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Pebble Beach					
Manhattan II					
Citation II					
Pennfine					
Overall Quality	California '85	7.1	6.4	7.0	—
	New Jersey '86	7.2	5.5	6.9	5.5
	New Jersey '87	6.1	4.3	5.8	4.3
	Oregon '86	7.0	6.6	6.9	—
	Oregon '87	6.9	6.1	6.2	—
Net Blotch Resistance		7.0	4.0	8.0	4.0
Least Stemminess		7.0	6.3	6.7	—
Darkest Color		8.0	7.0	7.3	7.0
		9 = best		1 = worst	

Protection for Pebble Beach has been applied for under the Plant Variety Protection Act.

LOFTS OPENS WEST COAST RESEARCH FACILITY

Lofts Seed, Inc., based in Bound Brook, NJ, has established a West Coast research facility on a 50-acre, company-owned farm located near Albany, OR.

The facility is headed by Dr. Virginia Lehman, who recently completed her Ph.D. at Texas A & M University, under the direction of Dr. Milt Engelke. Lehman also holds a master's degree from the University of Idaho, where she specialized in turfgrass breeding and seed production.

"We're delighted that Virginia has joined Lofts, and we have big plans for our turfgrass breeding program in Oregon," said Dr. Richard Hurley, vice president and

director of research for the company. "With research farms on both coasts, we have a unique opportunity to coordinate and expand our research efforts."

CARRAWAY APPOINTED SALES MANAGER

Bill Carraway has been named sales manager for the Florida and Caribbean territories of Southern Turf Nurseries, based in Tifton, GA. He is leaving the Atlanta sales territory, where he has served since 1989.

Carraway has more than 15 years' experience in landscape construction and maintenance, as well as knowledge of golf course construction and irrigation. He com-



pleted special course work in turf and ornamental horticulture and ornamental and turf pest control at the University of Georgia College of Agriculture in Athens, GA.

Park Managers

continued from page 30

also addressed during the second-year program in a course entitled, "Being In The Fishbowl: The Public Perception." According to Wegner, there are any number of common practices in the industry which can lead to misunderstandings between the public and maintenance management and personnel.

"There are plenty of misconceptions out there concerning the green industry, like the one that arises when one guy is digging a hole with a backhoe, and another guy is leaning on a shovel looking into the hole," Wegner explains. "The public sees this and thinks, 'Look at that lazy guy leaning on a shovel watching someone else work!' But what the public doesn't realize is that the guy with the shovel is probably a spotter, and is there to make sure the backhoe doesn't hit a 24-inch gas main or other potential hazard."

"Another example of a public misperception which can be avoided has to do with different work crews, on different schedules, taking their lunch breaks at the same restaurant," he continues. "The public sees the same color trucks parked in front of that restaurant for hours, even though 15 different trucks and crews may have actually been there. But the public perceives it as workers sitting around eating all day and wasting taxpayer dollars."

Wegner adds, "We teach maintenance managers how to deal with those perceptions and how to avoid creating them. We want our students to create a very positive and professional image for the green industry as a whole."

Such lofty yet practical goals are at the heart of the program. According to Wegner, the school was founded in 1984 by several individuals in the field of landscape maintenance management. Recognizing that many people in management who worked their way up from maintenance have little or no formal education in horticulture, the founders wanted to create a way in which these people could expand their knowledge of horticulture and personnel management techniques in a time-efficient manner. They realized from the beginning that few people at the management level have much time to spend going back to school.

"We said, 'Let's put a school together for anyone in the green industry who wants to learn more, not only about horticulture but also about personnel and training, communications, irrigation, and employee and self-management. The problem was how to do it,'" Wegner recalls.

The intensive program, one week per year for two years, provided the answer. While even one week a year is still more than some maintenance managers can spend away from work, it is a manageable amount of time for many people. Other programs of this type existed in Colorado and Washington State, but there were none in the Southwest, where landscape maintenance is a year-round industry.

"We assembled a board of regents from the Pacific Southwest," Wegner recalls. "That includes Hawaii, New Mexico, Arizona, Nevada, and California. All the members were volunteers from the green industry."

The instructors at the school are also green industry professionals. However,

Wegner asserts that the students learn as much from each other as they do from their teachers.

