

**PUBLIC USE GAINS
PUBLIC SUPPORT**

Besides developing brush control programs that do the job without raising the public's concern, Public Service Co. of New Hampshire has gained additional community support by encouraging people to take advantage of its rights-of-way.

Some people in the State such as farmers and hunters need little encouragement. They already appreciate the open land for pastures, game and fun. But, for others as well, the Company has taken positive steps toward creating multi-purpose rights-of-way.

**CHRISTMAS TREES ON
RIGHTS-OF-WAY**

One program encourages easement landowners to raise Christmas trees under transmission lines. It's a co-operative venture with participation by the landowner, the Company and the New England Forestry Foundation.

The landowner simply signs an agreement to maintain that section of land for the cultivation of trees in return for the Company's agreement to help raise the trees. New England Forestry Foundation agents manage the entire operation. They provide tips on spraying, cultivating, harvesting and marketing trees.

By encouraging and establishing a Christmas tree management program, the Company practically eliminates right-of-way maintenance and adds to their scenic quality. But, the big plus is in neighbor relations. Landowners are realizing a profit they never had. Of the 700 acres of easement land now in trees, most will yield about \$1,000 per acre (about \$1 per tree) when trees attain Christmas size of six to eight feet in anywhere from five to ten years.

Establishment of public recreation areas is yet another attempt to minimize the impact of electric power lines on the landscape. So far Public Service Co. of New Hampshire has three such areas, including a boat launching facility where lines traverse a great spot for fishing. Picnicking, hiking and horse back riding draw most people to the other two right-of-way "public parks."

But, public access is not without problems, one of which is increase in trash. That's why all of Public Services' present recreational areas are located near stations where manpower is available to supervise and patrol the facilities. Regardless of potential problems in such sites, public appeal and support far outweighs the problem of public indignation. □

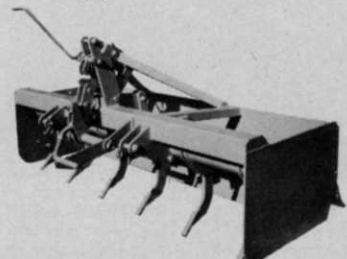


These box scrapers mean business!

All ten models are built to move heavy loads quickly with minimum power and effort. Curved blades cut and roll soil into maximum loads. Lifting mechanism and scarifier assemblies are designed with higher front end clearance for larger intakes. The exclusive structural design of all Servis deluxe box scrapers provides direct support from the draw link connection to the rear moldboard to prevent warping or bending. See your dealer for the Servis box scraper that best fits your requirements . . . and make fast, easy work of all future soil moving jobs!



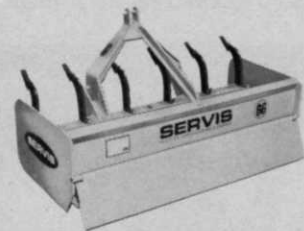
HYDRAULIC models (66", 72", and 84") feature a positive mechanical lock to eliminate any stress on the cylinder, even when scarifiers are cutting the toughest ground.



AUTOMATIC LIFT-TRIP models (66" and 72") feature scarifiers that automatically lift and lock when the box is raised. Trip lever drops teeth back into cutting position.



HAND-LIFT models (66", 72", and 84") have manually-operated hand-lift control which easily raises, locks, and disengages scarifier teeth. Highly responsive.



SECO, JR. models (66" and 72") are popular with operators who do not usually require scarifier teeth for their routine work. Optional teeth can be positioned manually in UP or DOWN position.



SERVIS EQUIPMENT COMPANY
1000 Singleton Box 1590 Dallas, Texas 75221

WT4

Please send product literature on: HYDRAULIC SCRAPER LIFT-TRIP SCRAPER
 HAND-LIFT SCRAPER SECO, JR. SCRAPER

Also, please send me the name of my nearest authorized SERVIS dealer.

Name _____ Student?

