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- **Reduce equipment losses** • **Improve plant appearance**

Use of a chemical control program based on Du Pont weed and brush killers is a fast, effective and cost-saving way to eliminate unwanted weeds and brush . . . and the many problems they cause.

To help you solve these problems, Du Pont has developed recommended weed- and brush-control programs designed for your area. The base of these programs is, of course, time-proven and dependable Du Pont HYVAR® bromacil weed killers. They are available in wettable powder form as HYVAR X, in easy-to-use liquid form as HYVAR X-L and as dry pellets as HYVAR X-P. Du Pont approved products containing bromacil also may be used to provide excellent control.

Let us show you how HYVAR bromacil weed and brush killers can work into your vegetation control programs. Write today for printed

With any chemical, follow labeling instructions and warnings carefully.



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recommendations of programs designed specifically for your geographic area. Get the facts now and put a stop to weed pollution.

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Wilmington, Delaware 19898

I need more information about
Du Pont chemical control of weed pollution.

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- Have Du Pont representative call

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CHAIN SELECTOR CHART

Cutting Job	Chain	Saw Size	Performance			Filing Method		Remarks
			Cutting Speed	Smoothness	Wood Cut per Chain	Recommend Round File and Holder	Requires Special Filing Technique	
Competition (for use in cutting contests)	80 Series	2 cu. in. larger	1st in wood under 30" diameter	1st	2nd		X	Fastest, smoothest chain made. For wood under 30" diameter. Use top file guide or sharpen automatically on saws equipped with "Power-Sharp."
	Chisel	4 cu. in. larger	1st in wood over 30"	2nd	1st		X	Fastest "Big Timber" chain. Sharpen with a chisel file.
Big Timber (wood over 30" in diameter)	Chisel	4 cu. in. larger	1st	1st	1st		X	Preferred by pros in "Big Timber." File with a chisel file. No file holder required. Not a chain for the week-ender. 1/2" pitch.
	Super-Chisel	3 cu. in. larger	2nd	2nd	2nd	X		A pro chain sharpened easily with a round file. Also available in chisel grind for sharpening with a chisel file .404" pitch.
	Micro-Chisel	2 cu. in. larger	3rd	3rd	3rd	X		New design. A chain of the future. Comes in a variety of sizes. Easy maintenance with round file and holder. Excellent in all woods.
	Micro-Bit	4 cu. in. larger	4th	4th	4th	X		Easy to sharpen. Not for small saws.
	Chipper	1.5 cu. in. larger	5th	5th	5th	X		Least expensive. Good general purpose chain. All sizes. 1/2" pitch standard on most gear drive saws.
Pulpwood and timber under 30" in diameter	80 Series	2 cu. in. larger	1st	1st	5th		X	Automatically sharpened on saws equipped with "Power-Sharp" or use top file guide (See Line 1).
	Super-Chisel	3 cu. in. larger	2nd	2nd	2nd	X		Good in all woods. Easy maintenance with a round file. Also available in chisel grind. .404" pitch.
	Micro-Chisel	2 cu. in. larger	3rd	3rd	3rd	X		New design makes this best all around performer. Easy maintenance with round file and holder. Fits most saws.
	S-70	2-6 cu. in.	4th	4th	1st	X		Long chain life. Fine all-around performer. 3/8" pitch.
	Chipper	1.5 cu. in. larger	5th	5th	4th	X		Least expensive. 1/2" pitch standard on most gear drive saws. Easy maintenance.
Limbing where kick-back is a problem	87	2 cu. in. larger	1st	1st	3rd		X	.325" pitch. Automatically sharpened on saws equipped with "Power-Sharp" or use top file guide (See Line 1).
	Speed-Guard	2-6 cu. in.	2nd	2nd	1st	X		Long chain life, easy maintenance with round file and holder, 3/8" pitch.
	Micro-Guard	4 cu. in. larger	3rd	3rd	2nd	X		.404" pitch. Designed for larger saws.
Farm choring and occasional use	80 Series	2 cu. in. larger	1st	1st	4th		X	Automatically sharpened on saws equipped with "Power-Sharp" or use special guide for "Goof-Proof" filing (See Line 1).
	Micro-Chisel	2 cu. in. larger	2nd	2nd	2nd	X		New design makes chain top all-around performer. Fits all saws including lightweights.
	S-70	2-6 cu. in.	3rd	3rd	1st	X		Long chain life. Fine all-around performer. 3/8" pitch.
	Chipper	1.5 cu. in. larger	4th	4th	3rd	X		Least expensive. Easy maintenance. 1/2" pitch is standard on most gear drive saws.

