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you're something
special
and you'll find
the NEW Lockwood-Hardie sprayers are too!

Maintenance — management — control — supervision —
familiar words in your fast and furious field of work.

When the time comes to buy that new sprayer — stop
and consider what are your special needs. First, you'll
want a sprayer that's dependable to operate—it works . . .
does your spraying fast and efficiently. Next, you'll want
it to be simple (gives top performance with little main-
tenance). Then, think about the type of local service you'll
get — including cost, availability of parts and repair time.

After you've thought about the kind of sprayer you need,
you ought to see it demonstrated. One sprayer meets
all these requirements today and is available now in a
Lockwood-Hardie sprayer. Hardie is a familiar name in
sprayers. Lockwood is known for its line of specialized
farm equipment that it's been building for 40 years.

Check out the many Lockwood-Hardie all purpose utility
sprayers designed especially for weed and brush control,
for special cleaning and disinfecting, for turf and shade
trees and for estate, municipal and golf course spraying.
You name it and we have it in a sprayer!

- Stainless steel tanks standard equipment.
- Air cooled engines; 12-volt or recoil start.
- Choice of tank size and attachments.
- Choice of axles and tire size.
- Mechanical agitation of chemicals and water.
- Nine models and many options to choose from.

We think you're something special. We think the newly
engineered line of Lockwood-Hardie sprayers are too.

Call collect (AC 308-436-5051) for more information on
the type of utility sprayer you need and the name of
your nearest dealer. Insist on a free demonstration. Then
make a deal. (A limited number of dealerships are still
available: write or call for details.)

Lockwood Corporation • Gering, Nebraska 69341

For More Details Circle (149) on Reply Card
Gypsy Moth Restricted List
Increased By 34 Counties

An early January order by USDA has added 34 counties in Maryland, Pennsylvania and New York to the list of those under Federal regulation for Gypsy Moth.

Animal and Plant Health Inspection Service (APHIS) officials said the action resulted from a thorough evaluation of an intensive trapping program conducted last year. Restrictions cover the movement from regulated areas of nursery stock, stone and quarry products and wood timber articles. In addition, mobile homes and recreational vehicles being moved from campgrounds designated as "hazardous" for Gypsy Moth are also restricted.

The counties involved are:
Maryland—Harford and Washington.
Pennsylvania — Bedford, Blair, Cambria, Cameron, Clearfield, Elk, Franklin, Fulton, Huntingdon, Indiana, Jefferson, McLean, Potter, Somerset and Tioga.

Conn. Grounds Maintenance Managers To Meet March 7

Commercial and professional grounds maintenance managers of residential, industrial and recreational areas in Connecticut will meet March 7 in Cheshire, Conn. for a Grounds Maintenance Conference. The event is sponsored by the Southern Connecticut Grounds Keepers Association, Inc. and the University of Connecticut cooperative extension service.

Meeting in the Waverly Inn, delegates to the one day session will learn about new ideas, recent discoveries in research and practical recommendations as they apply to trees, shrubs and turf.

Featured on the program will be discussions of environmental protection in managing natural resources, care and maintenance of shrubs, cutting costs in turfgrass management and others.

Persons interested in attending the conference are required to pre-register by February 26. Checks for $10 per person should be sent to Mrs. John V. Angelone, Secretary, 930 Peck Lane, Cheshire, Conn. 06410.

Melnor Industries Names Rawitscher Sales Manager

Stuart Rawitscher, formerly district manager, Rain Bird National Sales Corporation, has been named national sales manager of Melnor Industries, Turf Irrigation Division. Rawitscher will operate from Turf Irrigation Division main manufacturing facility and administrative headquarters in Moonachie, New Jersey.

Md. Nurseryman Day Slated February 14

The annual Maryland Nurserymen's Day will be held at the University of Maryland, College Park, Md. on Wednesday, February 14, 1973.

