

cc engine develops 13,000 rpm. All use a 3/8-in. pitch, .05 gauge chain. Check the increased distance between front and rear handles for more natural arm positioning and improved sight lines.

Circle No. 254

**REDMAX**  
800/291-8251  
sales@redmax.com

The RedMax Pro Series saws, made by Komatsu Zenoah America in Norcross, GA, come in four models. The G310TS has a 14-in. bar and 30.1-cc engine; the G455AVS has a 16-in. bar and 45.1-cc engine; the G561AVS has 16-, 18- or 20-in. bars and a 53.2-cc engine; and the G621AVS is available with 16-, 18-, 20- or 24-in. bar and has a big 62-cc engine. All are equipped with Oregon type chains and feature solid state ignition and an automatic, gear type oil pump. They come with a 90-day commercial warranty.

Circle No. 255

**SOLO**  
800/765-6462  
www.solo-germany.com

The Solo 651Sp comes with a 15-, 18- or 20-in. bar and chain. Made in Germany and distributed by Solo in Newport News, VA, it is powered by the 51-cc Solo two-cycle engine. The unit weighs under 11 lb. but offers an antivibration system, adjustable oiler, two piston rings, primer and half-throttle automatic. Quiet and powerful, it is ergonomically designed for easy handling and operation, making it ideal for debranching or thinning medium-size trees.

Circle No. 256

**SHINDAIWA**  
800/521-7733  
www.shindaiwa.com

The Model 488 from Shindaiwa, Tualatin, OR, has a full antivibration damping system to reduce operator fatigue. An adjustable automatic oil pump runs off the clutch to regulate oil consumption. It can be fitted

with 16- to 20-in. bars and has a 47.9-cc, 3.5-hp engine. Dry weight is 10.1 lbs. The saw comes with a boot-mounted carburetor for protection against vapor lock. Chain catcher is standard equipment.

Circle No. 257

**STIHL**  
800/GO-STIHL  
www.stihlusa.com

The Pro 036QS from Stihl, Virginia Beach, VA, is the first chain saw with a triple activated chain brake. Either inertia, front hand guard or rear handle will activate the chain brake. The 036 has a 61.5-cc engine, weighs 13.2 lbs. and comes



Stihl 036 is the first saw with a triple activated chain brake.

with a 16-, 18- or 20-in. Rollomatic bar. Or check out the 026 with an exclusive side-access chain tensioner and an easy access air filter, which makes maintenance simple. Both come with 90-day warranty.

Circle No. 258

**TANAKA**  
243/395-3900  
www.tanakapowerequip-ment.com

The Tanaka TCS-3401 limbing saw from Tanaka Power, Kent, WA, features excellent power-to-weight ratio. Powered by a 34-cc, 1.8-hp engine, it weighs under 8 lbs. The saw can be fitted with a 14- or 16-in. Oregon bar and chain. It has a heavy duty antivibration system, AirForce air filtration, cold weather switch, climbing ring, Walbro carburetor and priming pump. It is covered by a full year warranty for professional use, five years on the electric ignition module.

