

# New Homelite XL-Automatic

prunes, limbs, trims, and cuts

30% Faster!

It weighs only 14 pounds,\* but cuts 30% faster on all woods ... 10" limbs in 5 seconds! It has 35% greater fuel capacity than the famous Homelite XL-12 Chain Saw. Automatic chain oiling speeds cutting, reduces wear on bar and chain. Simple to handle in the tree — or on the ground, even for close cutting. Enough power to cut 4-foot diameter trees ... even cut 15" hardwood in 20 seconds. Maintenance is negligible.

See it now. Demonstration is FREE — at your Homelite dealer, or in your own orchard or grove. Homelite's XL's are the fastest selling chain saws in the world.

\*less bar and chain



3912 RIVERDALE AVENUE, PORT CHESTER, NEW YORK

When Writing to Advertisers Please Mention WEEDS TREES AND TURF

# 1965 WEEDS TREES **Article Index** and TURF

An alphabetical reference to subjects and titles of all major feature articles, feature columns, news stories, letters published in Weeds irces and Turf in 1965. A list of authors of this year's articles follows the Directory.

(f) feature article (nf) news feature (ns) news story (c) feature column (ed) editorial (L) letter (br) book review

Issue P	g.
А	
Aerial Services of Roanoke Preiers Invert Herbicides (nf)       Sep         Airplane Believed Practical, Fertilizing Appalachians by (ns)       Jan         Alabama's Weed Spraying Experiment, by C. W. Himes and Holly Mitcheil (f)       Jan         (Algae on Turf) Oklahoma's Annuai Turf Grass Assn. Conterence, by Lee Stevens (nf)       Jan         Algae Under Ice, Outboard Provides Efficient Method for Treatment of (nf)       Nov         Aquatic Herbicides, New Ways to Apply, Part I (f)       Feb         Aquatic Weed Control) Northeastern Weed Meet (nf)      Apr         (Aquatic Weed Control Gains World-Wide Perspective at 5th Hyacinth Control Society June Meet in Palm Beach (nf)       Aug         Aquatic Weed Controllers Review Herbicides, Examine       Aug	21 12 18 9 18 18 28 28
Nonchemical Methods at 5th Annual Affair in Chicago Mar Arborists Holds First Meet, Society of Municipal (ns)Nov Azo Chemical: Versatile Contract Applicator (f)May	
В	
Bahiagrass, Turfgrass Portraits VII:,       by Dr. Robert W. Schery (f)       Jan         Bandane for Turf Weeds, Banvel-D and,       by Richard N. Crowl (f)       Sep         Banvel-D and Bandane for Turf Weeds,       by Richard N. Crowl (f)       Sep         Banvel-D and Bandane for Turf Weeds,       by Richard N. Crowl (f)       Sep         By Richard N. Crowl (f)       Sep       Sep         By Dr. L. R. Krusberg (f)       Jul         Bermudagrass Field Trial Results, AlaN.W. Fla.       Jul         Turfmen Get Latest on Zoysia, Centipedegrass,       by John Parrott (nf)       Nov         Bermudagrass Superior for Golf Greens,       Nov         Bermudagrass Experiment for DED, Maple Disease Tips, Pricing       Oct	24 14 16
Bidrin for DED, Maple Disease Tips, Pricing Hints Conveyed to Arborists at 14th NAA Midwinter Caucus, by Daniel Dowd (nf) Apr Bidrin Safely, Using, by Jan Marfyak (f) Aug Bitterman Advises, "Don't Start the Way I Did," by Marion Rubinstein (f) Oct Bluegrass Variety Developed in Northwest, New (ns) May Brush Control at TVA: Part I, by John R Aldred (f)Jun Brush Control at TVA: Part II, by John R. Aldred (f)Jul Brush Control Concepts Bow at 20th North Central Weed Control Conference, Dec. 14-16, New Crabgrass (nf)Feb Brush, Making Money with Waste, by Frederick W. Donovan (f)	10 31 12 16 10

C

Calibrate Turf Sprayers, How to, by Herb P. Hill (f)Sep 8 Callaway Gardens, Equipment Parade In,
by Fred Galle (f)Jun 20
Centipedegrass, Bermudagrass Field Trial Results, AlaN.W. Fla, Turfmen Get Latest on Zoysia,
by John Parrott (nf)
by Dr. Robert W. Schery (f)Feb 16
Centipede Variety Available to Certified
Growers for '66 Sod, Sprigs of New (ns)Jul 26
Chem-Trol Eliminates Weed Control Callbacks
with Geigv's Prometone, How (f)Oct 17
Chicory (Cichorium intybus); Know Your Species (c) Sep 28
Chlorosis Appears, Iron (ns)Nov 24
(Clover) Alabama's Weed Spraying Experiment,
by C. W. Himes and Holly Mitchell (f)Jul 30
Coloring Compounds, How to Use New Turfgrass (f)Jun 16
(Copper Sulfate) Algae Under Ice, Outboard Provides
Efficient Method for Treatment of (nf)Nov 9
(Copper Sulfate) New Ways to Apply Aquatic
Herbicides, (f) Part I Feb 18; Part IIApr 18
Crabgrass, Brush Control Concepts Bow at
20th North Central Weed Control Conference,
Dec. 14-16, New (nf)Feb 10
(Crabgrass Control) AlaN.W. Fla. Turfmen Get
Latest on Zoysia, Centipede, Bermudagrass
Field Trial Results, by John Parrott (nf)Nov 16

		P	

O	rname	el Thrips	ientists	Launch	Inves	tigation	(ns)	Aug	35
Curly	Dock	(Rumex	crispus)	) Know	Your	Species	(c)	Jun	24