This meeting is sponsored jointly by the Maryland Nurserymen's Association and the Department of Horticulture of the University and will be held in the Center of Adult Education on the College Park, Campus. Registration $8.00 (Lunch included).

"EVER-GREEN" TURF IRRIGATION VALVE BOX COVERS...

Golf courses, estates, parks, cemeteries, private clubs, landscaped lawns—why put up with ugly concrete or rusty cast iron turf irrigation valve box covers? Now you can have green covers that blend beautifully with the turf. And they're made of tough SUPERFLEXON® thermoplastic that lasts and lasts. Thermoplastic valve and meter boxes are resistant to moisture, and unaffected by temperature changes. They're also less brittle than concrete or cast iron... and much lighter, easier to install and to store. And they cost less! Thousands are in use from coast-to-coast—Philadelphia, Pa. to Sunnyvale, California.

Thermoplastic turf irrigation valve boxes with "ever-green" covers offer a new dimension in appearance as well as utility.

For complete details, write: AMETEK, INC., Plymouth Plastics Division, 502 Indiana Avenue, Sheboygan, Wisconsin 53081.

G O U N N O T I C E D

...other advantages are more obvious!

Golf courses, estates, parks, cemeteries, private clubs, landscaped lawns—why put up with ugly concrete or rusty cast iron turf irrigation valve box covers? Now you can have green covers that blend beautifully with the turf. And they're made of tough SUPERFLEXON® thermoplastic that lasts and lasts. Thermoplastic valve and meter boxes are resistant to moisture, and unaffected by temperature changes. They're also less brittle than concrete or cast iron... and much lighter, easier to install and to store. And they cost less! Thousands are in use from coast-to-coast—Philadelphia, Pa. to Sunnyvale, California.

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For complete details, write: AMETEK, INC., Plymouth Plastics Division, 502 Indiana Avenue, Sheboygan, Wisconsin 53081.

AMETEK / Plymouth Plastics
Compact, low-slung Ford LCG tractors give you extra low-center-of-gravity...just 21 3/4 inches above ground...for hill-hugging stability. Weight is well distributed front and rear for easy handling and maneuvering under all conditions. Add optional low-pressure tires for increased flotation and you'll know why Ford LCG's are the number one choice for work on fine turf.

and growth conditions with a choice of four mowing speeds ranging from 3.4 to 6.9 mph. Or choose power-shift 10-speed, or cost-saving 6-speed transmission (2110 only).

Ford 3-point hitch with "live" hydraulics provides quick, responsive control over rear equipment. One convenient lever on the quadrant with an adjustable stop lets your operator raise, lower, adjust equipment on-the-go, for faster lawn maintenance and lawn renovation work.

Follow the contour. Optional rocker arm—flexible hitch linkage—lets mounted mowers follow changing ground contour. This prevents scalping.

Get the real low-down with Ford LCG tractors in three power sizes: 31.9, 38.3 and 52 PTO horsepower. Gas or diesel. Your Ford industrial tractor and equipment dealer is listed in the Yellow Pages under "Tractors" or "Contractor's-Equipment." See him for information on how to buy, lease, rent or finance.

NUMBER ONE ON WHEELS AND GROWING

FORD TRACTOR

Dual-range 8-speed transmission lets you match your ground...
Urban Pesticide Clinics
Scheduled In Illinois

A series of Urban Pesticide Clinics are scheduled at nine locations in Illinois. They are sponsored jointly by the University of Illinois cooperative extension service, the Natural History Survey and the Illinois department of agriculture.

The dates and locations are: Feb. 26, Rantoul, Redwood Inn; Feb. 27, Springfield, Heritage House, Rt. 66 South; Feb. 28, Belleville, Augustines, Rt. 460 and Rt. 158; March 1, Marion, Holiday Inn, I-57 and Rt. 13; March 5, Peoria, Heritage House, Rt. 88 North; March 6, Rock Island, Deere and Co., Admin. Center; March 7, LaSalle, Holiday Inn, I-80 and Rt. 51; March 8, Rockford, Holiday Inn, Rt. 51 South; and March 15, Arlington Heights, Arlington Towers.