Address _____ Telephone _____

City _____ State _____ Zip _____

Green Industry Newsmakers

PEOPLE PLACES EVENTS



Joseph Welker, Duval Landscape Company, Jacksonville, Fla. has been named by Doyle Connor, Florida Commissioner of Agriculture to the Florida Agricultural Advisory Council and the Plant Industry Technical Council. He is immediate past president of the Florida Nurserymen and Growers Association.



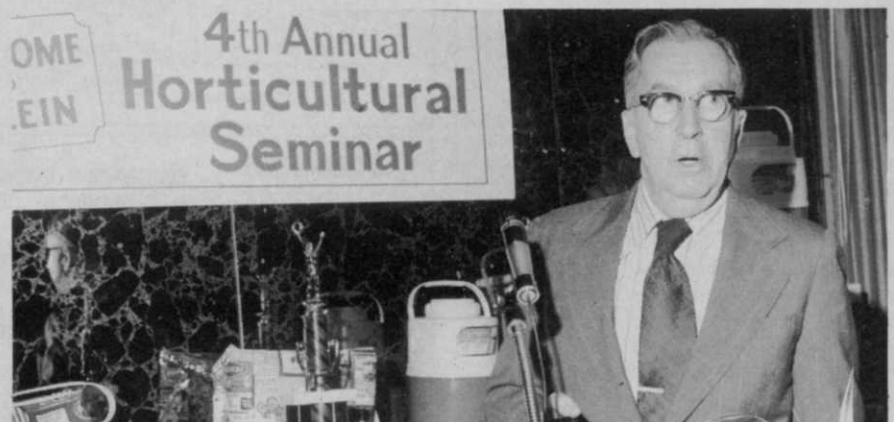
James Munn (l), general manager of Otis Town & Turf, Otis Elevator Company, congratulates Charles Lapaca (c) of Kenyon Sales Co., Ft. Lauderdale, Fla. upon receiving the Dealer of the Year award. Denver Brown, sales manager of Otis Town & Turf, look on from right.



Newly named Fellows of the Weed Science Society of America are: (l-r) Dr. E. K. Alban, Ohio State University; Dr. W. R. Furtick, Oregon State University on leave to the United Nations; Dr. R. Behrens, University of Minnesota and, Dr. Glenn C. Klingman, Elanco Products Co., Indianapolis.



Robert Ench, (l) president, Flower Time, Inc. presents a plaque inscribed "Best New Product of 1972" to Bob Gioscia of J. & L. Adikes, Jamaica, N.Y. According to Ench, Adelphi Kentucky bluegrass literally "walked off the shelf" last year. Demand was strong for this new variety.



Bud Harrison, home horticultural specialist at Rutgers University spoke to sales personnel during the 4th annual Horticultural Seminar conducted by S. Klein for its environmental center staff personnel.

**FOR MORE FACTS
USE THE
POSTAGE FREE CARD**

You are invited to use the Reader Service card provided to obtain further information on equipment, materials or supplies appearing in this issue. This card is preaddressed and postage paid.

Your inquiry will be forwarded to the manufacturers in whose products you are interested.

**ART EDWARDS
PUBLISHER**

**FOR MORE FACTS
USE THE
POSTAGE FREE CARD**

You are invited to use the Reader Service card provided to obtain further information on equipment, materials or supplies appearing in this issue. This card is preaddressed and postage paid.

Your inquiry will be forwarded to the manufacturers in whose products you are interested.

**ART EDWARDS
PUBLISHER**

Weather-matic turf irrigation components are higher quality and cost a little more.



Therefore, a Weather-matic System costs more than another system. Right?

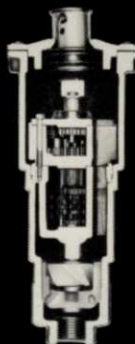
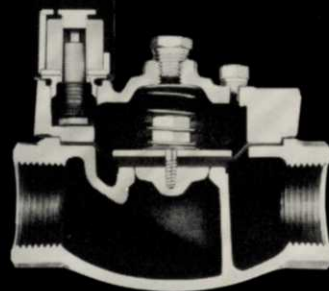


Not necessarily.