Frederick agrees: "The best thing was being able to talk to people from outside my immediate area. Our problems are fairly common, so our solutions can be applied fairly universally."

"In the Innovative Park Elements session, for example, each student had to make a presentation about something innovative that their agency was doing," he explains. "One person discussed how his agency was using camera surveillance for park security. Now we have actually started videotaping certain park areas, and have filmed people committing acts of vandalism and writing graffiti."

Frederick continues, "During both years of the school there is a session on team management, and I really get into the topic of teamwork and motivation. I've been able to incorporate some of what I learned during these sessions into the personnel training I do in Modesto."

As a recent appointee to the school's board of regents, Frederick will be working with first-year students on their projects. He also plans to attend the school's graduate program, which was started this year.

"The goal of the graduate program is to help supervisors who have completed the school achieve high levels of performance and accountability in the technical, interpersonal, and customer service areas," Wegner enthuses. "With all the environmental issues surrounding us, the green industry is going to become increasingly important in the '90s."

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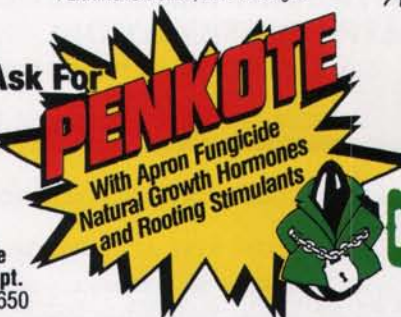
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TURF TYPE BERMUDAGRASS

Turf Painting

continued from page 19

areas, penalty areas, and the center circle. The foul lines, on deck circles, and coaches' boxes on the softball and baseball are painted instead of chalked.

"We can make one field ready for two different sports by using a second color," states McClone. "We've noticed that paint lasts longer and looks brighter than chalk. It also saves us time because we don't have to remeasure." The park's six-man crew keeps one gasoline-powered and two compressed-air line markers busy much of the year.

While painting has brought very dramatic results on sports fields, it has served golf courses in more subtle ways. Nearly all golf courses use paint in some form for marking ground under repair, out of bounds, and cart path traffic control. Much of this type of work is accomplished with the use of aerosol cans of paint. A superintendent can mark a two-inch line more than 1,000 feet long with a single 16 ounce can of aerosol paint, says Tom Moderow with American Marking Corp. of Omaha, NE. If temporary lines are desired for a tournament, the superintendent can use spray chalk.

***"Once you find the
right paint and ratio
of paint to water,
the color is
indistinguishable
from the
overseeded turf."***

The key to aerosols is they must work in an upright or inverted position. Conventional aerosols will not spray when held upside down. They may also contain propellants or pigments which can harm turf. Be sure to specify that you need products safe for turf when buying aerosols.

In the South and West, some superintendents opt to paint dormant bermuda instead of overseeding it. In areas where bermuda does not go completely dormant, some superintendents may apply a light spray of green turf paint before important

tournaments. Harold Vaubel, superintendent at La Costa Country Club in Carlsbad, CA, sprays banks where overseeding is difficult to make his course perfect for the Tournament of Champions in January. "Once you find the right paint and ratio of paint to water, the color is indistinguishable from the overseeded turf," says Vaubel.

In Jackson, MS, Stan Reedy has two months in the winter where the bermuda at Castlewood Country Club is dormant. Since Castlewood is private and play drops significantly in the winter, he doesn't have to be as concerned about traffic damage to his dormant bermuda. "I've tried overseeding, painting, and just leaving the greens dormant," he states. "The members who play during the winter get used to playing on the painted greens. It just depends on whether we want to spend the money that winter on overseeding."

Reedy uses a Spray Hawk walk-behind boom sprayer to paint his greens. "It takes about five gallons to go over three greens in two directions," adds Reedy. "We pull the sprayer behind us instead of pushing it so we won't get footprints or wheel marks. By the time we finish painting in one direction, the paint is dry enough for us to go the other way. Then, we come back two or three times during the winter just to touch up the color." Both Vaubel and Reedy have been using paint from Green Graphics in Albuquerque, NM.

Reedy also uses aerosols to direct carts away from his greens. "We paint orange lines in front of the greens to restrict carts most of the winter," he adds.

