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A. H. Hummert Seed Company, (Elanco, Mallinckrodt), St. Louis, (314) 771-0646
Kitten & Bear Chemical Company, (Elanco, Fisons, PBI/Gordon), St. Louis, (314) 865-2000
Landscop, (PBI/Gordon, Velsicol), Grandview, (816) 765-4777
Link's Nursery, Inc., (Elanco, Mallinckrodt, Velsicol), St. Louis, (314) 432-8592
Outdoor Equipment Company, (PBI/Gordon, Mallinckrodt), St. Louis, (314) 966-3911
Patterson Chemical Company, Inc., (Creative Sales), Kansas City, (816) 842-8211
Pest Control Supplies, (PBI/Gordon, Fisons), Kansas City, (816) 421-4696
Robison's Lawn & Golf, Inc., (Elanco, PBI/Gordon, Mallinckrodt), Grandview, (816) 765-3333
Standard Seed Company, (PBI/Gordon), Kansas City, (816) 842-3838
Stuppy Greenhouse Supply Company, (Elanco, Mallinckrodt), North Kansas, (816) 842-3071
Thompson Hayward, (Thompson Hayward), St. Louis, (314) 389-4740
Veatch Chemical Company, Inc., (Fisons), St. Louis, (314) 832-0056

Montana

Midland Implement Company, (Mallinckrodt), Billings
Mr. Turf, (PBI/Gordon), Helena
Turf Aid Distributing Company (PBI/Gordon), Billings, (406) 656-8008

Nebraska

Big Bear Equipment, Inc. (PBI/Gordon, Velsicol), Omaha, (402) 331-0200
Central Chemical (Creative Sales), Kearney, (308) 234-1326
Cornbelt Chemical Company (Elanco, PBI/Gordon), McCook, (308) 345-5057
John Housley Nursery Sales (Creative Sales), Elkhorn, (402) 289-2626
Jirdon Agri-Chem, Inc., (Creative Sales, Elanco, PBI/Gordon), Morrill, (308) 436-2166
Leisur-Aid (Creative Sale, PBI/Gordon), Omaha, (712) 366-2441
Midwest Toro (Elanco, PBI/Gordon, Mallinckrodt), Omaha, (402) 331-0500
Pioneer Chemical Company, (Creative Sales), North Platte, (308) 532-5867
Simplot Soil Builders (Elanco), Waterloo
South of Sugar Factory (Fisons), Scottsbluff, (308) 632-4155
Thompson Hayward (Thompson Hayward), Omaha, (402) 331-4525
Tri Valley Corporation (Elanco, PBI/Gordon), Omaha, (402) 334-7211
The Yard Company, (PBI/Gordon), Omaha, (402) 333-7576

Nevada

Clark County Wholesale Mercantile Co., (Best Products, Elanco, PBI/Gordon), Las Vegas, (702) 382-7700
Las Vegas Fertilizer Company, Inc. (PBI/Gordon), No. Las Vegas, (702) 649-1551

New Hampshire

Turf Specialties, (Mallinckrodt), Greenland
Turf Specialty, Inc., (PBI/Gordon), Hooksett, (603) 485-7866

New Jersey

Blanken Industrial Weed Company, (Elanco), Maplewood
Chamberlin & Barclay, (Elanco), Cranbury
Ferti-Soil Company, (Elanco, PBI/Gordon, Mallinckrodt, Velsicol), Rahway, (201) 843-6655
D. Gangeri & Son, Inc. (Elanco), Englewood
Green Hill Turf Supply, Inc., (Elanco, PBI/Gordon, Velsicol), Freehold, (201) 462-2349
Good-Prod. Sales, Inc., (Creative Sales, Elanco), Kenilworth, (201) 245-5055
JEP Sales, Inc., (Elanco, PBI/Gordon), Yardville, (609) 585-2300
Johnson Products, Inc., (Elanco), Linden
Lawn King Morris/Passaic Counties, (Elanco), Pine Brook
Levitt's Plant Food Supply, (Elanco), Pine Brook
Lofts Pedigreed Seed Company, Inc., (Elanco, PBI/Gordon), Bound Brook, (201) 356-8700
McLaughlin, Inc., (Elanco), Medford
Meskers, Inc., (Elanco, Mallinckrodt), River Vale, (201) 573-1212

