Numerous pesticides receive new labels

Roundup L&G, Pennant 5G, Escort, Sonar, Pestroy and Penncozeb have all been granted labels by the EPA. Roundup L&G herbicide, by Monsanto, is formulated and packaged for residential use on perennial and annual weeds, grasses and brush species. Roundup L&G is an 18 percent concentrate of the active ingredient glyphosate. The herbicide will kill most vegetation, but has no activity in the soil, so it can’t move through the ground to hit plant materials.

Ciba-Geigy has received EPA registration on its granular herbicide Pennant 5G. The herbicide fights weeds and grasses, especially nutseed, in container, field and liner grown ornamentals.

Pennant 5G is marketed for nursery and ornamentals operators, but should not be used in greenhouses. It is not labeled for use in California.

DuPont’s herbicide, Escort, has received full EPA registration. Escort provides selective broadleaf weed control, as well as seedhead and growth suppression of perennial grasses. It is also labeled for bareground and brush control programs. Many desirable plants, including Bermudagrass, bluegrass and fescue are resistant to the product. It will kill plants such as clover, common chickweed and dandelions.

The EPA has registered Elanco’s new aquatic herbicide Sonar. Sonar removes pondweed, coontail, waterlily, duckweed and other aquatic weeds. It doesn’t carry label restrictions against fishing, swimming or drinking treated water. Sonar also has no detrimental effects on fish, game birds, insects or organisms such as plankton.

PBI-Gordon has introduced Pestroy Broad Spectrum Insecticide. Pestroy is labeled for control of various insect and mite pests which attack ornamental shrubs and trees.

The insecticide contains the active ingredient fenitrothion. Pestroy won’t harm most trees and shrubs, but will kill a wide range of pests including caterpillars, cankerworms, leaf beetles and whiteflies.

The EPA has registered Pennwalt Corporation's Penncozeb (mancozeb) fungicide. Penncozeb controls many plant diseases in field, fruit and vegetable crops.

Penncozeb is a wettable powder which can be applied by ground or aerial equipment. It controls fusarium blight, anthracnose and downy mildew, among other diseases.

Correction: Lesco products are listed

Eleven herbicides manufactured by Lesco Inc., Rocky River, Ohio, were inadvertently omitted from the Herbicide Directory in the March issue of WEEDS TREES & TURF.

According to Greg Richards, Lesco chemical product manager, here are the omissions/corrections:

- Lesco Benefin (benefin), Lescocide Plus (copper), Lesco Dacthal 5G (DCPA), Lescopex and Super Lescopex (MCP), Lesco 6.6 MSMA (MSMA), Lesco Devrinol 5G (napropamide) Lesco Pre-M (pendimethalin), Lesco A-4D (2,4-D), Lesco Three-Way (2,4-D + MCP + dicamba), Lescopar (MCP + 2,4-D) and Lescobor (ureabbor).

WT&T regrets any inconvenience caused by these omissions.
First to brand name monofila-
ment trimmers for Weedeader,
Wards, McCulloch, 
Lombard, Garden 
Way, Echo, Green 
Machine etc.

WE REMAIN FIRST 
EVEN TODAY!

Years of 
experience and 
engineering 
expertise (since 
1949) have 
developed a 
Hoffco line of 
monofilament 
trimmers and 
trimmer/cutters 
(bladed models) 
that work for 
everyone!

From the 
weekend 
gardener 
to the everyday 
commercial-user 
Hoffco has 
nine models. You 
are sure to find 
the one that is just 
right for your job 
application.

Look for these NEW design features:
• Adjustable Zig-Zag Handlebar with Foam 
  Anti-Vibration Handle Grip 
  for Operator Comfort 
• Hoffco's Shock Absorbing patented Drive 
  Shaft System 
• Carburetor with 'Peep Window' for easy 
  fuel measurement and 
  Foolproof Starting 
• Spark Plug Protector that doubles as a storage hanger.

You get ALL you need from HOFFCO . . .
Backpack or Hand Held Blowers, One-Man and 
Two-Man Post Hole Drills.

We fill all your needs.

Remember . . . we were and are FIRST . . . HOFFCO 
the only name you need to remember.

HOFFCO INC.
358 N.W. "F" St. • Richmond, IN 47374

SURVEY

Survey reveals 
commercial increase

Landscape maintenance companies 
are seeking more commercial ac-
counts because of the increased profit. 
Ninety-two percent of landscape 
maintenance workers surveyed by 
LAWN CARE INDUSTRY magazine say 
they seek out commercial work for 
the money, while 65 percent see more 
potential in the field.

Only 57 percent of chemical lawn 
care companies look for commercial 
accounts based on money, while 79 
percent say they recognize the 
potential.