Manufacturers caution that the best way to keep sprayers from plugging is to follow directions precisely, mix the paint well, screen the paint before mixing it with water, and cleaning the equipment after each use. "We advise our customers to pour the paint through a nylon screen before adding it to the tank," says Debbie Williams at Diamond Paint in the Des Plaines, IL. "Good paints won't foam when mixed either."

"It's important to clean the sprayer and screens carefully after each use," advises Ron Hage with Little Mfg. in Abilene, TX. "Run the sprayer with just water after you're finished to clean all nozzles thoroughly. During use, it's helpful to keep the pressure within an acceptable range to achieve uniform coverage."

Ron Zienkiewicz with W.A. Cleary in Somerset, NJ, maker of Greenzit, stresses the importance of using products designed



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for turf. "You don't want the colorant to contain lead, cadmium, or any mercurial mildewcide," cautions Zienkiewicz. "It must dry rapidly and not wash or rub off once dry. Experience will tell you which paints last the longest."

There is one other option to overseeding and painting for small worn or discolored patches of turf," says Jim Kelsey of Partac Peat Corporation in Great Meadows, NJ. "Colored topdressings are now available to conceal the dirt or thatch. You can see tan through the turf in areas that are overseeded lightly. Green topdressing conceals the tan from overhead cameras and makes the hole area appear greener."

One final comment from a groundskeeper concerning paint comes from Boltz at North Lebanon School District. "Schools and parks operate on relatively tight budgets," he says. "We don't have the best irrigation systems and can't always take advantage of fungicides or pesticides to keep our turf perfectly green and uniform. We are also under pressure to minimize the exposure of students and athletes to pesticides. Sometimes it makes more sense to paint turf for a special event rather than spend the money throughout the year to have perfect turf."



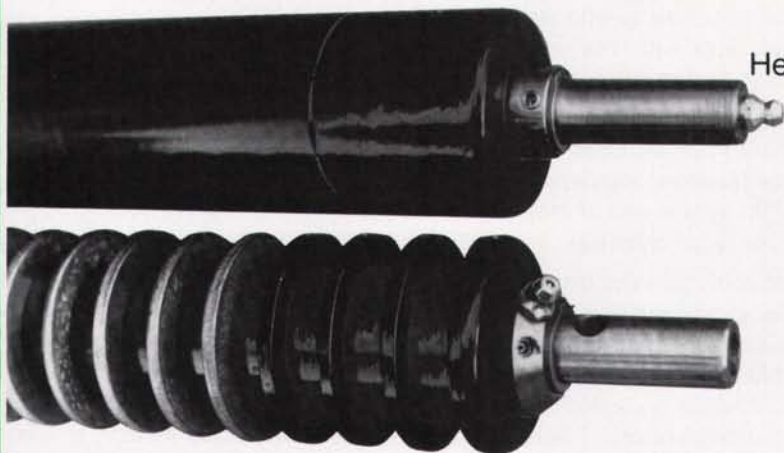
Using stencil to paint numbers on football field. Photo courtesy: Newstripe, Inc.

There clearly are ways to help turf out when it is not in its peak growing season, has fallen to some unforeseen catastrophe, or must look its absolute best for a major event. Painting, when done correctly with the right products, won't harm turf and will help the superintendent's or sport turf

manager's reputation. There is nothing to be embarrassed about, say those who use paint. If they use it for the Super Bowl, there should be no reason why you can't use it for your sports facility. It's simply a valuable part of professional turf management. ☺

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CHALKBOARD

TIPS FROM THE PROS

SELECTING MOWERS FOR QUALITY AND PRODUCTIVITY

Beginning in August, turf managers at golf courses and other large recreational facilities take a hard look at their mowing equipment to decide if changes are needed for the coming year. Questions arise regarding reliability, maintenance, productivity, and economy. These factors help the manager determine each mower's cost of operation, information necessary when it comes to budgeting.

However, there are factors which can't be boiled down into a dollar value. Quality of cut is the most obvious. The mowing needs of a turf manager depend largely upon the sport(s) played and the special care required for certain areas of the facility. There may be a wide variety of sites, each with its own level of quality and playability. Therefore, no one mower or mowing program is appropriate for all sports facilities.