Orange Garden Supply Company, (Elanco), Orange
Pierson's Mill Company, (Elanco, PBI/Gordon, Mallinckrodt, Velsicol), Maplewood, (201) 763-6633
Raycroft Distributors, (Elanco), Shrewsbury
Reed & Perrine, (Elanco), Tennent
Residex Corporation, (Elanco, Fisons), Clark, (201) 381-6200
Rockland Chemical Company, (Elanco, PBI/Gordon, Velsicol), West Caldwell, (201) 575-1322
Simmons & Mount, (Elanco), Cranbury
Storr Tractor Company, (Elanco), Westfield, (201) 232-7800
The Terre Company, (Elanco, PBI/Gordon, Velsicol), Saddlebrook, (201) 843-6655
Turf Products Corporation, (Elanco, Mallinckrodt, Velsicol), Pine Brook, (201) 227-1581
Vaughn-Jacklin Corporation, (Elanco, PBI/Gordon, Mallinckrodt), Bound Brook, (201) 356-4200
Andrew Wilson, Inc., (Elanco, Mallinckrodt, PBI/Gordon), Mountainside, (201) 654-5800

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Layman's Landscaping (Creative Sales), Albuquerque
Roswell Seed Company, Inc., (PBI/Gordon), Roswell, (505) 622-7701

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Westchester Turf Supply Company, (PBI/Gordon, Mallinckrodt), Lincolnale, (914) 937-6523
E. H. Worthington Company, (Mallinckrodt), Saranac Lake
York Chemical Corporation, (Fisons), Long Island, (516) 741-4301

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Byrum Seed Company, (Sta-Green), Charlotte
FCX, Inc., (Elanco), Raleigh
Forshaw Chemicals, Inc., (Elanco, Fisons, Velsicol), Charlotte, (704) 372-6790
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Porter Brothers, Inc., (Mallinckrodt, PBI/Gordon), Shelby, (704) 482-3424
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Thompson Hayward (Thompson Hayward), Fayetteville, (919) 484-3181
U.S.S. Agri-Chemicals, (Elanco), Greensboro

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Grand Forks Seed Company, (Fisons), Grand Forks, (701) 8183
Mon-Dak Chemical Company (Mallinckrodt), Minot

Ohio

Alfco, Inc., (Velsicol), Marietta, (614) 373-1394
Century Toro Distributors, Inc., (PBI/Gordon), Cincinnati, (Mallinckrodt), Columbus, (Elanco, Velsicol), Toledo, (419) 476-7503
Chem-Trol Chemical Company, (Elanco), Gibsonburg
Earl J. Crane, Inc. (PBI/Gordon), Tiffin, (419) 447-8313
Davey Tree Expert Company, (Creative Sales), Kent, (216) 673-9511
Desco Chemical (Div. of Deisch-Benham, Inc.), (Creative Sales), Findlay, (419) 424-0151
Sidney L. Dryfoos Company, (Elanco, PBI/Gordon, Mallinckrodt, Velsicol), Cleveland, (216) 439-4363
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Letherman Seed Company, (Elanco, PBI/Gordon, Velsicol), Canton, (216) 452-5704
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Lucas Landmark, Inc., (Mallinckrodt), Berkey, (419) 829-2791
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Van Atta Seed Company, (Elanco), Cincinnati