D	
Dacagin Makes Bow (ns)Oct . Daisy, Oxeye (Chrysanthemum leucanthemum);	16
Know Your Species (c)	29
by Ralph W. White, Jr. (f) Part I, Apr 16; Part II May : Disease, Noninfectious Tree, Part II;	18
Influence of Heat and Imbalance of Water, by Dr. Richard Campana (f)May : Diseases, How to Diagnose Shade Tree Root,	12
by Dr. Philip L. Rusden (f)Feb ( (Dutch Elm Disease) Bidrin, Long Island	
Arborists Fight DED with (ns)Nov Dutch Elm Disease, Maple Disease Tips, Pricing Hints Conveyed to Arborists at 14th NAA Midwinter	8
Caucus, Bidrin for, by Daniel Dowd (nf)Apr : Dutch Elm Disease Spreading Westward,	30
Pathologist Warns (ns)Aug : (Dutch Elm Disease) Using Bidrin Safely,	
by Jan Marfyak (f)Aug	10
Е	
(Equipment) Brush Control at TVA:	
Part I, by John R. Aldred (f)Jun (Equipment Gimmicks) Azo Chemical:	12
Versatile Contract Applicator (f)May : (Equipment, Labor-Saving) Labor Management	24
in the Tree Business, by Frederick R Micha (f)Aug (Equipment) New Ways to Apply Aquatic	12
Herbicides, (f) Part I, Feb. 18; Part IIApr	18
Equipment, Panorama of De-thatching (f)Oct Equipment Parade in Callaway Gardens,	12
by Fred Galle (f)Jun	20

y	Fred	Galle	(f)	 	.Jun	20

(Fertilization, Tree) Small Homeowner Contracts May Grow To Be Big Business for Arborists, Felix Tells 15th Annual N.Y. Tree Group,	
by Prof. A.M.S. Pridham (nf)Mar (Fertilizer Deficiencies) How to Diagnose Turfgrass	33
Problems, Part II, by Ralph W. White, Jr. (f)May	18
Fertilizers Underscored at Oklahoma's Annual Turf Grass Assn. Conference Nov. 4-6 in Stillwater,	
Mineral Content in, by Lee Stevens (nf)Jan Fertilizing Appalachians by Airplane	18
Believed Practical (ns)Jan (Flame Weed Control) Californians Aflame with	21
New Weed Control Notions at Biggest Conference	01
Fla. Turfmen Get Latest on Zoysia,	21
Centipedegrass, Bermudagrass Field Trial Results, AlaN.W., by John Parrott (nf)Nov	16
Foxtail, Green ( <i>Setaria viridis</i> ); Know Your Species (c)Jan Fungicides, Insecticides for 200 Delegates, Experts at Virginia Conference Dec. 8-10	24
List, by F. H. Titlow (ns)Feb (Fungi) How to Diagnose Shade Tree Root	
Diseases, by Dr. Philip L. Rusden (f)Feb	13
G	
Garlic Control, Wild, by S. W. Bingham (f)Dec Garlic, Wild (Allium vineale); Know Your Species (c)Apr GCSAA Moves Offices to Ill. (ns)Aug	28
Georgia Weed Controllers Meet to Hear Results of New "Clean Acres" Program, by Virgil E. Adams (ns)Apr (Growth Retardants) International Shade Tree	
Conference, Report of the (nf)Sep	17

Н	
Hawaii Turfgrass Meet Success Assures	
'66 Version (ns)Nov	10
Hawkweed Control with Turf Herbicides,	
by Dr. S. W. Bingham (f)Aug	20
(Helicopter Spraying) Brush Control at TVA:	10
Part I, by John R. Aldred (f)June (Helicopters) Aerial Services of Roanoke	12
Prefers Invert Herbicides (nf)Sep	19
(Helicopters for Brush) New Crabgrass.	16
Brush Control Concepts Bow at 20th North Central	
Weed Control Conference, Dec. 14-16 (nf)Feb	21
(Helicopters) New Ways to Apply	
Aquatic Herbicides, Part II, (f)Apr	18
Highway Supervisors Want From the Contract	10
Applicator, What, by Joseph L. Beasley (f)Apr Highway Vegetation Control Seen as	12
	20
(Highway Weed Spraying) Alabama's Weed Spraying	30
Experiment, by C. W. Himes and Holly Mitchell (f)Jul	12
Horticulture Course, Danville Junior College	
Introduces 2-Year Ornamental (ns)Nov	19
Hyacinth Controllers Plan Field Trip,	
Actual Herbicide Application June 28-30 (ns)Jun	30
(Hypsoperine graminis) A New Nematode in Turfgrass,	14
by Dr. L. R. Krusberg (f)Jul	14
I	

Feb 10	for Trea (Injector, H	tment of a erbicide) 1	New Ways to	(nf)Nov 9
Nov 16	Internationa	al Shade I	ree Conferen	ce, Report of the (nf) Sep 16
WEEDS	TREES	AND	TURF,	December, 1965

<sup>-</sup> KEY -

- International Shade Tree Conference Western Meeting Emphasizes Public Concern for Natural Beauty (nf) Invert Herbicides, Aerial Services of Roanoke Prefers (nf) (Irrigation) Form Mo. Valley Turfgrass Assn. at Annual MU Lawn and Turf Conference, by Ted Hoffman (nf) .....Aug 30 .....Sep 12

by Ted Hollman (ni)No	V 22
(Irrigation) Home Builder Becomes Sod Grower (f) No	v 12
(Irrigation) Over-watering Yellows Leaves (ns)Se	0 32
(Irrigation, Sod) "'Don't Start the Way I Did,'	
Bitterman Advises," by Marion Rubinstein (f)Oc	t 18
(Irrigation, Sod) How to Ready Soil for the	
Next Crop (f)Se	o 20
(Irrigation) Turf Specialists Focus on	
Water Needs, Practices, at 36th Int'l	

Turf-Grass Conference in Cleveland (nf) ......Mar 18

# J-K-L

Jimson Weed (Datura stramonium); Know Your
Species (c)
Job Estimating in the Tree Business,
by W. H. Bartles (f)Oct 15
Kansas, Elm Leaf Beetles Scavenge (ns)Sep 28
Labor Management in the Tree Business,
by Frederick R. Micha (f)Aug 12
(Labor Problems) International Shade Tree
Conference, Report of the (nf)Sep 16
Laurel Thrips Attack Southern California Ornamentals,
Scientists Launch Investigation, Cuban (ns)Aug 35
(Law) Not Fair to Midland (ed)Feb 6
Law, St. Louis May Have Weed (ns)Jan 14
Laws, Colorado Applicators Asked to Back
Proposed Weed (ns)Apr 3°
Lawns, Shrubs, How to Restore Flooded (ns)Nov 25
(Loam, Colorado Sod) How to Ready Soil
for the Next Crop (f)Sep 22

