Mows Beautiful because front mounted deck, flexible deck suspension and medium lift blades with center overlap provide smooth cutting action. The GHS vacuum thoroughly picks up grass clippings for a neat, clean appearance.

- Internal grass catching system
- Compact overall size for maneuverability

Walker Mfg. Co., 1839 E. Harmony Road, Fort Collins, CO 80525 • (303) 226-1514

Circle No. 162 on Reader Inquiry Card

Dobbins is the workhorse for the working pro.

If you need a day-in-day-out performer that'll handle all kinds of spraying jobs, get the workhorse. A Dobbins power sprayer. Every Dobbins is built smart and tough to help you cut any spraying job down to size.

- Professional design...adjustable nozzle, easy-fill tank.
- Heavy-duty...made with non-corrosive materials for years of reliable service.
- Complete line...from 8 gal. to 300 gal. capacities, skid mounted and trailer type models.

To put a Dobbins power sprayer to work for you, see your local power equipment dealer, call us collect, or write us for free catalog information.

Master Manufacturing Co. P.O. Box 694, Dept. WTT383 Sioux City, Iowa 51102 712/258-0108

Circle No. 130 on Reader Inquiry Card

EVENTS

MARCH

Arboriculture Meeting featuring Dr. Alex Shigo, March 2. Holiday Inn, Columbus, OH. Contact Alan D. Cook, executive director, Ohio Chapter, ISA, 7770 Jacksontown Road, SE, Newark, OH 43055.

ALCM Exposition, March 9 and 10. Sponsored by the Associated Landscape Contractors of Massachusetts and the Cooperative Extension Service of the University of Massachusetts at the Glen Ellen Country Club, Millis, MA. Contact ALCM, 1357 Washington St., West Newton, MA, 02165, (617) 964-0452.

California Certified Nurserymen Exam and Insect, Disease and Weed Exam, March 10. Quality Inn, Anaheim, CA. Contact CAN, 1419 21st St., Sacramento, CA 95814, (916) 448-2881.

California Certified Nurserymen Exam and Insect, Disease and Weed Exam, March 23. Oakland Hilton, Oakland, CA. Contact CAN, 1419 21st St., Sacramento, CA 95814, (916) 448-2881.

Canadian Turfgrass Conference and Show, March 11-14. Constellation Hotel, Toronto. Contact Mary Gurney, 698 Weston Road, Suite 32, Toronto, Ontario, M6N 3R3, (416) 767-2550.


74th Annual Mississippi Valley Conference of State Highway and Transportation Departments, March 21-24. Hyatt Regency Hotel, Milwaukee, WI. Contact Harvey Shebesta, district director, Wisconsin Department of Transportation, 310 South West Ave., PO Box 649, Waukesha, WI 53187, (414) 548-5681.

Ohio State University Cooperative Extension Service, March 24. "Planting: Balled & Burlapped, Containers, Materials" (Fred Buscher); "Common Diseases and Plant Physiology of Ornamentals" (Nick Stephin); "Common Insects of Ornamentals" (Charles Behnke). For more information, contact OSU Extension Service, (216) 631-1890.

To ensure that your event is included, please forward it, 90 days in advance, to: WEEDS TREES & TURF Events, 7500 Old Oak Boulevard, Cleveland, OH 44130.
IBDU® GIVES A CONSISTENT GREEN AS A MATTER OF COURSE.

Month after month, nothing performs like IBDU in creating beautifully green turf for lawns, tees, fairways and greens. IBDU releases nitrogen later in the fall, earlier in the spring and more consistently through the summer than any other nitrogen source. Due to its slow, even release pattern, IBDU builds rich turf growth without early flushes and excess clippings.

IBDU is available only in PAR EX® fertilizers. PAR EX products feature IBDU mixed in a variety of formulations designed to satisfy your turf and soil conditions.

Why not invest in a nitrogen source that promises you the greatest return? In efficiency. In fewer applications. In lower labor cost. Order the right PAR EX formulation from your distributor. And apply IBDU for a beautiful course, as a matter of course.