Circle No. 259

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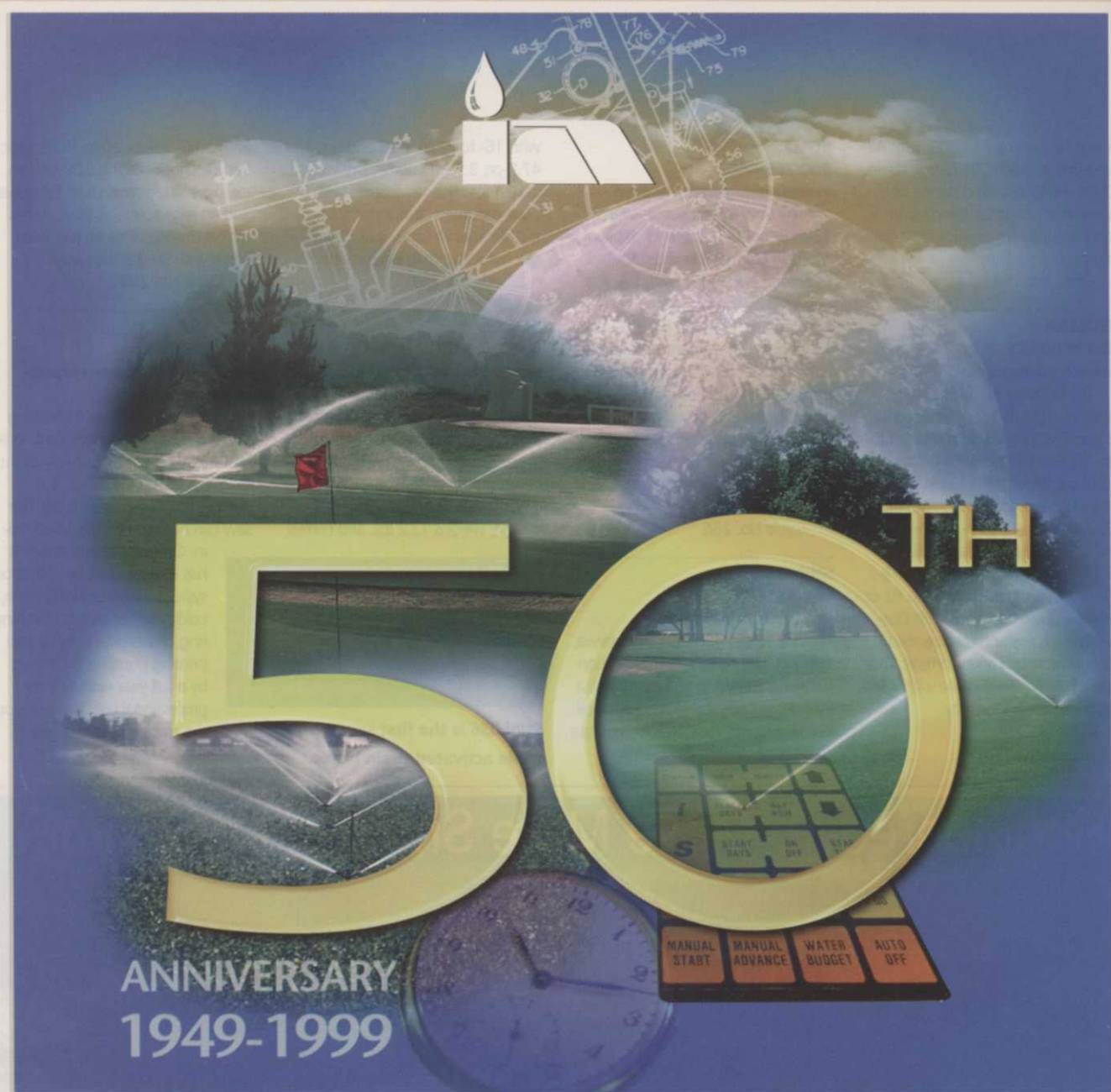
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Circle 119



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Circle No. 120 on Reader Inquiry Card

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# ask the expert

BY BALAKRISHNA RAO

## Easing drought stress

**We have been experiencing a severe drought in New Jersey this year. What can we do to lessen stress to mature trees?**

— NEW JERSEY

**D**rought-stressed trees can weaken and decline or die if corrective measures are not provided at the proper time. Generally, the following plants are subject to drought stress:

- young, newly transplanted plants with limited root systems or plants whose absorbing roots have been cut off during transplanting operation;
- shallow-rooted plants; a large number of plants growing in a limited soil area; and
- mature trees with limited water supply or resources.

Drought can dehydrate plant tissue and can cause scorching, wilting, defoliation, dieback and/or death in some situations.