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B & G Company, (Creative Sales), Oklahoma City, (405) 848-8858
Paul Blakeney Company, (Elanco, Mallinckrodt, Velsicol), Oklahoma City, (405) 528-7577
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Nick Knott Turf Equipment Company, (Elanco), Tulsa
Muskoeg Seed Company, (Elanco), Muskogee
Thompson Hayward (Thompson Hayward), Oklahoma City, (405) 232-7624; Oklahoma City, (405) 685-7741
Thompson Hayward (Thompson Hayward, PBI/Gordon), Tulsa, (918) 446-1555
Tony's Chemical House, (Elanco, PBI/Gordon), McAlester, (918) 423-4345
Wait Mfg. Company, (PBI/Gordon), Tulsa, (918) 584-3334

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Farmcraft, Inc., (Elanco), Tigard
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Penn State Seed Company, (Elanco), Forty Fort
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Reading Bone & Fertilizer, (Elanco, PBI/Gordon), Reading, (215) 375-4454
Superior Chemical Products, Inc., (Elanco, Velsicol), Philadelphia, (215) 289-7500
Weeds, Inc., (Elanco), Yeadon

Rhode Island

Allen's Seed Store, Inc., (Elanco, Mallinckrodt), Slocum
Old Fox Chemical, Inc., (Elanco, Mallinckrodt, PBI/Gordon), East Providence

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Ramar Laboratories, Inc., (Velsicol), Orangeburg, (803) 534-2787
Southern Agricultural Chemical Company, (Mallinckrodt), Kingstree, (803) 354-6111

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Woolfolk Chemical Works, Inc., (PBI/Gordon), Inman

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Moyer Chemical & Equipment Company, (Elanco), Sioux Falls