Landscape maintenance com-
panies got 78 percent of their gross 
receipts from commercial work. 
Chemical lawn care respondents 
cited only 34 percent of their gross 
receipts from commercial jobs.

The commercial work field is ex-
panding. Landscape maintenance 
companies saw their commercial 
work increase by 54 percent, while 
residential work went up only 10 per-
cent last year.

The average acreage of a commer-
cial account is six acres for landscape 
maintenance companies and 6½ acres 
for chemical lawn care companies.

LCI surveyed 500 readers on com-
mercial work, with a 28 percent re-
sponse. Of those responding, 57 
percent worked in landscape mainte-
nance, while 43 percent had chemical 
lawn care companies.

INSECTICIDES

Cornell prof gives 
tips on diazinon use

Dr. Norman Hummel, extension turf 
specialist at Cornell University, says 
there are several actions you can take 
to reduce the potential hazardous ef-
fect the insecticide diazinon may 
have on waterfowl and other bird 
species.

(The EPA has proposed ban-
ing diazinon on golf course and sod 
turf because the chemical may pres-
et hazards to birds. The EPA is cur-
rently reviewing scientific data and 
will make a decision shortly. See 
WT&T, March 1986, p.8)

Hummel recommends:
1) know the label and follow it 
carefully
2) control the application rate
3) don't overlap spray
4) water-in immediately after ap-
plication (for liquid and granular, at 
least ¼-inch is recommended)
5) before puddles forms (they at-
tract bird)
AQUA-GRO® soil wetting agents have become the best selling wetting agents for turf and landscape simply because they work. For more than 30 years AQUA-GRO has helped you solve the toughest water related problems—compaction, localized dry-spots, puddling, thatch and disease—while saving you labor, money and water.

- Saves labor by alleviating localized dry spots and compaction and reducing the need for aerifying, syringing and rebuilding.
- Saves money by increasing fertilizer and pesticide effectiveness because chemicals are distributed uniformly in the root zone.
- Saves water costs by 30-50% because more water uniformly penetrates the root zone...so plants get more and you waste less.

A patented blend of non-ionic organic wetting agents, AQUA-GRO is the only 100% active blend of wetting agents available. We don't believe you should pay for water. AQUA-GRO works by reducing water's natural tensions, ensuring more uniform penetration and drainage through all types of soils and thatch. AQUA-GRO lasts because it won't leach.

AQUA-GRO is available in liquid concentrate and spreadable granular formulations from your local distributor.

AQUATROLS CORP. OF AMERICA, INC.
1432 Union Avenue, Pennsauken, NJ 08110
The Water Management People

For a free, illustrated brochure call:
1-800-257-7797 In NJ (609) 665-1130

Circle No. 104 on Reader Inquiry Card
6) avoid treating bird habitat areas; and
7) try using "scarecrow" techniques.

Hummel, who still recommends diazinon, nevertheless sees a scary trend in the offing. "What we've got here is a dangerous precedent," he says of the diazinon review. "Everytime a pesticide is misused, is it going to come under EPA review and cancellation?"

**GOLF**

**Golf: small number play most rounds**

Only a small percentage of golfers account for the majority of rounds played in America.

A survey by the National Golf Foundation and Market Facts, a Chicago-based marketing research company, states that 25 percent of the nation’s 17.5 million golfers account for 77 percent of all rounds played.

"The research shows that eight percent of all Americans played golf at least once in 1985. The average golfer plays between eight and 24 rounds per year. "This is the first definitive study of the American golfer," says NGF president David Hueber. "The results so far have been startling. We will use our findings to shape our promotional efforts and to direct our resources in areas that will give us greatest yield."

Men are four times as likely to golf as women. The sport is most popular with 30- to 39-year-olds (10.4 percent) and ranks lowest among those under 20 (3.9 percent).

Wealthier people golf more frequently. The survey showed that households with an income greater than $40,000 are three times as likely (13.4 percent) to contain a golfer than households with income less than $20,000 (4.4 percent). The study featured a nationally representative sample of 20,000 households. It is the largest survey conducted strictly for golf, says the NGF.

**PESTICIDES**

**Dow reviews Dursban bird toxicity data**

In the wake of the EPA’s proposal to cancel diazinon insecticide applications on golf courses and sod farms, the Dow Chemical Co. has issued this statement about Dursban, another popular insecticide:

"Dursban poses no hazard to birds or..."
For A Handle On Quality Turf Products
Get A Handle On This

One-source ordering is just one call away, and that call to SMCP means prompt delivery of the chemicals and equipment your lawn maintenance business needs. We carry a complete line of professional lawn care products, so ordering is easy and fast. For all your chemical and equipment needs, one number is all it takes. Take a moment right now to call the SMCP office nearest you to place your order, and request our 1986 catalog.