You see, in a commercial or industrial application, with Weather-matic's superior design capabilities, fewer components may be required for optimum performance. That means you get higher quality, a better functioning system — and a lower total cost.

So, you don't always get what you pay for. Sometimes you get more.

For additional information on Weather-matic irrigation systems, write or call:



Weather matic

LAWN AND TURF SPRINKLER SYSTEMS
P. O. Box 18205 / Dallas, Texas 75218 / (214) 278-6131



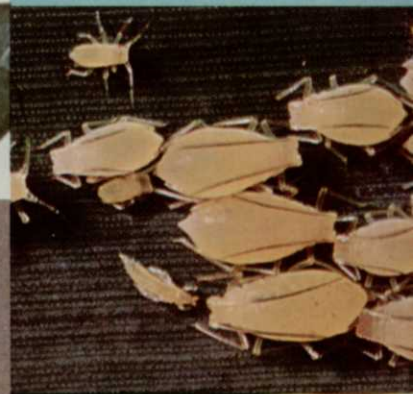
Silverfish



Sowbug



Birch Leaf Miners



Mosquito



Ant



Tent Caterpillars



1973 will be a bad year for bugs.

Bad for bugs of turf and ornamental plants. And bad for household and structural bugs. Because Dow has a pair of insecticides that will make their lives miserable. There's ZECTRAN* insecticide, a general use biodegradable insect killer that works on almost all major foliage-feeding insect pests—even the hard-to-kill kinds. Use ZECTRAN on over 600 different flowers, ground covers, trees, shrubs and turf. And then there's DURSBAN* insecticide. Its effectiveness, economy, non-phytotoxicity and biodegradability make it the choice of professional turf men for golf greens, turf farms, home and



Looper



Spider



Grasshopper



Aphids



Whiteflies



Cockroach



Cutworm



Hairy Chinch Bug



Bagworms



Mealybugs



Leafhopper

Ag-Organics Department, Midland, Michigan 48640

industrial lawns—or wherever grass and ornamentals are grown. It's especially effective to control the hairy chinch bug and sod webworm. DURSBAN insecticide is also preferred by PCO's for controlling household and structural pests—especially resistant roaches that laugh at other sprays. Please remember to read and observe all precautions on the product label. Bugs, get ready for 1973!

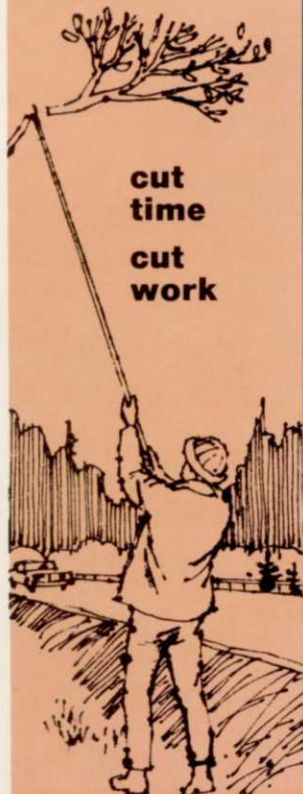
*Trademark of The Dow Chemical Company



DOW CHEMICAL U.S.A.

For More Details Circle (129) on Reply Card

Ackley hydraulic powered tools



Ackley tools put you in complete control of big gardening/landscaping jobs. Deliver plenty of power for cutting, clipping, pruning, sawing.

New Ackley Swivel Pruner (illustrated) is designed for fine pruning on new wood or young trees. Gives you the cutting angle you need instantly. Lightweight hook. 360° swivel handle for hard-to-reach areas. 3 to 5 foot lengths.

Need more help? Check with Ackley for pistol-grip chain saws, pole chain saws, pole circle saws and additional pruners. Farm or garden tractor provides the hydraulic power source.