Today it's common to find a variety of mowers at sports facilities. Rotary, reel, and flail mowers all offer special advantages. There has also been a significant amount of improvement in each type of mower in the past few years.

Reel mowers have the uncontested edge in terms of quality of cut. The cut of reel mowers has been made finer yet by increasing the number of blades on reels, changing the gearing of belt-driven or ground-driven cutting units, and using hydraulic motors to turn the reels. Grooming attachments, which precede cutting units and stand the turf up for the blades, have now spread from greensmowers to three- and five-gang models.

Although the maneuverability of reel mowers has improved, they still can't match the zero turning radius of the latest rotaries. Nothing compares to rotaries when it comes to trimming around trees and other objects. Furthermore, this maneuverability is available in rotary mowers with large widths of cut. Small, walk-behind trim mowers are almost a thing of the past.

The distribution of clippings, a draw-

back of rotaries in tall turf, has been improved by designing decks that cut clippings into smaller pieces before they exit the chute. Clipping collection systems that make dumping less frequent and more convenient, have also been developed for rotaries.

Flail mowers, long considered appropriate only for low-maintenance or utility turf, are now available with fine-cut blades. Clippings are discharged along the entire width of the cutting unit. The free-swinging blades of flail mowers will not throw rocks or other loose objects hidden in turf. This is a definite safety advantage in parks and other facilities where there are people around.

Perhaps the most significant improvement in mowers over the past 20 years has been the development of machines that are larger, yet provide a quality of cut and maneuverability approaching that of smaller units. Triplex greens mowers can compete in terms of quality with walk-behinds. Fairway units with five or seven gangs now match triplex versions and beat tow-behinds.

The purchase price increases with the size of mowers. However, that doesn't necessarily mean the annual cost of operation is greater for the larger machines.

David Legg, national sales manager of Ransomes, Inc., in Johnson Creek, WI, has carefully tabulated the annual cost of operating three different sizes of gang riding mowers. By estimating costs, such as purchase price, maintenance cost, labor, fuel, and depreciation, and figuring in the productive life of a mower in years, he has proven what manufacturers have been saying for some time. His calculations show that the increased productivity of larger mowers offsets most of the difference in purchase price among the mowers.

If you have the acreage to keep a larger mower busy, and it meets your needs in terms of cutting quality and maneuverabil-

ity, then it will actually cost less per acre to operate than smaller units, according to Legg. When you compare units with similar mowing quality, increased productivity becomes a clear advantage.

Greater mower productivity can be put to use in a number of ways. The first is to reduce the number of mowers in your equipment inventory. If a more productive mower can do the work of two less productive units, it can also free up one operator for other duties.

Another way to utilize the increased productivity of mowers is to increase mowing frequency. Dr. Robert Shearman, head of the department of agronomy at the University of Nebraska in Lincoln, has shown through research that turf quality improves with mowing frequency. He has revealed that increased mowing frequency increases shoot density. Denser turf provides a better playing surface, helps keep the rootzone cooler, reduces evapotranspiration, and resists weed encroachment.

By mowing daily instead of weekly, plant water use can decrease by as much as 30 percent, says Shearman. While daily mowing is impractical for many sports turf managers, increasing mowing frequency to two or three times per week can conserve water.

Shearman warns that maintaining turf below its optimal cutting height for any extended period of time is asking for trouble, especially during the summer. He also cautions that reducing mowing frequency significantly in the off season may have an adverse effect on turf density. The plant's response to increased mowing frequency, or to raising the cutting height to improve heat tolerance, is not rapid. It takes turf weeks or even months to adjust.

Productivity, quality, and playability are derived from utilizing the right combination of mowing equipment. One cannot be overlooked in an attempt to maximize another. Consider all these factors when you plan your equipment needs for the coming year.

COMPANY TO MARKET WATER CONSERVATION PRODUCT FOR GOLF

New Golf Concepts, Inc., based in Westminster, CO, has entered into an agreement with Sumitomo Corporation of Tokyo, Japan. The American firm will be the exclusive distributor of Isolite for the U.S. golf market.

Isolite is a porous ceramic, formed from diatomaceous earth and processed at temperatures in excess of 1,800 degrees to provide physical strength. It is then extruded into uniform granules in graduated sizes for use in various applications.