Consider providing the following for management:

- Apply mulch (no more than 3 to 4 in.) to prevent moisture loss.
- Provide water as needed — deeply but infrequently. Generally 2 in. of water per week is enough on clay soil. This may vary, depending upon the soil type.

For example, 2 in. twice a week may be needed on sandy soils. Monitor the soil moisture using moisture meters such as tensiometers or other portable digital meters.

There are some water absorbing polymers in the market. Their practical use in

landscapes needs further research. Similarly, the benefit of a number of water dispensing tools placed around the trunks of trees, antidesiccants, biostimulants and mycorrhizae products also need further study. Reports suggest that properly fertilized trees and plants having mycorrhizae have been helped by drought effect. Consider fertilizing using slow-release, organic fertilizer as needed — preferably before the drought.

- Reduce biotic stress such as early foliage diseases and leaf feeding destructive insects and mites, which can deplete the nutrient reserve of the plant. Once the plant is stressed, opportune agents (pests) like borers and/or canker diseases can establish on weakened plants. If so, provide for their management as needed.

- Reduce the stress from abiotic factors such as construction, soil disturbance, compaction and root loss from digging, fill damage and deicing salt application, to name a few.

- Reduce compaction by providing vertical and/or radial trenching to aerate the soil.

This is a guideline to help manage the drought problem and should not be considered a recommendation to deal with a specific drought situation. Each situation should be studied/diagnosed, and proper treatments should be provided as needed.

## Managing juniper scale

**We are finding severe infestations of juniper scale on upright junipers. They are planted as hedge plants along a property line. What is the best way to**

**manage this problem? Some of the plants have branch dieback. Will these branches come back?**

— PENNSYLVANIA

**J**uniper scale can become a serious pest. They can build up in numbers each year on an infested plant. The needles, particularly on the pfitzer juniper, turn yellow due to scale insect feeding. These sucking insects can weaken



DAVEY TREE EXPERT CO.

**Juniper scale**

plants. At first, they are whitish in color, but turn gray to black as they age. Scale overwinters as adult females.

Treat with horticultural oil (dormant oil) in early spring. Also, use insecticides such as Malathion, Talstar or Dursban from mid-May to late-June when the crawlers (young nymphs) emerge. Two or three thorough treatments may be needed at 10-day intervals to clean up heavy infestations.

Ideal timing would be when the second instar nymphs (crawlers) begin to settle down and before they develop a hard cover. This would be mid-June to the end of June. After that, consider using 2% oil to manage it from June through September. Fertilize and water as needed to improve plant health. Read and follow label specifications.

*Manager of Research and Technical Development for the Davey Tree Expert Co., Kent, Ohio*

**SEND YOUR QUESTIONS TO:** "Ask the Expert" Landscape Management; 7500 Old Oak Blvd.; Cleveland, OH 44130, or email: [sgibson@advanstar.com](mailto:sgibson@advanstar.com). Please allow two to three months for an answer to appear.

ask the expert

BY BALAKRISHNA RAO

## Loader backhoe for commercial use

New Holland Construction's Model LB75 entry-level loader backhoe compares in size to the stronger Model 555E, with a few modifications. The LB75 features a New Holland/Iveco, 75-



hp engine, compared to the 80-hp 555E engine. The LB75 is only available with 24-in. tires, instead of the 28-in. 555E tires.

For more information, contact New Holland at 800/825-4891, [www.newholland.com/na](http://www.newholland.com/na) or

Circle No. 260

## Fabric protects young trees

Reemay's new Typar tree protector fabric can be wrapped around young trees to protect them from mowers, weed eaters, deer, insects and bark splitting. Typar comes in 4-in.-by-25-ft. rolls and can be left in place for several years.