Keep this chart

OREGON Saw Chain Division



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WEEDS TREES and TURF

Volume 10, No. 5

May, 1971

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- When the Chinch Bugs Struck, They Called a 'Copter** 32
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Clarke Fenimore is proof that even in the space and computer age, you can still start a business on that proverbial shoestring.

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The Cover

You can't recognize the uniqueness of the cover picture unless you're familiar with turf care in the area of Houston's Intercontinental airport. The picture was taken during the four- to eight-week period that crews have to *get ready* for grass. It grows the rest of the year. But that doesn't mean no mowing, as you can see. The boulevard approach to the Houston airport is being cut to a half-inch. It will be swept, then fertilized and seeded in some areas. Drainage ditches are getting pre-emergence herbicides. You will find about every kind of vegetation care going on at an airport, such as Houston Intercontinental and Chicago's O'Hare Field. The story begins on page 18.



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What About Those Critical Spots? CONWED EROSION CONTROL NETTING is the solution. This strong, lightweight plastic netting quickly unrolls and staples over seeded and mulched or sodded areas where erosion will most likely take its toll.

Roll widths of 7½', 12' and 15' let you choose the most efficient size for steep banks, side hills, ditches . . . wherever extra protection is needed. And Conwed Erosion Control Netting gradually disintegrates, eliminating pick-up problems.



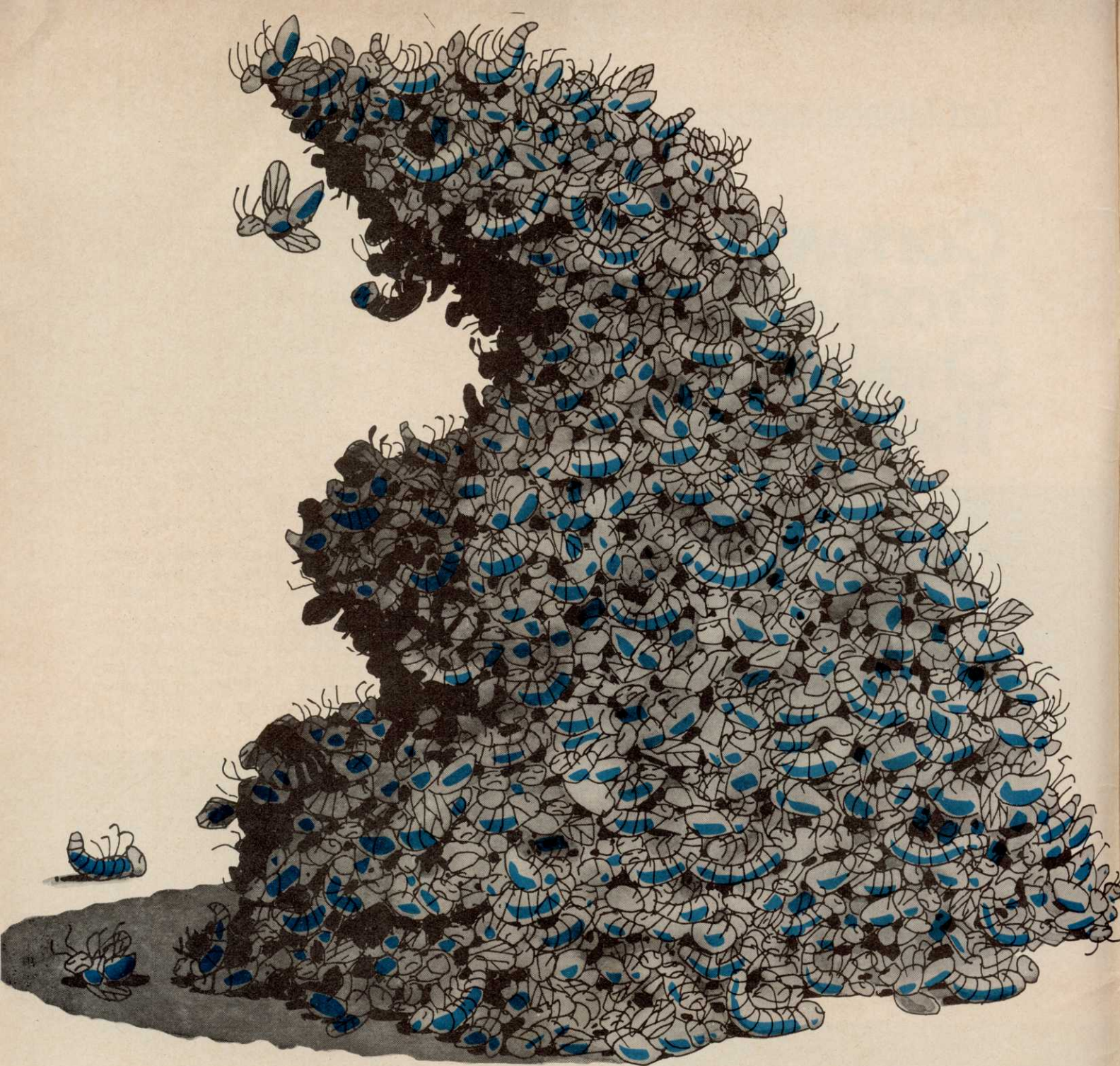
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You are invited to use the Reader Service card provided to obtain further information on equipment, materials or supplies appearing in this issue. This card is preaddressed and postage paid.