# M

Maple Disease Tips, Pricing Hints Conveyed	
to Arborists at 14th NAA Midwinter Caucus,	
Bidrin for DED, by Daniel Dowd (nf)Apr	30
Michigan Turfmen See Research in Thatch Work, Turf	
Management, Soil Evaluation, at Field Day (ns)Sep	30
Mineral Content in Fertilizers Underscored at	
Oklahoma's Annual Turf Grass Assn. Conference	
Nov. 4-6 in Stillwater, by Lee Stevens (nf)Jan	18
Minn. Maintenance Course, Pruning, Beetles, Pesticide	
Safety Are Topics, at, by Josephine B. Nelson (nf) Nov	18
Mo. Valley Turfgrass Assn. at Annual MU Lawn	
and Turf Conference, Form, by Ted Hoffman (nf) Nov	22
Moisture at Root Level, Check (ns)Oct	26
(Mowers, Vertical) Panorama of De-thatching	
Equipment (f)Oct	
Mouring Air Cushion by Dr Dohart W Schory (f) Son	14

N

NACA Committee to Develop Good Practice	
Principles (ns)Jan National Spraymen's Association, Fla. Applicators	32
Take "Bull by Horns," Set Up (ns)Jun National Spraymen's Association Forges Ahead	26
as Group Proposes Convention in '66,	
Organization of (nf)Oct	21
Nematode Attacks Florida St. Augustinegrass, New (ns)	20
Nematode in Turfgrass, A New,	30
by Dr. L. R. Krusberg (f)Jul	14
(Nozzle Output) How to Calibrate Turf Sprayers,	
by Herb P. Hill (f)Sep (Nozzle Spacing) How to Calibrate Turf Sprayers,	8
by Herb P. Hill (f)Sep	8

# 0

(Oaklawn) Sprigs of New Centipede Variety Available to Certified Growers for '66 Sod (ns)Jul Ohio Meeting, Tax Victory for Nurserymen	26
Announced at (ns)	14
Herbicides in, by Dr. John F. Ahrens (f)Mar Ornamentals; Scientists Launch Investigation, Cuban	12
Laurel Thrips Attack Southern California (ns)Aug	35

# Р

Pacific NW Sprayorama in Seattle, "No More Legislation a Possibility," Washington	
Ag Director Moos Tells, by Marilyn Irwin (nf) Nov 2	20
(pH) How to Use Your Soil Test Kit (f)Jan	
(Plowing Time Table, N.J. Sod) How to Ready Soil	
for the Next Crop (f)Sep :	21
Pokeweed (Phytolacca americana);	
Know Your Species (c)Nov :	23
Prickly Pear (Opuntia spp.); Know Your Species (c)Jul :	28
Prometone, How Chem-Trol Eliminates Weed Control	
Callbacks with Geigy's (f)Oct	17
Prometryne 80W, Error in January Issue	
Regarding Geigy (ns)Apr :	24
Pruning, Beetles, Pesticide Safety Are Topics at Minn.	
Tree Maintenance Course, by J. B. Nelson (nf) Nov	
(Public Relations) Look the Part (ed)Nov (Pump Pressure) How to Calibrate Turf Sprayers,	4
by Herb P. Hill (f)Sep	8

# Q-R

Issue Pg.

(Railroad Maintenance) Azo Chemical:	
Versatile Contract Applicator (f)May (Railroad Maintenance) Broadened Industrial Sessions Underscore Importance of Nonfarm Weed Control at	16
19th Northeastern Weed Meet (nf)	28
by Dr. Philip L. Rusden (f)Feb	12
Rust Control in Merion, Vigorous Growth Key to (ns)Oct Rutgers Turf Conference, Turf Expert Dr. Grau	
Has Advance Look into Future of Turf for (ns) Apr	32
S	
Safety Are Topics at Minn. Maintenance Course, Pruning, Beetles, Pesticide, by	
Josephine B. Nelson (nf)Nov	18

Safety Are Topics at Minn. Maintenance Course,		
Pruning, Beetles, Pesticide, by		~
Josephine B. Nelson (nf)Nov	TI	5
(St. Augustinegrass) A New Nematode in Turtgrass, by Dr. L. R. Krusberg (f)Jul		
Turigrass, by Dr. L. R. Krusberg (f)Jul	14	*
St. Augustinegrass, New Nematode Attacks Florida (ns)	20	0
St. Augustinegrass, Turfgrass Portraits IX:,	3	
by Dr. Robert W. Schery (f)	10	6
Seed Situation Today, The (ed)Jur	1 6	6
Shrub Pests, Know Your Tree and (f)	2	2
Shrub Pests, Know Your Tree and (f)Aug Shrubs, How to Restore Flooded Lawns (ns)Nov	2	5
Snow on the Mountain; Know Your Species (c) Dec	4	3
(Sod Farms, Number of) Sod Industry Headed		
for Vast Expansion, Increased Sales,		
WTT Survey Shows (f)Aug	2:	2
WTT Survey Shows (f)	1:	2
	20	0
Sod Industry Headed for Vast Expansion,	1	
Increased Sales, WTT Survey Shows (f)Aug	2:	2
Sod Production, Current Trends in,	-	
by Ben Warren (f)Jul	20	0
(Sod Production) "Don't Start the Way I Did," Bitterman Advises" by Marian Bubinstein (f)	-	
Bitterman Advises," by Marion Rubinstein (f)Oct (Sod Production) Southern Turf's 300 Acres Produce Sod	11	5
for Golf Courses As Far Away as Japan, India,		
by Pauline T. StephensDec	40	4
(Sod Production) How to Ready Soil for the	- 3.1	τ.
Next Crop (f)	20	0
(Sod Section) WTT's New Monthly Section		
Debuts in July (ns)Jun	2	4
Sod, Sprigs of New Centipede Variety		
Available to Certified Growers for '66 (ns)Jul	21	6
(Soil Analysis) How to Use Your Soil Test Kit (f)Jan	1:	2
Soil for the Next Crop, How to Ready (f)	20	0
(Soil Fumigants) Present and Future Uses of Herbi-		
cides in Ornamentals, by Dr. J. F. Ahrens (f)Mar	29	9
(Soil Moisture) Survey by UC Turf Expert Proves Tensiometer Cuts Water Bill in Half (nf)Jul		
Tensiometer Cuts Water Bill in Half (nf)Jul	2;	5
Spanish Needles (Bidens bipinnata);	~	
Know Your Species (c)Aug	23	6
(Sprayer Calibration) Azo Chemical; Versatile Contract Applicator (f)May	-	-
Sprayers, How to Calibrate Turf.	+	•
by Herb P Hill (f)	2	8