For more information, contact Reemay at 800/321-6271, [www.reemay.com](http://www.reemay.com) or

Circle No. 261

## Insecticide expands uses

Merit insecticide, manufactured by Bayer Garden & Professional Care, can now be used to control royal palm bugs, black vine weevil larvae, psyllids, flathead borers, eucalyptus long-horned borers and Japanese beetle adults. In addition, the Merit granular and wettable powder can now suppress hairy chinch bug nymphs when applied preventively to turfgrass.

For more information, call 800/842-8020 or

Circle No. 262

## Real stone that doesn't crack

Vengeance Creek Stone's real stone products, which are harvested from metamorphic quartzite deposits in North Carolina, feature deep, rich colors without the cracking, chipping and flaking problems found in slate and man-made stone products. The 450 million-year-old stone resists stains and is hand-cut, washed, pre-sorted and sized before packaging. Vengeance's four product lines — accent, stepping, stacking and designer stones — are designed to match project specifications.

For more information, contact Vengeance Creek Stone at 800/295-6023, [www.vcstone.com](http://www.vcstone.com) or

Circle No. 263

## Rain Bird sales rotors

Rain Bird sales' 5000 Series rotor is a midrange, gear-drive design, available in a 4-in. model, with 6- and 12-in. models scheduled for introduction soon. Rotors feature full- or part-circle operation and an arc adjustment from 40° to 360°. In addition, the 5000 series rotors come with a tree of low-angle, Radius+ and standard angle Rain Curtain nozzles with a capability of 50 feet.

For more information, call 626/812-3400 or

Circle No. 264



## Trimmer meets standards

RedMax's new BCZ 2500S string trimmer meets California CARB II and EPA standards for 2000. Using the Strato charged air head engine, the trimmer is said to be 30% more fuel efficient than previous engines. The BCZ 2500S features a two-cycle engine that powers a straight, solid-steel drive

shaft with splined ends, connected to a 4-in. cutting head.

For more information, call 800/291-8251 or

Circle No. 265



## Woods' midmount can cut at 9 mph

Woods Equipment's M-Series Mow'n Machines are midmount zero-turn mowers with a 9-gallon fuel capacity, top speed of 9 mph, lift-up engine hoods, hydraulic deck controls and a two-year parts and labor warranty. The M2250 uses a 22-hp engine and 50-in. deck, while the M2560 includes a 25-hp engine and 60-in. deck.



For more information, contact Woods at 800/385-9798, [www.woodsonline.com](http://www.woodsonline.com) or

Circle No. 266

## Soil Profile Sampler

The new Mascaro Profile Sampler from Turf-Tec International simplifies soil sampling. The soil sample is extracted, and then the cutter blade is opened with the aid of a specially designed hinge.



There are no bolts or screws to fumble with when opening the sampler. The sample can be viewed instantly — and completely

intact— so you can examine a true, undisturbed soil profile. This instrument will take an undisturbed soil sample 6-in. deep, 3-in. wide and 1/2-in. thick. For more information, call 800/258-7477 or

Circle No. 269

## Seeding maneuverability



Due to the seeder's compact size, the Brillion Turfmaker Junior seeder, available in 4- and 6-ft. seeding width models, offers increased landscaping maneuverability. The 4-ft. model has a 7-bushel hopper capacity and 11 seed metering cups to evenly distribute grass seed, while the 6-ft. model can hold 11 bushels with 17 seeding cups.

For more information, contact Brillion at 800/409-9749, [www.brillionfarmeq.com](http://www.brillionfarmeq.com) or


Circle No. 267

## Deere E-Gator utility vehicle is whisper quiet

The John Deere E-Gator Utility Vehicle can be seen and not heard because it's powered by a whisper-quiet electric motor. Designed for customers concerned with operational sound levels and exhaust emissions, the electric utility vehicle is a clean, quiet and efficient option. The electric utility vehicle provides the same advantages of the gas and diesel models — low ground pressure to help prevent ground compaction, smooth operation that's easy to learn safety protections, durability for long life and easy access to service points for easy maintenance. For more information call 919/877-0877 or