SOUTHERN MILL CREEK PRODUCTS COMPANY, INC.

SOUTHERN MILL CREEK PRODUCTS COMPANY, INC.

TAMPA, FLORIDA
Phone: (813) 626-2111
FLORIDA WATS: (800) 282-9115
MIAMI, FLORIDA
Phone: (305) 653-6323
FLORIDA WATS: (800) 282-9115
LAKE WORTH, FLORIDA
Phone: (305) 585-6089
JACKSONVILLE, FLORIDA
Phone: (904) 398-3739
ORLANDO, FLORIDA
Phone: (305) 678-0699
ATLANTA, GEORGIA
Phone: (404) 525-6583
GEORGIA WATS:
(800) 282-1637
SOUTHEAST WATS:
(800) 241-8752
CHARLOTTE, NORTH CAROLINA
Phone: (704) 334-5926
NORTH CAROLINA WATS:
(800) 521-3859
FT. LAUDERDALE, FLORIDA
Phone: (305) 584-2819
NEW ROCHELLE, NEW YORK
Phone: (914) 235-6925
(212) 538-7300
PHILADELPHIA, PENNSYLVANIA
Phone: (215) 233-2900
NORTHEAST WATS:
(800) 523-3397

Circle No. 146 on Reader Inquiry Card

JUNE 1986/WEEDS TREES & TURF 15
Killing weeds is easy. Unfortunately, so is harming inhabitants of the environment — no matter how unsusceptible they seem. That's why Cyanamid developed ARSENAL herbicide. Its advanced chemistry does the job on weeds. Without getting tough with nature.

WHY ARSENAL IS EASY ON THE ENVIRONMENT.

Because of its unique mode of action, ARSENAL, when used as directed, has no harmful effects on mammals, fish, bees, birds or earthworms. Because ARSENAL is non-volatile and doesn't move laterally in the soil, off-target vegetation is unaffected. ARSENAL is nonflammable. Its unique chemical activity causes a slow "brown-out" in foliage, so it poses little fire hazard. Unlike tank mixes, ARSENAL introduces only one biodegradable product into the environment. And it's applied only once during a season, resulting in a lower chemical burden and a reduction in "touch-up" treatments.

CONTROLS MORE UNDESIRABLE VEGETATION.

ARSENAL has demonstrated control of a broad spectrum of weeds, vines and brush species. Tests in southern states showed that ARSENAL alone (at a rate of two quarts per acre) out-performed several tank mixes for annual and perennial weed control. Even more impressive, ARSENAL was most effective on difficult species like johnsongrass, trumpetcreeper, kudzu and red maple.

ONE APPLICATION GIVES SEASON-LONG CONTROL.

ARSENAL gives you full-season control for up to eight months in temperate climates. It fits your spray schedule, because it can be applied at any time during the growing season. ARSENAL controls not only existing vegetation, but also new weeds that germinate after application. So you get residual control for the rest of the season. On hard-to-kill vegetation, ARSENAL keeps working on the roots until complete control is achieved. In spray solution, ARSENAL is stable for several days. That means no waste due to decomposition, and no chance of under-dosing target vegetation.

ARSENAL offers broad-spectrum control, including these tough species:

- Johnsongrass
- Trumpetcreeper
- Poison ivy
- Greenbriar
- Redvine
- Kochia
- Multiflora rose
- Dallas grass
- Bindweed
- Carduus thistle
- Foxtails
- Red maple
- Kudzu
- Sumac

DUAL ACTION CONTROLS IN A WHOLE NEW WAY.

Unlike many other herbicides, ARSENAL is absorbed through both roots and foliage to stop new plant cell growth. Vegetation absorbs ARSENAL in less than two hours, so rain won't wash off your investment. Within four hours, plant growth ceases. In perennials, ARSENAL translocates thoroughly in the roots to prevent regrowth. This unique chemistry makes the visible results of control more gradual. In some vegetation, loss of color and other outward signs may not be apparent for weeks after application. After a year or more, returning vegetation is mainly desirable annual grasses and legumes.

ARSENAL IS RIGHT FOR YOUR RIGHTS-OF-WAY.

On railroad, highway or industrial rights-of-way, around power substations, signal boxes, bridge abutments, lumber or freight yards — wherever you need annual total vegetation control, ARSENAL is the smart new choice for the job.
other wildlife when used according to labeled directions.

“(Research development specialist) Ken Rose cites a comprehensive review of university, government and Dow research on bird toxicity which was compiled by Eugene Kenaga, a now-retired Dow researcher. The report concluded that ‘chlorpyrifos (Dursban’s active ingredient) presents no significant toxicological hazard to birds under normal use conditions.’”