sprayers, now to canorate run,	
by Herb P. Hill (f)Sep	8
Sprayorama '65 Set for Sept. 20-21 in Seattle (ns)Aug :	33
Spray Patterns, How to Assure Better Aircraft (ns)Jul 3	32
Spurge, Prostrate (Euphorbia supina);	
Know Your Species (f) Mar	24
(Stump Treating) Brush Control at TVA,	
Part II, by John R. Aldred (f)Jul 1	17
Surfactants: How They Increase Herbicide Action, by	
Dr. E. E. Schweizer and Dr. C. G. McWhorter (f) Jan	8
(Systemics) "No More Legislation a Possibility,"	

Washington Ag Director Moos Tells Pacific NW Sprayorama in Seattle, by Marilyn Irwin (nf) ......Nov 20

# т

Tax Victory for Nurserymen Announced at	
Ohio Meeting (ns)Nov 1	ä
Tensiometer Cuts Water Bill in Half,	
Survey by UC Turf Expert Proves (nf)Jul 2	5
Thatch Problem, The, by Dr. Robert W. Miller (f)Oct i	ä
Thatching Equipment, Panorama of De- (f)Oct 1	
Thatch Work, Turf Management, Soil Evaluation, at	
Field Day, Michigan Turfmen See Research in (ns) Sep 3	ð
Thrips Attack Southern California Ornamentals;	
Scientists Launch Investigation, Cuban Laurel (ns) Aug 3	5
Tifdwarf Bermudagrass Superior for	1
Golf Greens New (ns) Oct 2	0
Tree and Shrub Pests, Know Your (f) Aug 1	8
Tree Business, Job Estimating in the.	
by W. H. Bartles (f)Oct 1	5
Tree Business, Labor Management in the,	
by Frederick R. Micha (f)Aug 1	2
(Tree Climbers) Labor Management in the	
Tree Business, by Frederick R. Micha (f)Aug I	2
Tree Disease, Part II; Noninfectious; Influence	
of Heat and Imbalance of Water,	
by Dr. Richard Campana (f) May 1	2
Trees, Know Your (br)Aug 3	
Tree Maintenance Course, Pruning, Beetles,	
Pesticide Safety Are Topics at Minn.	
by Josephine B. Nelson (nf)Nov 1	8
(Tree Removal) Brush Control at TVA, Part II,	
by John R. Aldred (f)Jul 1	6
Tree Root Diseases, How to Disgnose Shade,	
by Dr. Philip L. Rusden (f)Feb 1	2
(Tree Zoning) How to Sell Zoned Trees,	
by H. W. Gilbert (f)Nov	6
Trees, Against Rabbits, Field Mice.	
Protect Young (ns) Jan 1	a

V

Issue Pg.
("Trees for New Jersey Streets") Tree Bulletin (ns)Oct 22 Trees, Preventive Care Will Reduce
Storm Damage to Shade (ns)Jan 22 (Trucks) Azo Chemical; Versatile
Contract Applicator (f)
at Annual MU Lawn and, by Ted Hoffman (nf)Nov 22
Turf Discussed at S.E. Conf., Golf Cart Damage to (ns)Jun 30 Turf Herbicides, Hawkweed Control with,
by Dr. S. W. Bingham (f)
Colo. Turfmen Hear at 11th Conference (nf)Jan 29 Turf Sprayers, How to Calibrate, by Herb P. Hill (f)Sep 8
Turfgrass, A New Nematode in, by Dr. L. R. Krusberg (f) Jul 14
Turfgrass Exposition, Northern California
Plans First (ns)
by Ralph W. White, Jr. (f) Part I, Apr 16; Part II May 18 Turfgrass Renovation, Guide to, by Tom Mascaro (f) Feb 8
Bermudagrass Field Trial Results
AlaN.W. Fla., by John Parrott (nf)Nov 16 Turfmen Growing, Texas T-G Meet Hears,
Need for Professional (ns)
ment, Evaluation, at Field Day Michigan (ns) Sen 20
TVA: Brush Control at Part I by John R Aldred (f) Tun 19
TVA: Brush Control at, Part II, by John R. Aldred (f)Jul 12
U-V

(Union Contractors, Dealing with) Job Estimating in the Tree Business, by W. H. Bartles (f) ... .....Oct 15

Adams. Virgil E., "Georgia Weed Controllers Meet to Hear Results of New 'Clean Acres' Program'' Apr	33
Anrens, J. F., "Present and Future Uses of	
Herbicides in Ornamentals"Mar Aldred, John F.	12
"Brush Control at TVA: Part I"Jun	12
"Brush Control at TVA: Part II"	
Bartles, W. H., "Job Estimating in the Tree Business"	
Beasley, Joseph L., "What Highway Supervisors	
Bingham, S. W., "Hawkweed Control with Turf	
intrild Gentle G at the	
Part II: Influence of Heat and Imbalance of Water" May	-
Crowl, Richard N., "Banvel-D and Bandane for	
Donovan, Frederick W., "Making Money with Waste	
Dowd, Daniel. "Bidrin for DED, Maple Disease Tips, Pricing Hints Conveyed to Arborists at	
Galle, Fred, "Equipment Parade in Callaway	
Gilbert, H.W., "How to Sell Zoned Trees"	20
Hill, Herb P., "How to Calibrate Turf Spravers"	8
Gilbert, H.W., "How to Sell Zoned Trees"	12
at Annual MU Lawn and Turf Conference"Nov Irwin, Marilyn, "'No more legislation a possibility," Washington Ag. Director Moos Tells Pacific NW	22
Sprayorama in Seattle"	20
Krusberg, L. R., "A New Nematode in Turfgrass"Jul Marfyak, Jan, "Using Bidrin Safely"Aug	
McWhorter, C. G., "Surfactants: How They Increase	
Micha, Frederick R., "Labor Management in the	8
Tree Business"Aug	12