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Why You Should Get Hip to Young People

JUST WHAT IS your responsibility, as a businessman, to young people?

It is, though too briefly stated, to convince them your business is worthwhile. As an occupation. As a producer of a beneficial product or service. Otherwise, *they will do their own thing*. And their own thing may be in competition or in opposition to what you are doing.

We're getting around to asking: Do your public relations efforts include activities uniquely directed to young people?

These efforts should view young people from three premises: that they will become your customers; your employees; or will hold positions in the future that will affect the conduct of your business.

Involvement is the key word to getting better understanding of what you do, why you do it, and what the end results of your business efforts are.

Golf superintendent associations sponsor scholarships. Indiana Farm Bureau Cooperative Association, as a part of its "Safety Side of Pesticides" campaign, developed an essay contest for elementary and high school students. Cleveland's forestry department works with Boy and Girl Scouts of America and other youth groups who have conservation requirements. (A tree-planting project last spring brought out 1,500 young people.)

What about a young people's tour of your business? A tree- or grass-growing contest? A plant identification contest? Most youth groups have a community service requirement. How about a cemetery spruce-up campaign for Memorial Day? Many businesses cooperate with area vocational schools, offering employment to satisfy the curriculum's on-the-job training requirements.

You can think of a dozen more ways to involve young people if you will just take time to give it some thought. No time? Then how about getting a young person to give it some thought?

You in the industries this magazine serves have an unprecedented opportunity to favorably influence young people toward your profession. The "now words" are ecology and environment. These are outdoor things. This is your bailiwick. Author Odom Fanning in his new book, "Opportunities

in Environmental Careers," (See The National Greenscape, pages 10 and 12 for publisher's address) says environmental jobs will double by 1980.

You have an inspired generation from which to pick your future employees. They seek with a fervor a world that's a healthier, more beautiful, more enjoyable place to live. Aren't the aims of your business efforts in line with that goal? Then take steps to tell them so.

Your industry is tailored to the younger generation. It's vigorous, rugged, challenging, creative. It requires the hardiness and enthusiasm of the young. The constant need for improvisation and innovation is worthy and welcomed exercise for the young, inquisitive mind.

Your industry is in excellent position to correct a situation that may be one of the strongest contributors to young people's disenchantment with business. They are educated to be individualists, then find themselves in a business world of conformity.

Throughout a young person's formal education, he is taught to think for himself, plow new ground, sow new seeds. Educators constantly boast of how much more youngsters are learning these days and how much earlier they are learning compared with older generations. But with degree in hand, they've discovered it is the old military game of "hurry up and wait" and "conform."

With heads bursting with principles, theories and enthusiasm, they're then de-energized by job classifications, union work quotas, pay categories, seniority rights, standard operating procedure, and, in some instances, just plain age discrimination.

Your industry incorporates so many work description variables that you have the chance to better your competitive position for labor by offering to shape the job to the man, rather than forcing the man to shape to the job.