For more information/literature, call Harold DePue, Sales Manager, (503) 659-5660. Or write:

ACKLEY MANUFACTURING CO.
13770 S.E. Ambler Road
Clackamas, Oregon 97015 Dept. 343



This light-weight unlined glove is available with enough gauntlet to protect the wrist area but flexible enough to allow freedom of finger movement. Cost is less than heavier grade gloves which are less comfortable to wear.

PROTECTION FROM EXPOSURE (from page 12)

dermatitis.

Most herbicides are also generally less toxic than other types of pesticides. A dinitro compound (dinitro-cresol) used for weed control for many years has caused illnesses of workers in Europe. In contrast, our exposure studies have indicated that under the conditions of use in the Pacific Northwest area of this country there is no significant hazard associated with the application of dinitro compounds for weed control. This conclusion has been corroborated by use experience.

One herbicide, paraquat, is of considerable interest because only a very small oral dose may produce irreversible lung fibrosis which usually leads to death. There is little if any response to antidotal procedures. Although many of the recorded deaths from paraquat have been due to voluntary ingestion with suicidal intent, there have been deaths following accidental ingestion of very small amounts of the liquid concentrate. In one case it was estimated that the quantity of fluid consumed could not have exceeded three quarters of a teaspoon. This compound is also somewhat caustic and may cause chemical damage to the eyes.

This emphasizes the importance of avoiding splashing the concentrate into the mouth or eyes during measuring and mixing operations.

Although illnesses resulting from overexposure to pesticide compounds

do occur among applicators and other workers, most are a result of carelessness or accident. Experience has shown that if proper precautionary measures are observed and directions on the pesticide label are followed, even the more toxic compounds can be used safely.

The best insurance against illness from pesticides is to protect the various routes of entry into the body. There are three main routes: dermal, respiratory, and oral.

Dermal Route

Absorption through the skin is the most important route of entry of pesticide into the body during most exposure situations, especially where liquid sprays and emulsifiable concentrate formulations are involved. This route is one that has undoubtedly been responsible for a great many poisonings of workers, especially from the more toxic organophosphorus compounds.

We have conducted exposure studies on several hundred pesticide applicators. *Our results indicate that over 97% of the pesticide to which the body is subjected during most exposure situations, and especially to applicators of liquid sprays, is deposited on the skin.*

It should be understood that any given amount of pesticide is more rapidly and more completely absorbed by the oral or respiratory routes. However, absorption of pesticides by these two routes is probably

TELL ME MORE

This page is provided for your convenience. To obtain additional information on new products, trade literature and advertised products in this issue, simply circle the corresponding number on the perforated card below, fill in your name, business address and mail the card. No postage is required.

FOR MORE INFORMATION FILL OUT AND MAIL TODAY!

ADVERTISED PRODUCTS

101	102	103	104	105	106	107	108	109
110	111	112	113	114	115	116	117	118
119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136
137	138	139	140	141	142	143	144	145
146	147	148	149	150	151	152	153	154
155	156	157	158	159	160	161	162	163
164	165	166	167	168	169	170	171	172
173	174	175	176	177	178	179	180	181
182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199

NEW PRODUCTS

700	701	702	703	704	705	706	707	708
709	710	711	712	713	714	715	716	717
718	719	720	721	722	723	724	725	726
727	728	729	730	731	732	733	734	735
736	737	738	739	740	741	742	743	744

Please send more information on items circled

(Please type or print)

4/73

Name

Position

Company

Street

City

State Zip Code

Signature

Please describe your type of business

Note Inquiries serviced until June 20, 1973

Use this convenient card if you wish to receive further information on products and services advertised or described in this issue.



BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

FIRST CLASS

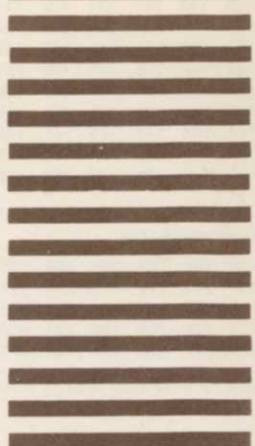
PERMIT NO. 665

DULUTH, MINNESOTA

postage will be paid by

**WEEDS
TREES
and TURF**

POST OFFICE BOX 6049
DULUTH, MINNESOTA 55806



too small a fraction of the total potential exposure to be considered the main factor in most poisoning cases of workers in the field.

Although the rate of absorption of different pesticide compounds through human skin is difficult to measure with any degree of accuracy, researchers have made some progress along that line. Using radioactive labeled pesticides, Maibach and co-workers at the University of California School of Medicine were able to determine approximately what fraction of an applied dose would be absorbed. They were not only able to compare degree of dermal absorption for certain pesticides but also they compared absorption of a single pesticide for different parts of the human body. The results obtained indicate that in the past sufficient importance may not have been attached to protection of certain body areas.

In checking dermal penetration of parathion at different body areas these researchers found that the area of greatest absorption on man is the scrotum where approximately 100% of an applied dose was absorbed. The possibility of pesticide on this body area being completely absorbed emphasizes the need for increased

concern about providing protection for the area. This is of utmost importance where spillage of highly toxic pesticides, and especially the liquid concentrate formulations, is concerned.

The head-neck area was found to be an area of greater absorption than the arms or hands.

Of particular interest was the finding that absorption in the ear canal is relatively efficient (46.6% of an applied dose of parathion). Exposure in this area could occur through drift of fine pesticide mists or dusts or by digging in the ear with the tip of a contaminated finger.

When pesticide application is by hand spray gun on target areas below waist level the area of greatest potential contamination from drift may be the lower trunk, legs, and feet. Cloth coveralls or trousers provide a reasonable amount of protection for most of these areas in work situations where contamination does not easily penetrate clothing. However, where there is chance of soaking by continued contact with liquid sprays or penetration of clothing through excessive contact with dry pesticides, waterproof trousers and boots provide the best protection. *In fact, we feel that waterproof*

footgear should be worn during most any type of pesticide application. They should be washed and dried thoroughly, inside and out, as frequently as needed to remove any contamination.

If application involves directing spray upward, the downward drift can often produce relatively high dermal and respiratory exposure. The best protection of the face-neck area from downward drift is afforded by the wearing of a waterproof wide-brimmed hat. This also reduces respiratory exposure to some extent by preventing small droplets or particles from getting near the nose where they may be drawn into the nasal orifice.

Protection of the upper trunk and arms is especially important where heavy spray drift may thoroughly wet cloth shirts, coveralls, and underclothing. A waterproof jacket or raincoat provides the best protection for this general body area.

Waterproof gear is usually worn during cooler conditions, but as the temperature rises and the clothing becomes unbearably hot to wear, workers tend to discard them and work with much less protection — perhaps only a short-sleeved, T-
(continued on page 52)



Certain-teed makes the 2nd best irrigation system you can get.

First best, we'll admit, is a good soaking rain. But an underground system using Certain-teed PVC pipe comes in second to nothing else.

Economy. The overall installation cost is less. Lightweight PVC requires no special handling machinery. Joints are quickly and easily made. You get a choice of FLUID-TITETTM double-gasket joints, or deep-socket, solvent-weld joints. Fast installation saves money.

No maintenance worries. In the ground, PVC pipe is inert. It won't corrode, rot, or rust. Joints don't leak. And non-metallic PVC never needs protection against electrolytic action.

More water for less pressure. Smoothbore PVC is free of bumps

and other obstructions that could hinder water flow.

Pays for itself quickly. Because you spend less to install it, and practically nothing to maintain it. And you save because one man can easily handle a PVC system.