PAR EX and IBDU are more quality products of Estech, Inc., Professional Products Division, P.O. Box 1996, Winter Haven, Florida 33880.
What makes the Cushman Turf-Care System worth the investment:

Aerating, hauling, dumping, spraying, seeding, spreading and top dressing — one vehicle does the work of a fleet of machines.

The exclusive Cushman pin disconnect system lets you attach and remove accessories in minutes.

The economics behind your decision to invest in the Cushman Turf-Care System are hard to argue with:

Here is a single vehicle that can do the work of a half dozen machines, at a fraction of the cost.

Here is a complete set of turf-care accessories that can be attached or removed in minutes.

Here is a groundskeeping system that's so simple, and so well-crafted, your maintenance and repair time will become practically nonexistent.

Economics aside, though, there is an even stronger reason to invest in the Cushman System.

Results.

The Turf-Truckster™.

Powered by a rugged 18 hp air-cooled engine, the Cushman Turf-Truckster has the stamina to survive years of constant use.

A 3-speed syncromesh transmission, hydraulic brakes, heavy-duty suspension and a ¾-ton payload capacity are all standard. And you can choose between a 3-wheel or 4-wheel design.

By itself, the Turf-Truckster is the industry's state-of-the-art work vehicle. Base it up with any of the following accessories, and you have the makings of an efficient, economical turf-care system.

The aerators.

Because you have two types of turf to aerate, Cushman makes two aerator attachments for your Turf-Truckster.

The Greensaver® is ideal for greens and other delicate areas. Interchangeable aerating drums let you select the precise degree of aeration needed — ⅝" cores for fast-growth seasons, ⅝" cores for slow-growth months, and deep-slicing tines for summer hot spells.

For the rest of your grounds, simply attach the Quick Aerator to your Turf-Truckster. It offers the same choice in aeration tines as the Greensaver, but covers a wide 46" swath.

The dump boxes.

To haul fertilizer, dirt, sand and other supplies, choose our Short Box attachment. It handles 1500-lb. payloads, sits low to the ground for easy loading and can be hydraulically dumped right from the driver's seat.

But for maximum versatility, you may prefer our Flatbed/Box attachment. It does everything the Short Box does, but converts to a flatbed carrier just by removing the sides and tailgate.

The sprayer.

Turf pros swear by this as the finest spraying machine they've ever used. And it's no wonder when you consider all you get:

Uniform spraying controlled by your vehicle's ground speed governor; a PTO-operated centrifugal pump; and your choice of either a 100-gal. tank with a 15' rear boom, or our new 150-gal. tank with a 21' rear boom.

Plus, you can add a versatile handgun attachment for fogging bushes and spraying trees.

The spreader/seeder.

Mounted on either side of the two Cushman dump boxes, the Spreader/Seeder attachment actually outperforms units costing much more.

The spreading rate is regulated by your Turf-Truckster's ground speed governor. Even over irregular terrain, you get uniform spreading.

The corrosion-resistant hopper holds up to 300 pounds of material, and spreads it evenly across a swath up to 40 feet.

The top dresser.

Just 3 pins connect the Top Dresser to your Turf-Truckster chassis, and you're ready to top dress up to 220 feet per minute.

Everything from rock salt to powdered fertilizer can be uniformly spread across a 31½" swath.

A free demonstration.

Of course, the best way for you to learn about the Cushman Turf-Care System is to see it in action. On your grounds. To do that, just call us toll-free: 1-800-228-4444.
Do you have too much to read and too little time to read it? Do you mentally pronounce each word as you read? Do you frequently have to give back and re-read words or whole paragraphs you just finished reading? Do you have trouble concentrating? Do you quickly forget most of what you read?

If you answer 'yes' to any of these questions — then here at last is the practical help you've been waiting for. Whether you read for business or pleasure, school or college, you will build exceptional skills from this major breakthrough in effective reading, created by Dr. Russell Stauffer at the University of Delaware.

Not just "speed reading" — but speed reading-thinking-remembering-and-learning

The new Speed Learning Program shows you step-by-proven-step how to increase your reading skill and speed, so you read more, remember more and use more of everything you read. The typical remark made by the 75,000 slow readers who completed the Speed Learning Program was: "Why didn't someone teach me this a long time ago?" They were no longer held back by the lack of skills and poor reading habits. They could read almost as fast as they could think.