Circle No. 268



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Phone (\_\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_\_) \_\_\_\_\_

Internet/E-Mail Address \_\_\_\_\_

**1. My primary business at this location is: (fill in ONE only)**

- |   |   |
|---|---|
| 0040 <input type="radio"/> Sports Complexes                                   | 0020 <input type="radio"/> Lawn Care Service Companies                  |
| 0050 <input type="radio"/> Parks  | 0030 <input type="radio"/> Landscape Architects                         |
| 0060 <input type="radio"/> Schools, Colleges & Universities                   | 0090 <input type="radio"/> Dealers/Distributors/Formulators/Brokers     |
| 0070 <input type="radio"/> Hotels/Resorts                                     | 0100 <input type="radio"/> Manufacturers                                |
| 0080 <input type="radio"/> Hospital/Health Care/Military                      | <input type="radio"/> Others Allied to the Field (please specify) _____ |
| 0010 <input type="radio"/> Landscape Contractors (installation & maintenance) |   |

**2. Which of the following best describes your title? (fill in ONE only)**

- 10  **Executive/Administrator**- President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of Physical Plant
- 20  **Manager/Superintendent**- Arborist, Architect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor
- 30  **Government Official**- Government Commissioner, Agent, Other Government Official
- 40  **Specialist**- Forester, Consultant, Agronomist, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist
- 50  **Other Titled and Non-Titled Personnel** (please specify) \_\_\_\_\_

**3. SERVICES PERFORMED (fill in ALL that apply)**

- |   |  |  |
|---|--|--|
| A <input type="radio"/> Mowing              | F <input type="radio"/> Turf Fertilization   | M <input type="radio"/> Landscape Installation       |
| B <input type="radio"/> Turf Insect Control | G <input type="radio"/> Turf Disease Control | N <input type="radio"/> Snow Removal                 |
| D <input type="radio"/> Turf Aeration       | I <input type="radio"/> Landscape Design     | O <input type="radio"/> Other (please specify) _____ |
| E <input type="radio"/> Irrigation Services | J <input type="radio"/> Turf Weed Control    |  |

**4a. Do you specify, purchase or influence the selection of landscape products?**

A  Yes B  No

**4b. If yes, check which products you buy or specify: (fill in ALL that apply)**

- |                                     |  |  |
|-------------------------------------|--|--|
| A <input type="radio"/> Aerators    | I <input type="radio"/> Insecticides           | O <input type="radio"/> Sweepers                   |
| B <input type="radio"/> Blowers     | J <input type="radio"/> Line Trimmers          | P <input type="radio"/> Tractors                   |
| E <input type="radio"/> De-icers    | K <input type="radio"/> Mowers                 | Q <input type="radio"/> Truck Trailers/Attachments |
| F <input type="radio"/> Fertilizers | L <input type="radio"/> Snow Removal Equipment | R <input type="radio"/> Trucks                     |
| G <input type="radio"/> Fungicides  | M <input type="radio"/> Sprayers               | S <input type="radio"/> Turfseed                   |
| H <input type="radio"/> Herbicides  | N <input type="radio"/> Spreaders              | T <input type="radio"/> Utility Vehicles           |

**5. Do you have Internet Access?** A  Yes B  No

**5A. If so, how often do you use it?** A  Daily B  Weekly C  Monthly D  Occasionally

HOUSE

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**Flowtronex**, a Dallas pumping systems manufacturer, has acquired **Mikotech**, a California-based company that will service Flowtronex customers in the Los Angeles, Orange County, Palm Springs and Las Vegas areas.

**Exmark Manufacturing** appointed Jeffery Hallgren as director of sales and marketing.

**Garick** named Ralf Engelbrecht as national sales manager for product lines such as Paygro, Garick, Forest Floor and Best Sand.