Get it all from your Certain-teed distributor. Including PVC fittings and all the expert supervision you need. If keeping the turf watered and green is your responsibility, specify Certain-teed PVC. You'll never have a big tournament called for lack of rain. For complete information, write: Certain-teed Pipe & Plastics Group, Valley Forge, Pa. 19481.

Pipe & Plastics
CERTAINTEED Group



Takes Years To Grow 'em, Minutes To Move 'em With Vermeer Tree Spades



Truck-mounted TS-66T Tree Spade—A high production unit with the extra advantage of single unit mobility. Digs tree ball 66" in diameter, 48" deep. Requires absolutely no hand labor. Hydraulic controls position its high tensile steel spades.

For More Details Circle (120) on Reply Card

Take The Diggin' Dutchman's big Model TS-66T, for example. Automatically digs, balls, transports and transplants large 6" diameter trees in minutes. Saves you thousands of dollars annually because it runs on a tankful of gas, not a handful of paychecks. One man and one machine can handle the entire job . . . without the expense and labor found in conventional tree moving operations. Used by land developers, landscapers, municipalities, real estate and tree service firms everywhere. Put it to work on your tree moving-planting projects. Write The Diggin' Dutchman today or, better yet, call him (515/628-3141) NOW for a FREE demonstration of any of six Vermeer Tree Spades. Vermeer Mfg. Co., 7204 New Sharon Road, Pella, Iowa 50219.

THE DIGGIN' DUTCHMAN

VERMEER TREE EQUIPMENT DIVISION



ARBORIST SHOP TALK

By Hank Harvey Jr.
Rutledge, Pennsylvania

Tree Feeding

Every year thousands of trees die of malnutrition! Yet tree fertilization continues to be one of the most neglected facets of the arboriculture industry, even though it is certainly one of the most important considerations of tree care in general. And, to the commercial tree service contractor, tree feeding has got to be one of the most lucrative operations of his business. The labor required to do the jobs does not have to be skilled, and the margin of profit is great.

When you get right down to it, there is nothing you can do for your customers' trees that is more beneficial overall than feeding them. Any living thing is better able to resist disease and withstand injury when it is in vigorous condition. A tree's natural resistance can often ward off mild disease infections and enable it to recover from insects, storm damage, and/or drought if it is in a healthy condition. Most of your customers don't realize this, so it is up to you, the professional, so inform him. It is for his own benefit as well as yours.

There are several different methods of tree feeding employed by professional arborists. Probably the most well known and most popular method is the dry-fertilizer-in-the-ground technique. This method requires only a bag of tree fertilizer (usually a 10-6-4 mixture), a funnel and a punch bar or earth auger to make the 12" to 24" deep holes or "cores" in the ground. They are made in concentric rings around the tree trunk (no closer to the tree than three to four ft.) and usually not further out than the drip line of the branches. The holes

are filled to about 2" from the top to prevent "burning" the grass roots.

Another popular way to feed trees is the liquid-forced-into-the-ground under pressure method. This can be done by means of just a garden hose and a Ross-Root Feeder type of feeding needle that can be purchased with its own nutrient cartridges. However, many professionals prefer to use a more sophisticated, higher pressure system which uses a pressure spraying unit. They mix their own soluble fertilizer and inject it into the soil at about 250 psi pressure. The higher pressure is faster than low pressure and forces the liquid into a wider saturation area initially. It also gives the commercial operator an additional use for his power sprayer.

There are other methods of tree fertilization now being used. One is systemic injection (Mauget) via injector cups and feeder tubes in the tree, and the up and coming pressurized injection method. The cup type injection system employs small cups forced into an injector stem which is driven into the tree. The cups are then pushed onto the stem and the chemical concentrate allowed to stay there for several hours or more until liquid has been "taken up" by the tree.

The "plug" type cartridges (Medicaps) are put into small holes drilled into the trunk of the tree. They are used primarily for treating specific nutritional deficiencies rather than for general tree fertilization. They are being used extensively right now for treatment of iron deficiency chlorosis.