It is interesting to speculate. If industry did as much to cultivate young people's energies and talents as it does to get their spendable income, would there be a segment of the younger generation shouting for the destruction of The Establishment?

Gene Ingalsbe

If beautiful, weedless turf is a status symbol...so is BANVEL.[®]

It follows because Banvel is an elite product, a top quality product, an economical product (9¢/1000 sq. ft.). The product you can count on to do the important job of eliminating the commonest and toughest broadleaf weeds in a broad range of tolerant turf species.

Banvel 4-S, for instance. Developed specifically to kill "2,4-D tolerant" weeds like knotweed, chickweed, white clover, red sorrel, carpetweed, etc. The weeds that seem to survive other control methods...even rooting out by hand!

How does Banvel 4-S do it? *Translocation*. Banvel uses two avenues of attack; through the leaves and through the roots. By each avenue it then travels *throughout* the weed, no matter how deep-rooted, because it uses the weeds'

circulating fluid systems to move into every living cell.

Although Banvel also kills many of the same broadleaves as 2,4-D, there are some against which it is not as effective. Banvel + 2,4-D, a completely compatible and water soluble Velsicol combination, provides broad spectrum control of this long list of turf-destroying weeds:

Dandelion, plantains, curly dock, chickweeds (common mouse-ear and perennial or stitchwort), dog fennel, knotweed, sheep sorrel, clover, knawel, chicory, henbit, ragweed, pigweed, burdock, poison oak, poison ivy, ground ivy (creeping charlie), wild garlic, wild onion, English daisy, spurge, purslane, pepperweed, lawn burweed, hawkweed, spurry and carpetweed.



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Soil insecticides come and go but Chlordane goes on forever. The reasons are clear-cut. Chlordane kills most common insect pests of turf; also many harmful or annoying insects that live on the surface: white grubs, Japanese beetle larvae, mole crickets, wireworms, ticks, chiggers, cutworms, ants, mosquitoes, sod webworms (lawn moths), earwigs and many others.

Although Chlordane has long-lasting action, *it does not magnify biologically*. Residues have seldom been detected in foods, water, fish, or wildlife. When detected, they have been insignificant.

Chlordane can be applied with standard equipment, in either liquid or dry form. Exact rates and directions for application appear on package labels.

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- Bandane®** pre-emergence crabgrass control, 15% granules.

- 2-1** liquid or dry fungicide.

- PMA 10** phenylmercuric acetate liquid fungicide.

- Thiram 75** non-mercurial wettable powder fungicide.

- Thiram-PMA** broad-spectrum wettable powder fungicide combination.

- Foamwet™** spray adjuvant.