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Terry Horn Seed Company, (Elanco, Mallinckrodt), Knoxville, (615) 525-8311
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Regal Chemical Company, (PBI/Gordon, Mallinckrodt), Knoxville, (404) 394-0475
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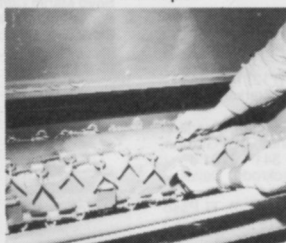
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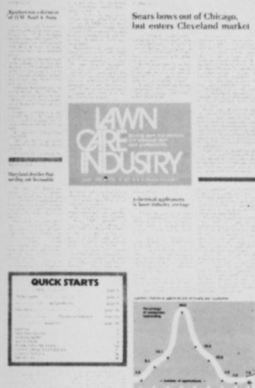
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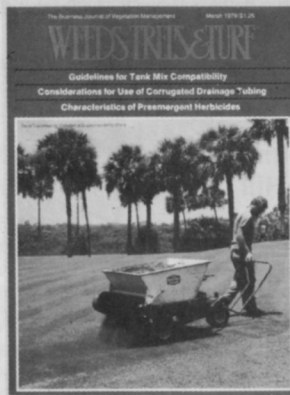
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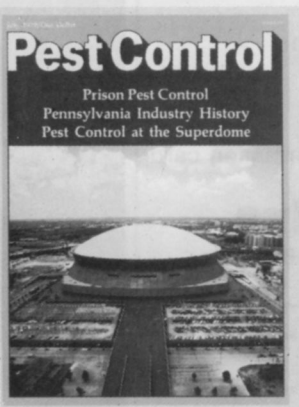
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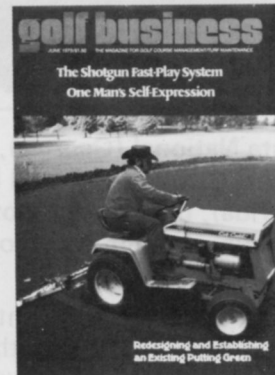
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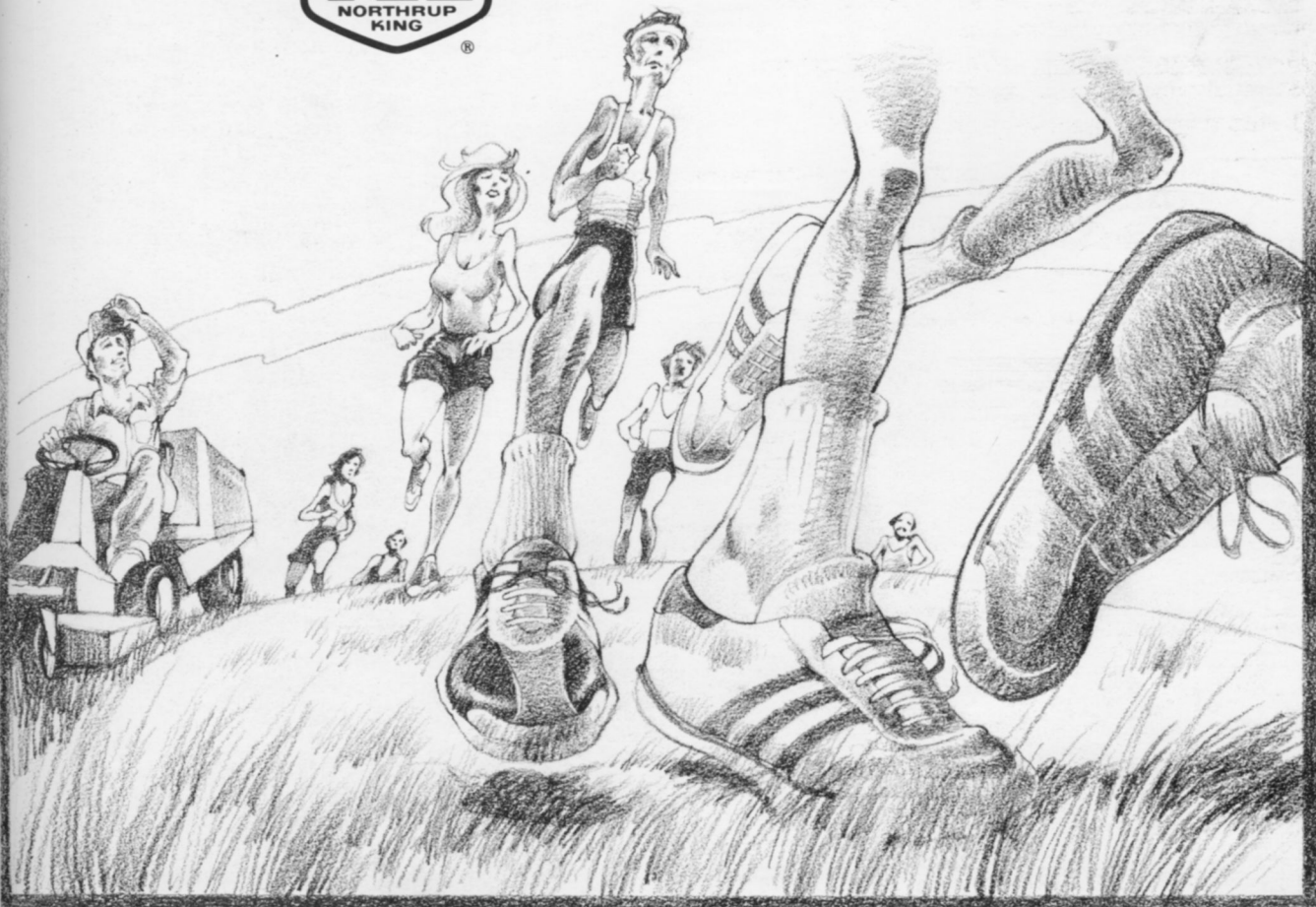
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CHALLENGES OF RAILROAD CONTROL ARE LONG DAYS AND CONSTANT CARE

Each occupation within the Green Industry has its special challenges. In railroad weed control they are long days on spray trains, constant monitoring of application rates, and prevention of drift damage to agricultural crops alongside the tracks.