Registration for each meeting will begin at 9-30 a.m. Meetings will adjourn about 3 p.m.


The 1973 clinics will be geared to "small package" and garden chemical dealers. The clinics will also include topics of interest to custom applicators who apply environmental protection chemicals to trees, shrubs and lawn areas.

Representatives of the Illinois Department of Agriculture, division of plant industry, will discuss the Illinois Custom Spray Applicators Licensing Law and administer examinations for custom spray operators licenses at the end of each meeting.

7 Year Service Parts Program
Started By Toro Company

The Irrigation Division of The Toro Company has instituted a new, exclusive seven-year service parts program for major components of the valve-in-head rotary sprinklers used in its institutional irrigation systems.

The new program, which is in addition to Toro’s regular one-year full replacement warranty on all other components, calls for a seven-year sliding scale coverage against defects in material or workmanship on the spring-retracted drive and valve assemblies of the 630, 650 and 690 series geared head sprinklers manufactured and dated after August 1, 1972.

The program provides for a pro-rata reduction in replacement cost, based upon the length of use and the suggested list price for the component to be replaced at time of replacement.

National Arborist Assn.
To Meet In Scottsdale, Ariz.

Professional arborists will be gathering at the Mountain Shadows in Scottsdale, Arizona, for the thirty-fifth annual meeting of the National Arborists Association on February 18-22, 1973.

In addition to the education program, a specialized trade exhibit has been assembled for the review of this most specialized market of professional services. Meeting delegates will be able to view equipment and learn of new developments in the field of arboriculture all designed for the professional practitioner in the industry.

Telsco Weather-Matic Dealers
Vie For Hawaiian Holiday

"Sell Away to Hawaii" is the theme of Telsco Weather-matic’s 1974 National Sales Conference and Incentive Program.

According to Charles Putnam, national sales manager for the Dallas-based turf irrigation equipment manufacturer, the incentive program will culminate in the National Sales Conference, to be held in Honolulu, Hawaii in February, 1974.

Dealers and distributors will participate in the program, which is designed to help them earn their trip expenses for the National Sales Conference, as well as to increase over-all sales volume for the company.

Specs At A Glance
With New IH Folder

A new three-fold, pocket-size folder provides specifications at a glance on International industrial equipment. The folder includes specs on the crawler, wheel and integral tractors, hydraulic excavators, forklifts and pay loggers. Safety features, including latest information on factory or field-installed rollover protective structures, are discussed. For more details on the folder, circle (720) on the reply card.
HELP WANTED

GREAT OPPORTUNITY FOR THE MAN WHO LIKES TO BE HIS OWN BOSS!

National leader in tree service, operating from Maine to Florida, offers excellent opportunity in sales and management. Ability to work with public and personnel is important. Must be experienced in tree work or horticulture. Excellent starting salary, expenses and fringe benefits. Intensive training course and outstanding growth potential. Send resume of experience or educational background to:

WILLIAM ECKHART
BARTLETT TREE EXPERTS
2770 Summer Street, Stamford, Conn. 06905

HELP WANTED: SHADING TREE SERVICE company in northeast—looking for aggressive and experienced salesman. Starting pay commensurate with experience, education, and ability. Can be made in sales paid on present commission or college earned. Company car furnished: pension plan; paid hospitalization, excellent benefit. Send resume (with current annual sales and earnings) to Box 133, Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

DISTRIBUTORS for D. J. Andrews, Inc. Stump cutter teeth, pockets, and bolts. Best wholesale and retail price in U.S.A. Add to this exclusive area, local advertising at our expense, etc., to improve his existing position. Weekly top salary, commission plan, paid Blue Cross — Blue Shield and an interesting incentive compensation plan.