The pressure injection technique is a method also used primarily to treat specific ailments at the present, but it may become more popular in the future if environmentalists resist the foliar tree spraying enough to force commercial arborists to go another route. The main advantages of the pressure injection system are its ability to force large dosages of nutrients (or whatever is being injected) into the tree rapidly, and the fact that there is no chemical residue left behind.

Foliar fertilization enables the trees' leaves to utilize the nutrients supplied almost immediately. It is ideal for a tree that needs fast invigoration. Of course, the effects are not nearly as long lasting as those obtained by root feeding or even trunk injections.

NEW TWISTS IN DRAINAGE

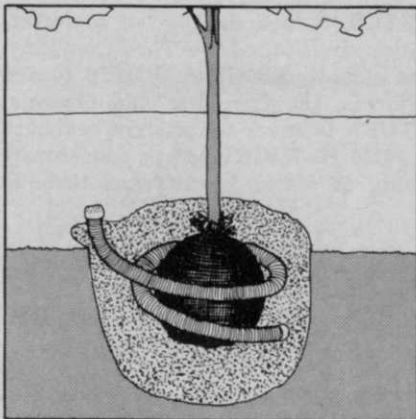
(from page 19)

which literally turn into ponds after a heavy rainfall. Corrugated two-inch tubing can be installed in shallow drainage beds to carry water off into a dry well of gravel underground or into existing drainage.

New playgrounds, senior citizen recreational areas, apartment landscaping and a whole range of outdoor athletic facilities all demand attention to proper drainage in order to keep maintenance costs at a minimum.

Flexible two-inch tubing also lends itself well to various irrigation drainage projects. It is now possible to spiral tubing around balled and burlapped tree roots under ground in order to provide the plant with a "built-in" water reservoir during times of heavy rainfall. A constant supply of oxygen (especially important for the propagation of new root growth) is made available to the balled area through the spiralled tubing which opens at or above ground surface level. Nutrients may also be introduced through the tubing's top opening to disperse slowly around the root ball.

The 1970's have brought a completely new picture to drainage and its application. The materials are now modern, easy to handle, lightweight and inexpensive. With today's trenching equipment and lightweight corrugated tubing we can now work on projects where the problems of handling heavyweight materials once made even getting



near the job sites impossible.

A properly installed drainage system will work efficiently, inexpensively and dependably for many years. As the one element in a landscaping operation that does not require constant watering, feeding, repairing or replacing, it should reflect your careful planning and consideration. Remember, "Drainage doesn't cost, it pays." □



Emergency transplant operations . . .



always a success with Ryan sod cutters.

Winter kill, fungus and disease can hit the best-kept fine turf areas. Excellent insurance to keep these areas in lush, living grass is a sod nursery for emergency repair. And the best way to perform the transplant operation is with a Ryan Sod Cutter. Ryan has a size and model to suit every need.

Ryan JR Sod Cutters (1)

. . . turf-world's most popular sod cutters are compact and highly maneuverable. Self-propelled, easy-to-operate JR Sod Cutters are available in three models capable of cutting 9, 15, or 20 sq. yards of sod per minute. They're ideal

for average-size sod nurseries.

Attachment blades are available for all models for trenching, edging, tilling, pipe laying and sub-soil aeration.

Heavy Duty Sod Cutters (2)

. . . for large sod nurseries and big transplanting jobs. These *extra* rugged machines are built to commercial specifications. Five models are available, enabling you to cut up to three acres of sod per day. All models come in a choice of cutting widths from 12" to 24". They operate smoothly and quickly with dependable, 2-speed transmissions.

Write for FREE Ryan Equipment Catalog.



TURF EQUIPMENT

Outboard Marine Corporation
1757 Cushman Drive
Lincoln, Nebraska 68501

QUALITY, Performance, Dependability...



COLT.
One word.
You know it.
Quality, performance,
dependability
are all there.