Perhaps you have seen a railroad spray unit, a short train slowly being pushed down the tracks by a single engine. Two lead cars and five tankers are pushed at a snail-like 15 miles per hour pace across thousands of miles of track each year. Each train has an engine pushing from the rear, tank cars carrying herbicide mixes, a supply car and a lead car to scout ahead and to control two sets of spray booms.

These trains are operated by R.H. Bogle Co., a firm with more than 30 years experience in railroad weed control. As many as 25 railroad companies hire Bogle to clean up weeds along their right-of-ways. This type of weed control provides railroad companies with a more efficient working image, prevention against hazardous right-of-way fires, preservation of wooden ties, and improved visibility at road crossings.

Effective control of the grasses and broadleaf weeds found along railroad tracks necessitates the use of both contact and residual herbicides. And in many instances, field crops such as cotton, tobacco and soybeans are situated very close to the tracks. Consequently, drift control is an extremely important consideration.

According to Bogle Service Engineer Red Shetron, their spray crews avoid crop damage by altering the herbicide spray pattern when necessary. For example, Shetron and his crew frequently spray a mixture of Ortho Paraquat CL and Karmex 80W from one set of booms, and from a second set they apply a mixture containing 2,4-D. When the train is within close range of a farm field, how-



Shetron's crew was on the road for 165 days in 1977. In good weather, they run seven days a week, 15 hours a day. Their goal is 125 miles of track per day.

Chemicals are mixed at the beginning of each day.

Shetron at controls in front of train spots for nearby crops and vegetation.



ever, Shetron turns off the 2,4-D application (because of its high drift potential) and relies solely on the Paraquat and Karmex.

"While we're running, I'm situated in the front car, constantly spotting nearby crops and vegetation along the tracks," Shetron explained. "From there I can cut the 2,4-D when I need to, or even quit spraying entirely if we're too close to susceptible crops. I also stop spraying if there are no weeds to knock down.

"I have two men working with me — J. D. Brown and Dennis Edney," he continued. "They mix the chemicals before we leave in the morning and run the booms while we're applying. In addition to spotting vegetation and crops, I also monitor application pressure and take meter readings at each mile post to see exactly how much material we're applying."

An average of four railroad representatives also man the train, including a roadmaster, engineer, conductor and brakeman.

Bogle spray crews have had relatively few drift problems while doing an effective job of controlling right-of-way vegetation, largely due to the sophisticated equipment now available for railroad weed control.

John McIntosh, representative at the company's head office in Alexandria, Virginia, also emphasized that point. "Our application equipment once consisted of a single, high volume system. Now our

trains have multiple systems. The difference is that with the old system we could only spray one chemical at a time. But now we can apply three chemicals at one time . . . and at different rates.

"There are naturally different weed problems along a railroad track," McIntosh continued. "There are heavy grasses along the side of the track, while in the tie area where there isn't as much dirt, late annuals are more prevalent. Consequently, we don't need to apply as much chemical in the tie area as we do on the shoulder of the track.

Shetron explained that his spray booms cover a 16-foot swath; there are two parallel booms on each side of the train — the outside one used for applying herbicides like Paraquat and Karmex. The system is powered by two Hale centrifugal pumps: a V-4 Wisconsin and a 318 Chrysler. And the total tank capacity of his train is 53,000 gallons (two 10,000 gallon cars and three 11,000 gallon cars).

"We've been applying 2,4-D at a rate of one gallon per acre, diluted in 49 gallons of water," Shetron said. "We also use Nalco-Trol drift control agent with the 2,4-D, and it works very well.

"The Paraquat is sprayed at a rate of 1½ pints per acre, diluted in 50 gallons of water," he continued. "And the Karmex is applied at a rate of six pounds per acre."

He explained that 2,4-D is primarily used for control of vines and other tough perennials. Karmex is applied as a preemergence material, used

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