PESTICIDES

Badge monitors pesticide exposure

A new badge will soon help pesticide handlers monitor their exposure to the chemicals.

Robert E. Baier, a professor of bio-physics at the State University of New York at Buffalo, developed the green plastic badge, which contains a chemical that turns red upon contact with organophosphorous pesticides, such as malathion. A worker can estimate his exposure by counting the number of squares on the badge that change colors. Baier recommends the badge be worn on the wrist, since hands usually become contaminated first.

Michael & Michael Consultants Ltd. of Buffalo, will market the badges this fall. In the future, the same technology will be used to monitor the distribution of pesticides in the field and to trace pesticide contamination of water supplies.

INDUSTRY

Sandoz acquires Velsicol agrichemicals

Sandoz, Ltd. has acquired Velsicol Chemical Company’s agrichemical business from Chicago’s Farley/Northwest Industries. A new company, VS Crop Protection, has been formed as a result of the acquisition. Dale Miller, formerly vice president of Velsicol’s agricultural business group, will serve as president and chief executive officer of VS Crop Protection. The new company will employ about 300 people at its headquarters in Chicago, and another 850 worldwide.

Miller says the company’s plans lie in three areas. First is new product development, second is pursuing specific market niches and third is commitment to customers.

TURF

Disease kit aids in disease identification

Agri-Diagnostics Associates has formed an agreement with O.M. Scott & Sons Company for marketing kits which diagnose turfgrass diseases.

The kits are based on monoclonal antibody technology and use a dipstick format. The kit provides early and accurate diagnosis of pythium blight, brown patch, and dollar spot. This makes management of fungal diseases easier.

“This introduction represents a major step forward in the application of biotechnology to the diagnosis of plant diseases,” says Steve Banegas, general manager of Agri-Diagnostics. Test marketing for golf course applications began this year.

PEOPLE

Stottern succeeds Baston at GCSAA

Riley L. Stottern of Park City, Utah, is 1986 president of the Golf Course Superintendents Association of America, succeeding Eugene D. Baston of Waco, Texas.
"...The Andersons has consistently proven to Dow how effectively our Dursban® insecticides can be beneficially combined with their fertilizer formulations for double-barreled professional performance.

"There's no question that Dursban insecticides are one of the most versatile, safe, and dependable insecticides which modern chemistry has produced. The Andersons expertly incorporate Dursban into Tee Time fertilizer/insecticide combinations that also give turf pros the added benefit of simultaneous turf feeding. Now, that's effective, efficient and economical.

"What's more, The Andersons' new production facilities are computerized and state-of-the-art. That means accuracy and precision control of the formulation process which is critical to consistent product performance.

"We're confident that turf care pros looking for reliability in fertilizer/insecticide combination products can always find it in The Andersons' Tee Time products with Dursban."

David H. Naffziger, M.S.
Product Development Manager,
Dursban Insecticides
The Dow Chemical Company
Ted Pankau, Steve Ramig and Mike Hensen join Jacobsen Div. of Textron as marketing communications writer, commercial products marketing manager and internal administration manager, respectively.

E.R. (Ted) Roberts has been pro-
moted from executive vice president of Eli Lilly International Corp. to president. The 25-year Lilly veteran is a native of Wales.

John Anthony Caputo, a graduate of Idaho and Oregon State Universities, joins Seed Research of Oregon as senior agronomist.

Jim Kenservik is new traffic manager for the Oregon operations of Jacklin Seed Co. And Richard C. Dunham is new marketing manager.

Robert Bartlett Jr. is new president of the National Arborist Association. The graduate of the University of Georgia has been on the NAA Board of products marketing manager, Lawn Fertilizer Div., The Andersons. He had previously been advertising manager.

Larry Humphreys is key account senior tech rep for the Lawn Care Service Supply Group of the ProTurf Di-

Ted Pankau E.R. Roberts

John Caputo Jim Kenservik

Larry Humphreys Denny Church

Out-Perform
Everything about the new Carryall II - the body, truck bed, power and drive train, accessories - has been designed with exclusive Club Car features to enhance performance, durability, reliability and safety. The Carryall II will out-perform competitors in every category.

Out-Haul
With the largest pickup bed (50" x 50" x 11") and biggest gross payload (one-half ton) in the industry, plus a standard trailer hitch with a towing capacity of 1,000 lbs., the Carryall II becomes the most functional, practical and economi-

Out-Last
Club Car exclusives like the Rust-Free Aluminum Pickup Bed & Frame*, heavy duty front bumper and side rub rails and Double Wall Pickup Bed Construction* of lightweight durable alumi-

Out-Pull
Club Car's 4 Cycle/341 cc Engine*, the largest in the industry, gives the Carryall II the power to haul ½ ton loads without stress and vibrations.