**American Cyanamid** announced it will continue the Double the Dollars Rebate Pro-

gram, an offer designed to reward professional turfgrass managers for early purchases of Cyanamid's Pendulum herbicide and other pendimethalin-based products from Lesco and The Scotts Company. Professional customers must purchase and take delivery of the products by Dec. 15.

**Barenbrug Northeast** named Michael Mulder vice



**Michael Mulder**



**Robert Macfarlane**



**Gwyneth Mansue**

president/general manager; Robert Macfarlane territory manager; Gwyneth Mansue marketing support representative; and John Carson sales and marketing manager for the turf market.



**John Carson**

**Barrett Marketing Group**, a Canadian independent distributor, has been named the exclusive distributor for **Encore Power Equipment** in Canada.

**Epic** of Wisconsin is constructing a new office facility in West Bend, WI, measuring 8,640 sq.ft.

**Gehl's** board of directors approved a 41,000-sq.-ft. expansion project at the company's Madison, SD, skid loader manufacturing facility. This project will be coupled with a remodeling project of 20,000 sq.ft. in the existing plant.

**John Deere** will expand its manufacturing facilities in Augusta, GA. The project includes construction of 206,000-sq.-ft. in facilities and a \$23 million investment.

Mark Phipps joined **Precision Laboratories** as the district manager for the company's turf, ornamental and aquatics team.



**R.M. Wade** purchased **Nibco's** micro-irrigation business, located in Fresno, CA. Nibco will retain ownership of several products not classified under micro-irrigation.

**Irritrol Systems** appointed Eric Schneider district sales manager for CO, UT, MT and WY.

L. William Templeton joined **Woods Equipment** as vice president and general manager, parts business.

# Info center

VIDEOS AND LITERATURE FOR THE GREEN INDUSTRY

**THE PRINCIPLES OF TURFGRASS IRRIGATION...** are covered in Hunter Industries' "Professional Turf Manager's Guide to Efficient Irrigation Practices and Equipment," a free, four-color booklet for turf managers, landscape installers, contractors, grounds crews and specifiers. For a free copy of the booklet, call 800/733-2823.

**SALT DAMAGE IN THE LANDSCAPE...** can occur from the accumulation of salt in the soil and from aerial spray lifted by passing traffic. The Minnesota Nursery & Landscaping Association (MNLA) is offering information on ways to counteract the damage of road salt. To obtain a free copy of MNLA's "Planting and Care Guide," and the "Consumer Directory to MNLA Members," call 651/633-4987 or [www.mnlandscape.org](http://www.mnlandscape.org).

**THE 1999/2000 SNOWPLOW REPLACEMENT PARTS CATALOG...** is now available from Central Parts Warehouse. This year the company is offering Fisher V-plows and replacement parts, low-profile salt spreader parts, list and net prices, 24-hour Internet access and same day shipping on stock parts. To obtain a copy of the catalog, call 800/761-1700 or [www.centralparts.com](http://www.centralparts.com).

**PREPARING FOR ITS JANUARY SHOW...** The Mid-America Horticultural Trade Show has updated and augmented its Web page, which typically remains static during the summer months. The new Web page contains an updated exhibitor list, information about the midwinter conference and other core features, such as Navy Pier, travel, Chicago attractions and the Career Center. Visit the Mid-Am Web site at [www.midam.org](http://www.midam.org).