MR. R. M. MICHIA
MORNOE TREE & LANDSCAPE, INC.
225 Ballantyne Rd. — Rochester, N.Y. 14623
Phone 716 436-2900

EXPANDING TREE SERVICE company in northeast—looking for aggressive and experienced salesman. Starting pay commensurate with experience, education, and ability. Can be made in sales paid on present commission or college earned. Company car furnished: pension plan; paid hospitalization, excellent benefit. Send resume (with current annual sales and earnings) to Box 133, Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.


POSITION WANTED: CONSULTANT TREE SERVICE—LOOK FOR PARTNER TO HELP WITH BUSINESS OPPORTUNITIES. WILLING TO WORK FULL OR PART-TIME. KEEP IN TOUCH. Phone 203 971-3998.

FEEDS
SOD QUALITY MERION SEED for discriminating growers. Also Fylking, Delta, Park, Newport, Nugget and Pennington bluegrasses as fine as fescues. We will custom mix to your specifications. Pennington Seed Company, Grand Ledge, Michigan 48837. Phone 517 627-2164.

CROWNVETCH SEED: Penngift and Chemung varieties. Direct all inquiries to: Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

MISCELLANEOUS

COUNTY RENTALS: 1000 Acre—EOY. Water, 500 hp. Harvester, 30' harrows, 15' squeezer, wheel roll irrigation, 30 Massey-Ferguson tractors, trucks and crop. $25/month. Phone 703 971-3998.


EDUCATION-BOOKS

LEARN AUTOMATIC IRRIGATION—Complete self-taught course and reference material on fundamentals of design, operation, maintenance, installation, piping, equipment. Latest developments in automatic turf and landscape irrigation. New Edition now only $49.50 postpaid. California add tax. Send check, order or request for free outline. Larson Company, Box 11443, Santa Barbara, Calif. 93103.

BUSINESS OPPORTUNITIES

UNDERSTANDING PESTICIDES is a new brochure published by the National Agricultural Chemicals Association. Coming at a time when the nation has passed through several years of environmental debate on chemical protectants, the brochure quickly points to the new "common sense" approach now in vogue. It reviews pesticide industry research. Other topics include pests and pesticides; how chemical protectants work; the government's role; food at acceptable prices; and, the future. Here's an interesting brochure that puts it all together for easy understanding. Write: National Agricultural Chemicals Association, 1155 Fifteenth Street, N.W., Washington, D. C. 20005.

SOME OF THE TREES in Washington, D. C. will be without birds and bird residues for about four months. That's just the way the presidential inaugural committee wanted it. They hired Frank and Joseph Fink of National Bird Control Laboratories, Inc., Skokie, Ill. to make sure the parade route for the recent inauguration would be free of starlings for at least one day. Fink treated the trees with a repellent he developed. He said that it (repellent) gives the birds "a type of hot foot" when they land in the trees. The repellent is non-toxic.

SPEAKING OF TREATMENT, the U.S. Department of Agriculture now reports newly developed treatments to make mattress covers and fillers fire retardant. The methods used inhibit cigarettes from igniting mattresses. It's a violation to smoke in bed, anyway. One method involved coating the back of the mattress ticking with a polymer capable of dissipating heat. Another method involved treating the cotton batting mattress filler with boron or phosphorus containing compounds to make it flame and smolder resistant. The coating is designed to form a shield to prevent the batting from reaching 750°—the temperature at which batting begins to smolder.

DON'T LET YOUR HIGH SCHOOL FOOTBALL HERO ON ARTIFICIAL TURF! That's the word from Karl Klein, University of Texas researcher. He's found that the younger player and his knee, in terms of strength and ligament, are "just not ready for the added traction and speed that can be produced on such surfaces." Klein compared the development of the high school athlete's knee with that of the average college player. He found that the strength relationship between the quadriceps (group of muscles in front of the leg responsible for knee joint support) and the hamstrings (on the back of the leg) is 2:1 in the high school athlete and 10:6 in the average college varsity player. This difference, although not large, is responsible for increased accidents in the younger player.