Insectici	nce Dec. 8-10 List Fungicides, des for 200 Delegates, Experts at, 	4
	W	
"Water" FT- Water, Influ Tree Dis Water Needs Conferen	Association of Ground Sprayers) uma '65 Set for Sept. 20-21 in Seattle (ns)Aug 3: -GA Conference Theme, Oct. 5-7 (nf)Sep 3: ence of Heat and Imbalance of; Noninfectious ease, Part II, by Dr. Richard Campana (f)May 1: c, Practices at 36th Int'l. Turf-Grass ce in Cleveland; Turf Specialists	1
(Weeds, 11 1	bl, How to Sell and Lose (f)	
Wild Carrot Wild Garlic	ent, by C. W. Himes and Holly Mitchell (f)Jul 12 (Daucus carota); Know Your Species (c)Oct 22 Control, by S. W. Bingham (f)	5
Know Yo	ry) Chicory (Cichorium intybus); our Species (c)	

Issue Pg.

## X-Y-Z

Zoysia, Centipedegrass, Bermudagrass Field Trial Results, AlaN.W. Fla., Turfmen Get Latest on,	
by John Parrott (nf)Nov	
(Loyslagrass) A New Nematode in Turfgrass	
by Dr. L. R. Krusberg (f)Jul	14
at Annual MU Lawn and Turf Conference	
by Ted Hoffman (nf)Nov	22

# AUTHORS INDEX

Miller, Robert W., "The Thatch Problem"Oct 8
Mitchell, Holly, "Alabama's Weed Spraying
Nelson, Josephine B., "Pruning, Beetles, Pesticide Safety Are Topics at Minn. Tree Maintenance
Parrott, John, "AlaN.W. Fla. Turfmen Get Latest on Zoysia, Centipedegrass, Bermudagrass Field Trial Results"
Pridham, A. M. S., "Small Homeowner Contracts May Grow to Be Big Business For Arborists
Felix Tells 15th Annual N. Y. Tree Group"
Rusden, Philip L., "How to Diagnose Shade Tree
Koot Diseases"
VII: Bahiagrass"Jan 16
VIII: Centipedegrass"Feb 16
IX: St. augustinegrass"
Alf Cushion Mowing" Son 14
Schweizer, E. E., "Surfactants: How They Increase Herbicide Action"
Stephens, Pauline T., "Southern Turf's 300 Acres Produce Sod for Golf Course As Far Away as Japan,
11111111111111111111111111111111111111
Stevens, Lee, "Mineral Content in Fertilizers Underscored at Oklahoma's Annual Turf Grass Assn. Conference Nov. 4-6 in Stillwater"
Titlow, F. H., "Experts at Va. Conference Dec. 8-10
List Fungicides, Insecticides for 200 Delegates"Feb 34
Van Brackle, Richard D., "Tips on Parkway Trees Included on Varied Program for Calif.
Nursery, Landscape Tree and Turf Meet"Apr 24
Warren, Ben, "Current Trends in Sod Production"Jul 20
White, Ralph W., Jr., "How to Diagnose Turfgrass Problems: Part I"

"How to Diagnose Turfgrass Problems: Part II" ..... May 18

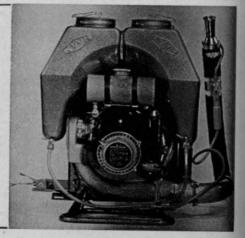
TWIN TANK model POWER KNAPSACK MISTBLOWER DUSTER

Spray, dust, wet-dust, and apply granules with

the same machine; no extra attachments needed. NO DISMANTLING OR REBUILDING — Two separate back tanks and the exclusive KWH 'non-clog' nozzle permit single or simultaneous application of wet and dry chemicals. Cover up to 40 ft. swaths. Simple fingertip controls give precise regulation of output and allow instant switching from liquid to dust or granules and vice-versa. Sturdy . . . yet only 26 lbs.

Knapsack Models: 2 and 4 HP --- Trailer Models: 5-36 HP

Contact your dealer or write to: 378 Mountain Ave. VANDERMOLEN EXPORT CO. North Caldwell, N. J. 07007



# Allout weed control!

Diamond gives you the most potent weapons for your war against weeds. Three great Diamond products give you the efficiency and safety in weed control that is not only desired, but demanded!

**DACTHAL**<sup>®</sup> – pre-emergent weed killer. It destroys the toughest weeds while they're seeds.

DACAMINE®-post-emergent non-volatile weed killer.

It goes to the roots to wipe out hard-to-kill, deep rooted perennial weeds.

**DACAGIN**<sup>(TM)</sup> – pseudoplastic spray gel. You mix weed killers with it to reduce physical spray drift. For more information about these tested and proved products and a plan of action for All-Out Weed Control, write today. We'll send a weed killing expert on the run.



# WEEDS TREES AND TURF 1966 SUPPLIERS GUIDE

Weeds Trees and Turf presents below its annual Guide to Suppliers of vegetation control chemicals and equipment for use in urban/industrial areas. There is a mixture of common and trade-marked names (indicated by an asterisk\*). This has been unavoidable since usage and recommendations of researchers refer to a particular chemical by one or the other, depending upon the newness of the compound, whether its common name is easier to use, or industry acceptance. There will also be some differences of opinion over the inclusion or omission of certain chemicals under particular use categories. Here again confusion exists among reference sources. We have made our choices on the basis of most frequent mention in our surveys which preceded this compilation. Readers' comments and suggestions are invited to help us improve future editions. Keep this year's Guide handy for frequent use.

Advertisers in Weeds Trees and Turf are listed in boldface type.

# HERBICIDES

# SOIL STERILANTS

Amchem Products, Inc. R. H. Bogle Co. Brayton Chemicals, Inc. Gabriel Chemicals, Ltd. Green Lown Laboratories, Inc. Hub-States Chemical & Equipment Co. Niogara Chemical Residex Corp.

# AMMONIUM SULFATE

Brayton Chemicals, Inc. J. J. Dill Co. E. I. duPont de Nemours & Co., Inc. Green Lawn Laboratories, Inc. Residex Corp. Southern Mill Creek Products Co.