The product is effective in drought-prone areas, such as high spots in greens, south-facing and steep slopes, isolated dry spots, and areas receiving marginal irrigation. In sandy soils it can reduce high percolation rates, while increasing air and water permeability in clay and compacted soils.

An initial review of Isolite was conducted by Dr. John Hernandez, former deputy director of the Environmental Protection Agency. He reported that Isolite does not possess any elements harmful to

the environment, "and its cost-saving benefits through reduced water usage make it a very desirable product for conservationists, environmentalists, and agronomists."

DRUEBBISCH NAMED HERBICIDE MANAGER

Bernd Druebbisch has been appointed product manager for herbicides with Ciba-Geigy's turf and ornamental products group. He will be responsible for the company's Pennant herbicide, a popular product for control of yellow nutsedge and many other weeds.

Druebbisch moved from the company's worldwide headquarters in Basle, Switzerland, to its U.S. headquarters. Before joining Turf and Ornamental Products, he was responsible for Ridomil agricultural fungicide in Africa and Asia.

Druebbisch holds a bachelor's degree in international agriculture from Germany's University of Kassel-Witzenhausen and a master's degree in the technology of crop protection from England's University of Reading. He is a native of West Germany.

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ROOKIES

PRODUCT UPDATE

TRENCHER



Powered by a 4.6-hp Wisconsin engine, the Model K-T 200 double V-belt drive portable trencher can dig 20 to 30 feet of two-inch-wide trench per minute. Digging depth is adjustable to eight inches.

The V-belt system eliminates engine vibration and PTO damage because of operator abuse in problem digging areas. It will cut through a six-inch root and seconds in still leave a clean trench.

KWIK-TRENCH

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GANG REEL MOWERS



Kubota Tractor Corporation's Verti-Reel Product Line includes complete mowing and cutting units for total turf maintenance. Design for the turf market, the hydraulically driven five- and seven-gang units are ideal for golf courses, sports fields, and other applications.

38 Golf & SportsTURF

The five-gang unit is a quality-cut reel mower which can be converted into a vertical cutting unit. Mowing height can be set precisely from 3/8 to three inches, in any increment. For vertical cutting, the verti-reel has heavy-duty, reversible blades with close spacing for efficient thatch removal.

The 30-inch-wide, direct drive reels cut a swath of more than 11 feet. Excellent maneuverability enables the operator to cross-mow, mow diagonally, and change mowing patterns to avoid rutting.

The seven gang mower heads have eight blades mounted on 7-1/2-inch diameter reels that clip every 1/4 inch of turf. Reel speed is adjustable from 210 to 1,400 rpm, and is independent of ground speed. The powerful reels produce a greens-quality cut on ryegrass and bermudagrass. The tire surface distributes weight over a larger area, resulting in less compaction.

KUBOTA TRACTOR CORP.

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AERATOR



The new Aer-Way pull-type hydraulic lift shatter tine aerator from Holland Equipment Ltd. is designed for low-horsepower tractors and tractors without a three-point hitch attachment. Hydraulic outlets are required to operate this unit. The tongue is easily attached to the drawbar and the frame is hydraulically lowered or raised for transportation or clearance of obstructions. Aeration blades are available in 4-1/2-, 6-1/2-, and eight-inch lengths.

HOLLAND EQUIPMENT LTD.

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WATER REMOVAL MACHINE



Kuranda's Super Sopper water removal machines quickly remove puddles from soggy clay infields. Using a sponge-covered roller with an internal storage tank, they can pick up 3/4 of an inch of water per pass from grass, artificial turf, and sandy infields. Six different models are available. They can remove from 100 to 4,000 gallons of water per hour from any playing surface.

To maximize the machines' efficiency, Typar geotextile can be placed over puddles to improve traction and filtration. The geotextile can be used repeatedly. Its light weight and texture make it easy to move.

KURANDA USA

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STRIPER



Rugged enough to withstand everyday use and provide years of trouble-free striping, the Model 233 line striper is designed for precise, straight-line operation. It can be used on athletic fields, running tracks, courts, parking lots, and other areas that require striping.