What makes Speed Learning so successful?

The new Speed Learning Program does not offer you a rehash of the usual eye-exercises, timing devices, costly gadgets you’ve probably heard about in connection with speed reading courses or even tried and found ineffective.

In just a few spare minutes a day of easy reading and exciting listening, you discover an entirely new way to read and think — a radical departure from any thing you have ever seen or heard about. Research shows that reading is 95% thinking and only 5% eye movement. Yet most of today’s speed reading programs spend their time teaching you rapid eye movement (5% of the problem) and ignore the most important part (95%) thinking. In brief, Speed Learning gives you what speed reading can’t.

Imagine the new freedom you’ll have when you learn how to dash through all types of reading material at least twice as fast as you do now, and with greater comprehension. Think of being able to get on top of the avalanche of newspapers, magazines and correspondence you have to read... finishing stimulating book and retaining facts and details more clearly and with greater accuracy than ever before.

Listen-and-learn at your own pace

This is a practical, easy-to-learn program that will work for you — no matter how slow a reader you think you are now. The Speed Learning Program is scientifically planned to get you started quickly... to help you in spare minutes a day. It brings you a "teacher-on-cassettes" who guides you, instructs, encourages you, explaining material as you read. Interesting items taken from Time Magazine, Business Week, Wall Street Journal, Family Circle, N.Y. Times and many others, make the program stimulating, easy and fun... and so much more effective.

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You will be thrilled at how quickly this new program will begin to develop new thinking and reading skills. After listening to just one cassette and reading the preface you will quickly see how you can achieve increases in both the speed at which you read and in the amount you understand and remember.

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Note: Many companies and government agencies have tuition assistance plans for employees providing full or partial payment for college credit programs. In most cases, the entire cost of your Speed Learning Program is Tax Deductible.
cate very well. Dormant tubers are not appreciably con-
trolled and may be the reason nutsedge control was not
satisfactory. Continue reapplying Basagran on actively
growing plants until all of the tubers are gone.

Elm phloem necrosis

Problem: I would like more information on phloem necro-
sis, the new disease attacking elms. (Illinois)

Solution: The origin of elm phloem necrosis is
unknown, but apparently it has been around since about
1882. Perhaps because of all the attention given to Dutch
elm disease, other diseases of elm have been overlooked or
forgotten. Rediscovery or more frequent mention of
phloem necrosis may stem from work being done using the
electron microscope.

The cause of phloem necrosis is something called a
mollicute or mycoplasma-type organism. Loosely speak-
ing, mollicutes are halfway between viruses and bacteria.
They are microscopic in size and require special equip-
ment to be seen. Phloem is a tissue found between the
outer bark and the wood. Necrosis is the death of tissue; in
this case, phloem. Healthy phloem is light-colored, usually
white or off white. The phloem in trees with phloem necro-
sis is yellow, butterscotch (tan) or brown. Necrotic phloem
is most evident near the base of the tree and has a win-
tergreen odor. Other symptoms include yellow leaves,
drooping foliage and leaf fall. The foliar symptoms are
similar to those of Dutch elm disease (DED) and for this
reason, cannot be relied on.

There is no known cure for phloem necrosis. It is known
that sucking insects called leafhoppers can carry the mol-
llicute from tree to tree. Sprays to control the white-banded
elm leafhopper have been recommended. The long-term
solution may lie in the use of resistant trees. Asian and
European species are less susceptible to phloem necrosis.

Painting over ivy not advised

Problem: One of our clients has exterior stucco walls rang-
ing from two to five stories high partially covered with
Boston ivy. The client would like to paint the walls using
latex paints. Is it possible to spray paint over the vines when
they are dormant without severe damage? (Oregon)

Solution: Since paints can affect living plant tissues,
try painting a small area of a wall to test for possible injury.
Latex paint has been used without harm to tree trunks,
however we do not have any information on this paint over
Boston ivy.

You may consider pruning the ivy back, without
damaging the main stems, before painting. Plants begin-
ning to leaf out or with expanding leaves may have greater
potential for exposure and injury.

WT&T

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