PINE TUSSOCK MOTH destruction on the west coast may be second only to Gypsy Moth on the east coast. Estimates of nearly 200 million board feet of fir lumber were ruined by this pest last year near La Grande, Oregon. Untold thousands of stately fir trees turned a rusty brown early in the summer. Like the pines in the eastern states, when the green needles go, you can kiss the fir tree goodbye.

"ALL OF US ARE FOR HEALTH AND SAFETY" says Congressman Wilmer Mizell (R-North Carolina), "but I think you can have health and safety without some of these ridiculous requirements which are coming down. I understand the regulations on the Occupational Safety and Health Act have grown to about 50 feet high right now. It always seems to happen when the I's aren't dotted and the T's not crossed in the regulations. It's the result of bureaucratic regulations that have been handed down and many times you have men writing them who have little practical experience in the field. Hopefully, the Congress will be looking at these regulations and try to offer guidance through legislation and restore some reason."

GENE FROSETH has turned to the Green Industry and the result is an increase in his custom application business. Previously he applied chemicals to cropland, only. Now he sprays 192 miles of roadside near Garretson, South Dakota for profit. His highway rights-of-way spraying fits nicely between early crop sprays and later post-sprays. Another benefit from roadside spraying is that farmers get to know you. It has opened up a lot of new business for us, says Froseth.

THE ACTION ARMY has invaded the Green Industry, or so it seems. Check the latest ad for the Army Reserve in the news media and it shows an infra-red aerial photo of elm trees in Denver, Colorado. The army is working to spot Dutch Elm Disease with modern photographic methods. If you want to stay in the Green Industry but have a military obligation, the Army can work out the details.

INNER CITY ENVIRONMENT IS AS TOUGH on trees as it is on people, according to Russell J. Seibert, director of Longwood Gardens, Kennett Square, Pa. He proposes that city trees should be selected from "...nurseries in the inner cities—not out in the country." The objective is to find out which plants do best under adverse conditions. Trees grown away from city pollutants are subjected to tremendous stresses when brought to the city. Many may not make it.

Natural Antibiotics Help Fight Tree Decay

Michigan State University plant doctors have been trying to find why some injured trees can resist diseases caused by invading germs while others are susceptible.

According to MSU plant pathologist Dr. John Hart, the non-living wood (heartwood) in the center of the trunk and limbs often shows greater resistance to fungi and other wood-attacking organisms than does the living portion (sapwood). Also, some tree species show more resistance to sapwood injury than other species.

By locally injuring sapwood portions of trees, Hart has been able to compare decay resistance between different tree species and obtain a better understanding of the resistance mechanism. "These experiments showed that resistance to invasion by disease organisms is related to change in the sapwood cells located next to the injury," says Hart.

He and his colleagues also found that the changes occurring near an injury are similar to the events that occur during heartwood formation. "As the cells break down and die, certain chemicals are formed. Some of these chemicals act as antibiotics and prevent disease organisms from getting a foothold in the tree," says the plant pathologist.

"Now we would like to study how the living cells produce these natural antibiotics and how the presence of disease organisms changes the development of these compounds," says Hart.
And the green grass grows all around

Anyone can show you lush, green grass—on someone else's course. Rain Bird shows you the exclusive features of our Pop-up Sprinkler, Model 51, that let you grow your own. For instance...

The highest pop of any sprinkler (2-5/16”). Grass can't distort the distribution pattern. You get uniform growth—no dry rings or wet spots.

Special nozzle features assure a tight, wind-resistant stream for longer throw and equally efficient close-in watering without puddling. That means even growth throughout a greater area.

Positive retraction spring prevents heads from sticking up—a hazard to mowers and sprinkler heads. There's no danger of missed waterings or cuttings.

Positive seal features mean maximum pressure through the nozzles—with easy accessibility of parts promoting faithful maintenance.

Don't settle for pretty pictures. With Rain Bird at work, you can see all the lush, green grass you like. It grows all around—all around your course.

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