JACKLIN.
One word.
Same story.
Jacklin Seed
Company
is one of the world's largest
producers of bluegrass and
other grasses, a name synony-
mous with quality, perfor-
mance and dependability.
When ordering seeds, specify
JACKLIN SEED.

JACKLIN PRODUCES:
Merion Kentucky bluegrass
0217® Brand Fylking
Kentucky bluegrass
Nugget Kentucky bluegrass
S-21 Kentucky bluegrass
Newport Kentucky bluegrass
Delta Kentucky bluegrass
Geary Kentucky bluegrass
Park Kentucky bluegrass
Six Kentucky bluegrass
Troy Kentucky bluegrass
Norlea Perennial ryegrass
Public and private varieties of
Creeping Red, Chewings & Hard fescues.
And has produced on a contract basis:
Pennfine Perennial ryegrass
N.K. 100 Perennial ryegrass
N.K. 200 Perennial ryegrass
Pelo Perennial ryegrass
For these quality Jacklin seeds see your
local wholesale seed distributor. Jacklin is
also a prime* contract producer of:
Warren's A-34 Kentucky bluegrass
O.M. Scott's Windsor Kentucky bluegrass
Adelphi Kentucky bluegrass

Jacklin has built a reputation for fine
quality and service over 30 years. You
can count on purity of content, high
quality and sure germination.

*Available only through breeder and owner outlets.

Jacklin Seed Company

Division of the Vaughan-Jacklin Corporation

industry people on the move



GRANT JURGENSEN joins Jacklin Seed Company
Division of The Vaughan-Jacklin Corp. He will be work-
ing in foreign and domestic wholesale seed sales.

* * *

BERNARD A. NAPIER appointed president of Hypro
Division, Lear Siegler, Inc. He succeeds **HARRY J.
SADLER** who retired after serving as president of Hypro
throughout its 25 year history.

* * *

DR. KENNETH R. TEFERTILLER named vice presi-
dent for agricultural affairs of the University of Florida
by the board of regents.

* * *

ROBERT A. MARTIN appointed vice president of
sales for the Bunton Company. He was sales manager
for both the Bunton and Goodall product lines.

* * *

GERALD A. WELCH, named director of agricultural
marketing, and **Sherwood M. Boudeman**, named director
of agricultural administrative services for the Upjohn
Company.

* * *

RONALD BEAN, joined the agricultural division,
Ciba-Geigy Corp. as a field sales representative.

* * *

TOM DAGNON, appointed technical representative
serving southeastern Pennsylvania, Delaware and the
eastern shore of Maryland for O. M. Scott & Sons.

* * *

BRUCE STICKERS, joined Thompson-Hayward
Chemical Company as an agricultural sales repre-
sentative.

* * *

FRIEDRICH J. "FRED" KATZ and **JEFF HOLCOMB**,
named chief engineer and controller, respectively, for
Yard-Man, Inc.

* * *

GLENDALE GRIZZLE, named director of manufac-
turing for the irrigation division of the Toro Company.
Other division moves include: **ERNIE R. JONES** to dis-
trict manager for Florida, the Carolinas and Georgia;
THEODORE D. MATULA to cover the eastern seaboard
north from Virginia; **JIM H. WICKHAM** to concentrate
on the southern swing of states from Texas through
Alabama.

* * *

JOHN D. "JACK" HYLAND becomes an automatic
controls sales representative for the Hays Mfg. Div. of
Zurn Industries, Inc. He will cover a six state, east cen-
tral region as well as the District of Columbia.

* * *

WILLIAM S. HATTEN, elected group vice president—
engines and electric plants and member of the board of
directors, for Kohler Co.

* * *

JEREMIAH J. SULLIVAN, appointed advertising and
sales promotion manager for Ford Motor Company's
Tractor and Implement Operations—North America. He
succeeds **J. F. FITZSIMMONS** who was named market-
ing manager of Ford Tractor Operations' industrial
equipment operation.

* * *

HARRY W. LARSON becomes sales engineer for the
turf division of Jacobsen Manufacturing Co.