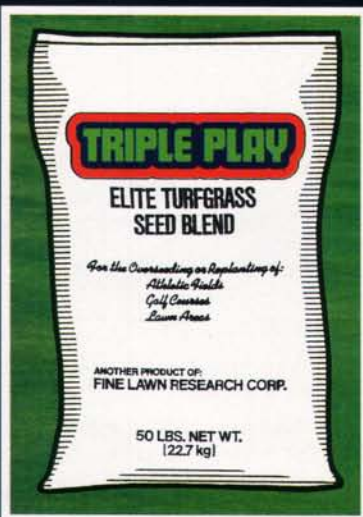
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Since not all fairways, athletic fields, or office parks are created equal, Fine Lawn Research developed Triple Play. This is a unique blend of perennial ryegrasses that can be carefully tailored to the specific needs dictated by the use and climate conditions in your area. Triple Play includes Stallion plus two other elite turf type perennial ryegrasses. You no longer have to settle for a perennial ryegrass blend that is only satisfactory. You can have Triple Play blended to your requirements. Ask your local distributor how you can get Stallion blended specifically for you!

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Stallion Perennial Ryegrass

Turf Quality

AURORA, OR 1987-88

VARIETY	2 YR. AVG. SCORE
Stallion	7.0
Citation II	6.9
Prelude	6.8
Barry	6.5
Cowboy	6.5
Pennant	6.3
Regal	6.3

Rated 1-9, 9=Best

Turf Color

JUNE 1989

VARIETY	RATING
Stallion	8.0
Palmer	7.5
Regal	7.5
Pennant	7.0
Pennfine	7.0

Rated 1-9, 9=Dark Green

Turf Texture

JUNE 1989

VARIETY	RATING
Stallion	8.0
Palmer	7.0
Barry	7.0
Pennfine	6.5
Pennant	6.5
Regal	5.5

Rated 1-9, 9=Very Fine



ROOKIES

PRODUCT UPDATE

SOIL CONDITIONER



Retain is a combination of encapsulated soil bacteria, hormones, enzymes, specially processed pre-impregnated seaweed, energized organic carbons, amino acids, vitamins, organically chelated macro and micro nutrients, and documented ingredients for soil conditioning. It is designed to flocculate and increase the porosity of soil.

Available in 1/2- and one-gallon containers, five-gallon pails, and 55-gallon drums, the product can significantly improve soil permeability, nutrient availability, seed emergence, and stem caliper. It can also create a deeper, stronger root structure. Retain increases organic matter in soils by building humus and organic carbon structure, thereby improving their fertility and water-holding capacity.

AGRI-MART, INC.

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MOWER MAINTENANCE VIDEO

A 69-minute video entitled "Intermediate Mower Maintenance, Field and Shop Repairs," is designed for owners of 32- to 61-inch mowers from Bobcat, Kees, Buntion, Scagg, Exmark, and other manufacturers.

40 Golf & SportsTURF



Topics include: oil checking and changing, lubrication, air cleaner maintenance, blade belt tension, traction wheel adjustment, belt changing, bell crank, pulley tension spring, engine troubleshooting, transmission rebuilding, etc. Several "tricks of the trade" are also featured in the video.

C.D. ANDERSON TRAINING VIDEOS

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CUSTOM STENCILS



Newstripe, Inc., can manufacture stencils in almost any shape or size. All stencils are cut from 1/8-inch polytough, an extremely durable plastic material. Paint will not stick to it.

A complete line of standard stencils is also available, ranging from one inch to eight feet. The company also manufactures striping machines and paint-spraying equipment.

NEWSTRIPE, INC.

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FERTILIZERS



The Win line of turf and ornamental products features environmentally oriented IBDU slow-release nitrogen in several turf blends and planting tablets. These products provide excellent agronomic performance and eliminate excess nitrogen runoff.

PAR EX PROFESSIONAL PRODUCTS

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FLAIL MOWER



RF Series Flail Mowers are available in 60- and 74-inch widths. The 74-inch model can be converted to an offset configuration for areas where close mowing is required.

The flails fit standard Category-I, three-point-hitch tractors and are equipped with heavy-duty 4-1/2-inch cutter shafts. Fine cut, rock and trash, or dethatching knives are available for a variety of mowing applications.

SERVIS-RHINO

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