# ATRAZINE

Baird & McGuire, Inc. R. H. Bogle Co. Brayton Chemicals, Inc. J. J. Dill Co. Gabriel Chemicals, Ltd. Geigy Chemical Corp. Green Lown Laboratories, Inc. Miller Chemical & Fertilizer Corp. Niagara Chemical Prentiss Drug & Chemical Co. Residex Corp. O. M. Scott & Sons Co. Smith Douglass Co., Inc. Southern Mill Creek Products Co. Stephenson Chemical Co., Inc. Wood Treating Chemicals Co.

# **BENZABOR\***

Brayton Chemicals, Inc. U.S. Borax & Chem. Corp.

# BORATE COMPOUNDS

American Potash & Chem. Corp. Chipman Chemical Co., Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. Nalco Chem. Co. U.S. Borax & Chem. Corp. Utility Chemical Co.

# BORATE MIXTURES

Chipman Chemical Co., Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. U.S. Borax & Chem. Corp. Utility Chemical Co.

BO-RID\*

R. H. Bogle Co.

# BROMACIL

R. H. Bogle Co. Brayton Chemicals, Inc. J. J. Dill Co. General Chemical Div., ACC

# CALCIUM CHLORIDE

**R. H. Bogle Co.** Brayton Chemicals, Inc. Miller Chemical & Fertilizer Corp. Pittsburgh Plate Glass Co. Utility Chemical Co.

# CARBYNE\*

Chipman Chemical Co., Inc.

# CHLOREA\*

Brayton Chemicals, Inc. Chipman Chemical Co., Inc. J. J. Dill Co. Green Lawn Laboratories, Inc.

# DALAPON

R. H. Bogle Co. Dow Chemical Co. Green Lown Laboratories, Inc. Miller Chemical & Fertilizer Corp. Residex Corp. Smith Douglass Co., Inc. Southern Mill Creek Products Co. Wood Treating Chemicals Co.

# DIURON

R. H. Bogle Co.
Brayton Chemicals, Inc.
Chapman Chemical Co.
J. J. Dill Co.
E. I. duPont de Nemours & Co., Inc.
Gabriel Chemicals, Ltd.
Green Lawn Loboratories, Inc.
Miller Chemical & Fertilizer Corp.
Residex Corp.
Southern Mill Creek Products Co.
Andrew Wilson, Inc.
Wood Treating Chemicals Co.

# ERBON

Brayton Chemicals, Inc. Dow Chemical Co. Elanco Products Co. Green Lawn Laboratories, Inc. Residex Corp.

# FENAC

Amchem Products, Inc. **R. H. Bogle Co.** Brayton Chemicals, Inc. Residex Corp.

# FENATROL\*

Amchem Products, Inc. Brayton Chemicals, Inc. Residex Corp.

# HCA\*

General Chemical Div., ACC Southern Mill Creek Products Co.

# MONOBOR-CHLORATE\*

Brayton Chemicals, Inc. Green Lawn Laboratories, Inc. U.S. Borax & Chem. Corp.

# MONURON

R. H. Bogle Co. Brayton Chemicals, Inc. Destruxol Corp., Ltd. J. J. Dill Co. E. I. duPont de Nemours & Co. Gabriel Chemicals, Ltd. Green Lawn Laboratories, Inc. Residex Corp. Southern Mill Creek Products Co.

# PBA

Amchem Products, Inc. Brayton Chemicals, Inc. E. I. duPont de Nemours & Co. Gabriel Chemicals, Ltd.

# **PROMETONE\***

R. H. Bogle Co. Brayton Chemicals, Inc. J. J. Dill Co. Geigy Chemical Corp. Green Lawn Laboratories, Inc. Residex Corp. Southern Mill Creek Products Co.

# SIMAZINE

R. H. Bogle Co. Brayton Chemicals, Inc. J. J. Dill Co. Gabriel Chemicals, Ltd. Geigy Chemical Corp. Green Lawn Laboratories, Inc. Niagara Chemical



# 3 for the

money

Chinch bugs and sod webworms in any turf and eriophyid mites in Bermuda grass. All three get their comeuppance when you use Ethion. Ounce for ounce no chinch bug killer outperforms it; one application can control up to six weeks or longer.

Ethion



IRFIELD CHEMICALS, NIAGARA CHEMICAL DIVISION, MIDDLEPORT, NEW YORK

Prentiss Drug & Chemical Co. Residex Corp. Smith Douglass Co., Inc. Southern Mill Creek Products Co. Stephenson Chemical Co.

# SODIUM ARSENITE

American Liquid Fertilizer Co., Inc. Baird & McGuire, Inc. R. H. Bogle Co. Brayton Chemicals, Inc. Chapman Chemical Co. Chipman Chemical Co., Inc. Destruxol Corp., Ltd. J. J. Dill Co. Faesy & Besthoff, Inc. Gabriel Chemicals, Ltd. Green Lown Loboratories, Inc. Industrial Materials Co. Niagora Chemical Co. Pennsalt Chemicals Corp. B. G. Pratt Co. Roussel Corp. Sherwin-Williams Co. Southern Mill Creek Products Co. Thompson-Hayward Chem. Co. U.S. Borax & Chem. Corp. Utility Chemical Co. Andrew Wilson, Inc.

# SODIUM CHLORATE

American Potash & Chem. Corp. **R. H. Bogle Co.** Brayton Chemicals, Inc. Chipman Chemical Co., Inc. J. J. Dill Co. Green Lown Laboratories, Inc. Hooker Chemical Co. Pennsalt Chemicals Corp. Pittsburgh Plate Glass Co. Utility Chemical Co.

# TBA

E. I. duPont de Nemours & Co. Green Lawn Laboratories, Inc.

# TCA

R. H. Bogle Co. Chapman Chemical Co. Chipman Chemical Co., Inc. Green Lawn Laboratories, Inc.

# TRITAC\*

Brayton Chemicals, Inc. Hooker Chemical Co. U.S. Borax & Chem. Corp.

# TRITAC-D\*

Residex Corp. U.S. Borax & Chem. Corp.

#### **URAB\***

Brayton Chemicals, Inc. J. J. Dill Company Green Lawn Laboratories, Inc. Southern Mill Creek Products Co.