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11. **Holders of 1.0% or more of Advanstar Communications Inc. Mortgages or Other Securities as of July 1999:** Advanstar Communications Inc. is the Mortgagor under a Credit Agreement dated May 31, 1996, as amended, with various lenders as named therein from time to time. The agent for the lenders is: The Chase Manhattan Bank, Attn: Mitchell Gervis, Administrative Agent, 270 Park Ave., 37th Fl., New York, NY 10017. The security holders/lenders as of 4/99 are as follows: Balanced High Yield Fund I Ltd., State Street Bank & Trust Co., 2 International Place, Boston, MA 02110, Contact: William Connolly, Bank of New York, One Wall St., 16th Fl., New York, NY 10286, Contact: Benjamin B. Todres, BankBoston, N.A., 100 Federal St., Boston, MA 02110, Contact: Jonathan Sharkey, Julie Jalelian, Dresdner Bank, 75 Wall St. - 25th Fl., New York, NY 10005, Contact: William Lambert, First Dominion Capital, 1330 Ave. of Americas, 10th Fl., New York, NY, 10019, Contact: Andrew Marshak, First Source Financial, 2850 West Golf Road, 5th Fl., Rolling Meadows, IL 60008, Contact: Ken Brown, The Chase Manhattan Bank, One Chase Manhattan Plaza, New York, NY 10081, Contact: William E. Rotfino, Indosuez Capital Funding IV, 1211 Ave. of the Americas, 7th Fl., New York, NY 10036-8701, Contact: Francoise Berthelot, Merrill Lynch Sr. Floating Rate Fund, 800 Scudders Mill Road, Plainsboro, NJ 08536, Contact: Jill Montanye, Octagon Credit Investors, 380 Madison Ave., 12th Fl., New York, NY 10017, Contact: Andrew Gordon, Prime Income Trust, 2 World Trade Center, 22nd Fl., New York, NY 10048, Contact: Rafael Scolari, Fleet Bank, MA of D030, One Federal St., Boston, MA 02110, Contact: David Belanger, Jeff McLaughlin, Heller Financial, Heller International Tower, 500 West Monroe, 12th Fl., Chicago, IL 60661, Contact: Linda Wolf, Craig Waslin, BHF - Bank Aktiengesellschaft, 590 Madison Ave., New York, NY 10022, Contact: Tony Heyman (30th Fl.), Linda Pace (29th Fl.), Stanfield Capital Partners L.L.C., Aeries Finance Ltd., Ceres Finance Ltd., 175 Water St., 22nd Fl., New York, NY 10038, Contact: Stephen M. Altieri, Susan McKelvie, Eaton Vance Senior Debt Portfolio, c/o Boston Management and Research, 24 Federal St., 6th Fl., Boston, MA 02110, Contact: Scott H. Page, Van Kampen American Capital, One Parkview Terrace, Oakbrook Terrace, IL 60181, Contact: Jeffrey Maillet, Indosuez Capital Funding

IIA, 1211 Ave. of the Americas, 7th Fl., New York, NY 10036-8701  
Contact: Francoise Berthelot; Morgan Stanley/Dean Witter, 15 Broadway, 10th Fl., New York, NY 10036, Contact: James Morg Oxford Strategic Income, 24 Federal St., 6th Fl., Boston, MA 02102  
Contact: Juliana Riley/Daniel Akaya, Pacific Century Bank N.A., 160 Ventura Blvd., Encino, CA 91436-4487, Contact: Robert Mann, V. President. Also, Advanstar Communications has issued certain notes subject to an indenture (the "bonds"). The trustee under the indenture which trustee is the registrar and paying agent as of July 1, 1999 is: Bank of New York, Attn: Mary Jane Schmalgel, 101 Barclay St., 21st New York, NY 10286. The registered bondholder as of July 1, 1999 is: CEDE & CO., Box #20, Bowling Green Station, New York, NY 10004

12. **Does Not Apply**
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B. Paid and/or Requested Circulation		
1. Sales through dealers and carriers, street vendors and counter sales (Not mailed)		
2. Paid or Requested Mail Subscriptions (include advertiser's proof copies and exchange copies)	41,801	42,054
C. Total Paid and/or Requested Circulation	41,801	42,054
D. Free Distribution by Mail (Samples, complimentary, and other free)	10,275	8,722
E. Free Distribution Outside the Mail (Carriers or other means)	840	492
F. Total Free Distribution	11,115	9,214
G. Total Distribution	52,916	51,268
H. Copies Not Distributed:		
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