# **UREABOR\***

Brayton Chemicals, Inc. Green Lawn Laboratories, Inc. U.S. Borax & Chem. Corp.

# UROX\*

Baird & McGuire, Inc. Brayton Chemicals, Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. Southern Mill Creek Products Co.

**VAPAM\*** 

Stauffer Chemical Co.

# PREEMERGENCE

# ALANAP\*

Brayton Chemicals, Inc. Gabriel Chemicals, Ltd. Green Lawn Laboratories, Inc. Naugatuck Chemical Niagara Chemical Smith Douglass Co., Inc.

### AMIBEN\*

Amchem Products, Inc. Brayton Chemicals, Inc. Gabriel Chemicals, Ltd. Niagara Chemical Smith Douglass Co., Inc.

# AZAK\*

Hercules Powder Co.

# **BANDANE\***

Asgrow Seed Co. Brayton Chemicals, Inc. Chapman Chemical Co. J. J. Dill Co. Green Lawn Laboratories, Inc. Southern Mill Creek Products Co. Velsicol Chemical Corp.

# BANVEL-D\*

J. J. Dill Co. Green Lawn Laboratories, Inc. Velsicol Chemical Corp.

# BENEFIN

Elanco Products Co. Green Lawn Laboratories, Inc.

# **BETASAN\***

Asgrow Seed Co. J. J. Dill Co. Green Lawn Laboratories, Inc. Stauffer Chemical Co.

CALCIUM PROPYL ARSENATE Green Lawn Laboratories, Inc.

CAPAROL\*

Geigy Chemical Corp.

CASORON\* (Dichlobenil) Thompson-Hayward Chem. Co.

> CHLORDANE (See Insecticides)

(see Insecticules,

# CIPC

Brayton Chemicals, Inc. Pittsburgh Plate Glass Co.

# DACTHAL\*

Baird & McGuire, Inc. Brayton Chemicals, Inc. Chipman Chemical Co., Inc. Diamond Alkali Co. J. J. Dill Co. Gabriel Chemicals, Ltd. Green Lawn Laboratories, Inc. International Minerals & Chemical

# **Tell Advertisers**

# You Learned About Them

in

WEEDS TREES and TURF

O. M. Scott & Sons Southern Mill Creek Products Co. Swift & Co. Wood Treating Chemicals Co.

# DIPHENAMID

Elanco Products Co. Green Lawn Laboratories, Inc. Smith Douglass Co., Inc.

### DIPHENATRILE

Elanco Products Co. Green Lawn Laboratories, Inc.

# DIPROPALIN

Green Lawn Laboratories, Inc.

# DNBP

Brayton Chemicals, Inc. Niagara Chemical

# ENDOTHALL

Brayton Chemicals, Inc. Gabriel Chemicals, Ltd. Green Lawn Laboratories, Inc. Pennsalt Chemicals Corp.

# EPTAM\*

Brayton Chemicals, Inc. Smith Douglass Co., Inc. Stauffer Chemical Co.

HERBAN\* Hercules Powder Co.

HERBISAN Hercules Powder Co. Roberts Chemicals, Inc.

IPC

Chipman Chemical Co., Inc. Pittsburgh Plate Glass Co.

LEAD ARSENATE Chipman Chemical Co., Inc.

# LINURON

Smith Douglass Co., Inc.

# NEBURON

Brayton Chemicals, Inc. Green Lawn Laboratories, Inc. Residex Corp.

# SESONE\*

Amchem Products, Inc. Niagara Chemical

# SIMAZINE

Brayton Chemicals, Inc. J. J. Dill Co. Geigy Chemical Corp. Green Lawn Laboratories, Inc. Miller Chemical & Fertilizer Corp. Niagara Chemical Residex Corp. Southern Mill Creek Products Co. Wood Treating Chemicals Co.

# TILLAM\*

Brayton Chemicals, Inc. Smith Douglass Co., Inc. Stauffer Chemical Co.

TREFLAN

Elanco Products Co.

# TRICALCIUM ARSENATE

Chipman Chemical Co., Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. Pennsalt Chemicals Corp. The Sherwin-Williams Co.

# Make More Money

Avoid Competition <u>Automatically Capture All Repeat Orders</u> Completely Satisfy Your Customers

(and your sales staff plus yourself)

Sell the Very Best Materials Confidently

To accomplish all this and more . . .

# Sell Your Own Private Labeled Products

Yes, now you can have your own PRIVATE LABEL on all or any number of products that will sell better and faster, and will be in constant demand from your company and your company only.

By selling superior materials with only your company name and address on the label means you can, more efficiently, profitably, and confidently sell these materials because you know:

1. Whatever time you spend with your customer, educating and instructing him on your product's uses and merits, will not be wasted as he cannot obtain this product elsewhere.

2. Once your customer uses your products and sees the spoken results come true, you are guaranteed that all reorders will come directly to your company. (No one else will have it.)

**3.** You can safely advertise these products because you are guaranteed that all sales will be yours.

4. You are assured that all formulations and products under your own label are the finest obtainable as they have been thoroughly tested under actual varied growing conditions and have been formulated the finest way possible; therefore, they are always uniformly consistent in formulation and will give the results expected.

**5.** If, and when, technical advice, information, and help is needed, you can be sure that Green Lawn Laboratories' agronomists will always give you personal assistance fast and efficiently.

# GREEN LAWN LABORATORIES, INC.

4844 Main Street - SKOKIE, ILLINOIS 60076 - Phone 312-673-7500

Formulators and Packagers of Private Label Products Serving the Ornamental, Horticultural and Turfgrass Independent Dealer Markets

# A few of the product types that are quickly available under your own label:

Selective Weed Killers, Chemical Soil Conditioners, Wetting Agents, Soil and

Mat Penetrating Compounds, Liquid Fertilizers, Dry Granular Fertilizers,

Insecticides, Fungicides, Herbicides, Soil Sterilants, Green Coloring Sprays.

LARGE ORDERS NOT NECESSARY

Write Today for Details and Prices

# TRIFLURALIN

Elanco Products Co.

# **ZYTRON\***

Brayton Chemicals, Inc. Dow Chemical Co. Green Lawn Laboratories, Inc. Residex Corp. Southern Mill Creek Products Co. Stauffer Chemical Co.

POSTEMERGENCE

# AMITROLE-T\*

Amchem Products, Inc. American Cyanamid Co. Baird & McGuire, Inc. R. H. Bogle Co. Brayton Chemicals, Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. Residex Corp. Smith Douglass Co., Inc.

# AMMONIUM METHYL ARSENATE

Black Leaf Products Co. Brayton Chemicals, Inc. W. A. Cleary Corp. Destruxol Corp., Ltd. J. J. Dill Co. Doggett Fison Co. Green Lawn Laboratories, Inc. B. G. Pratt Co. Southern Mill Creek Products Co.

AMMONIUM THIOCYANATE

Green Lawn Laboratories, Inc. Utility Chemical Co.

# AMMONIUM SULFAMATE

J. J. Dill Co. Residex Corp.

# ARSENIC ACID

R. H. Bogle Co. Chipman Chemical Co., Inc. J. J. Dill Co. Green Lawn Laboratories, Inc. Niagara Chemical Pennsalt Chemicals Corp. Sherwin-Williams Co.

# ATRAZINE

Baird & McGuire, Inc. J. J. Dill Co. Geigy Chemical Corp. Green Lawn Laboratories, Inc. Niagara Chemical Residex Corp. Southern Mill Creek Products Co.

# **BANVEL-D\***

Brayton Chemicals, Inc. Green Lawn Laboratories, Inc. Hub-States Chemical & Equipment Co. Riverdale Chemical Co. Velsicol Chemical Corp.

### BETASAN

Stauffer Chemical Co.

# BORATE COMPOUNDS

American Potash & Chem. Corp. Chipman Chemical Co., Inc. Green Lawn Laboratories, Inc. Utility Chemical Co.

# BROMACIL

J. J. Dill Co.

# CACODYLIC ACID

The Ansul Co. Chapman Chemical Co. Green Lawn Laboratories, Inc. Southern Mill Creek Products Co.

# CALCIUM ACID

METHYL ARSENATE

Brayton Chemicals, Inc. Green Lawn Laboratories, Inc.

# CALCIUM PROPYL ARSENATE

Green Lawn Laboratories, Inc.

**CAPAROL\*** Geigy Chemical Corp.

**CYTROL\*** American Cyanamid Co.

# DACAMINE\*

Brayton Chemicals, Inc. Diamond Alkoli Co. Gabriel Chemicals, Ltd. Southern Mill Creek Products Co.

# DACAGIN\*

Diamond Alkali Co.

# DALAPON

R. H. Bogle Co. Brayton Chemicals, Inc. Dow Chemical Co. Green Lawn Laboratories, Inc. Residex Corp. Smith Douglass Co., Inc. Southern Mill Creek Products Co. Wood Treating Chemicals Co.

# DINITRO COMPOUNDS

Green Lawn Laboratories, Inc. Niagara Chemical Smith Douglass Co., Inc.

# DIURON

Chapman Chemical Co. J. J. Dill Co. E. I. duPont de Nemours & Co., Inc. Green Lawn Laboratories, Inc. Residex Corp. Southern Mill Creek Products Co. Andrew Wilson, Inc.

# DMA (DSMA)

The Ansul Co. Asgrow Seed Co. Chapman Chemical Co. W. A. Cleary Corp. Green Lawn Laboratories, Inc. Miller Chemical & Fertilizer Corp. O. M. Scott & Sons Co. Southern Mill Creek Products Co.

# DIPHENAMID

Destruxol Corp., Ltd. Elanco Products Co. Smith Douglass Co., Inc.

# ENDOTHALL

Green Lawn Laboratories, Inc. Pennsalt Chemicals Corp.

EPTAM Stauffer Chemical Co.

FENAC Amchem Products, Inc. Residex Corp.

# FENURON

**R. H. Bogle Co.** E. I. duPont de Nemours & Co., Inc. Residex Corp. Southern Mill Creek Products Co.

#### HCA

Southern Mill Creek Products Co.

# HYVAR X BROMACIL\*

J. J. Dill Co. E. I. duPont de Nemours & Co., Inc. Southern Mill Creek Products Co.

# LINURON

E. I. duPont de Nemours & Co., Inc. Green Lawn Laboratories, Inc. Smith Douglass Co., Inc.

# MCPA

Brayton Chemicals, Inc. Chipman Chemical Co., Inc. Diamond Alkali Co. J. J. Dill Co. Dow Chemical Co. Green Lawn Laboratories, Inc. Miller Products Co. Riverdale Chemical Co.

# MCPP

Chipman Chemical Co., Inc. W. A. Cleary Corp. J. J. Dill Co. Doggett Fison Co. Green Lawn Laboratories, Inc. Morton Chemical Co.

# MONURON

Destruxol Corp., Ltd. J. J. Dill Co. E. I. duPont de Nemours & Co., Inc. Green Lawn Laboratories, Inc. Miller Chemical & Fertilizer Corp. Residex Corp. Southern Mill Creek Products Co.

# MSMA

The Ansul Co. W. A. Cleary Corp. Diamond Alkali Co.

# NEBURON

Green Lawn Laboratories, Inc.

## PENTACHLOROPHENOL

Baird & McGuire, Inc. Braun-Knecht-Heimann Co. Brayton Chemicals, Inc. Chapman Chemical Co. Green Lawn Laboratories, Inc. Nalco Chemical Co. Southern Mill Creek Products Co. Waverly Petroleum Products Co.

# PHENYLMERCURIC ACETATE

American Liquid Fertilizer Co., Inc. Aquatrols Corp. of America Brayton Chemicals, Inc. W. A. Cleary Corp. J. J. Dill Co. Green Lawn Laboratories, Inc.

**Green Lawn Laboratories, Inc.** Southern Mill Creek Products Co. Velsicol Chemical Corp.

# **PROMETONE\***

(See Soil Sterilants)

# PROPAZINE

Brayton Chemicals, Inc. J. J. Dill Co. Green Lawn Laboratories, Inc.

#### SILVEX

Amchem Products, Inc. Asgrow Seed Co. Baird & McGuire, Inc. Brayton Chemicals, Inc. Chipman Chemical Co., Inc.