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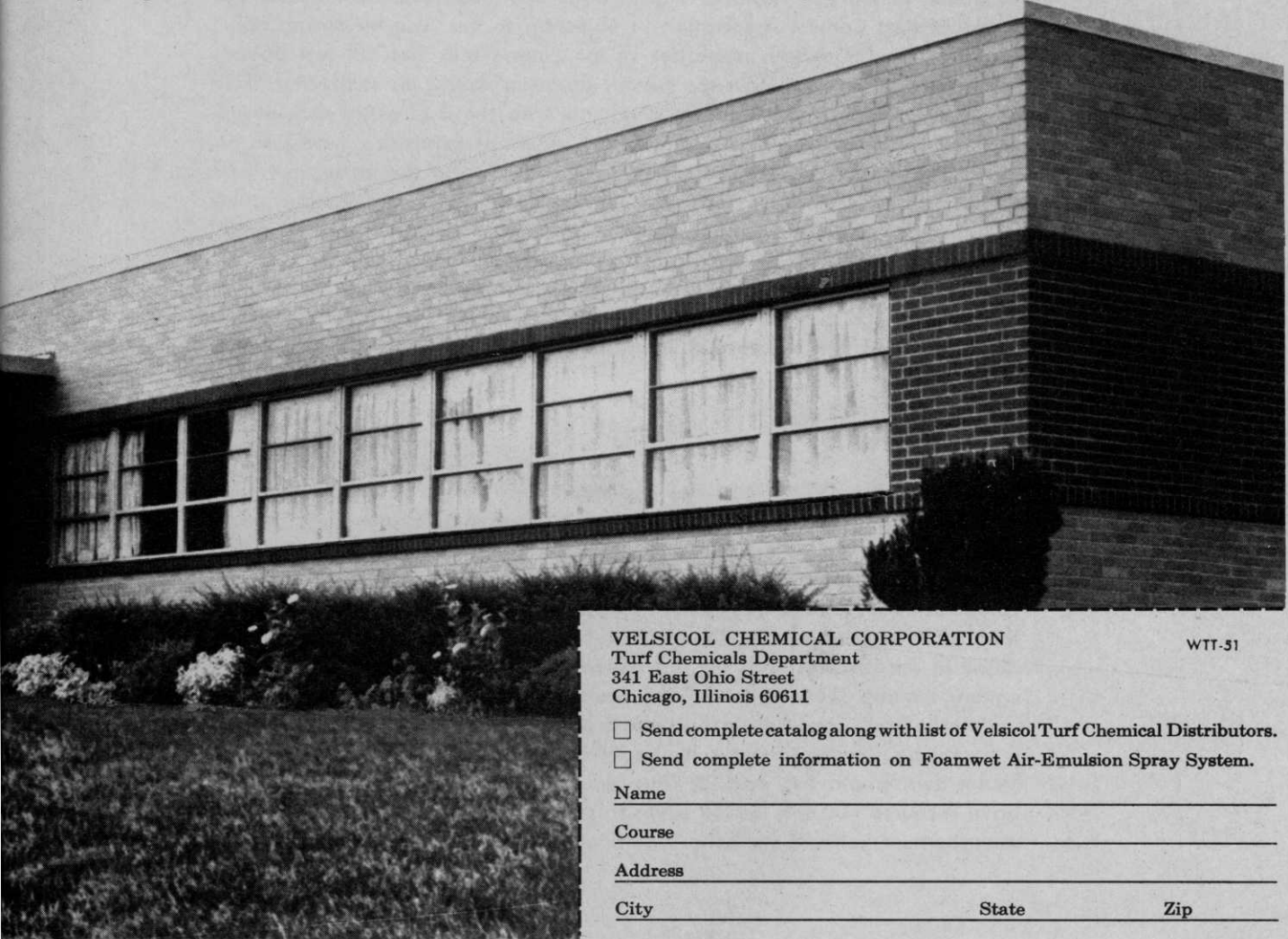
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GENERAL SUPPORT from a wide range of interests is emerging from testimony concerning the two major pesticide bills at congressional committee hearings. The bills are S. 745 and H.R. 4152. But spokesmen from industry, professional associations, and some federal agencies state again and again that the benefit/risk ratio regarding human health and welfare should be the determining factor for any action taken. Under Secretary J. Phil Campbell said USDA "strongly endorses" H.R. 4152, but urged careful attention to interpretation. "Primary consideration," he said, "should be given to the welfare and needs of people when weighing the public interest benefits and risks of using any given pesticide or in cancelling its use. To put the deleterious effects of pesticides on a few species of esthetically desirable birds ahead of the needs of people would be a perversion of human values." Donald Lerch, Jr., speaking for the United States Chamber of Commerce, said "a pesticide should not be banned unless its possible harmful effects on man and the environment are greater than its unique contributions to the improved production of needed food and fiber, to the improved health and comfort of people, and to improvements in our natural environment." The Chamber joined the National Agricultural Chemicals Association and the National Pest Control Association in objecting to the "use by permit only" classification for certain pesticides in the Senate bill. The bill just doesn't spell out clear enough how the permit program would be conducted, they say. Not enough information is given on who the approving consultants would be, what their qualifications are, or what pesticides would be in this category. Further, spokesmen said the execution of the program would be cumbersome to the extent of being unworkable. The Chamber gave support to NACA's alternative to subdivide the "for restricted use only" category into: (a) Those (pesticides) which may be applied only by a licensed or certified applicator because of acute toxicity considerations, and (b) Those which may be subjected to other regulatory restrictions because of a potential for substantial environmental damage.

AMERICAN ASSOCIATION OF NURSERYMEN has expressed support of H.R. 4152 "with certain modifications." These include: (1) Establishing a review committee to issue stop-sale orders on pesticides, rather than giving the power to one person, EPA head William Ruckelshaus; (2) That criteria are lacking for categorizing pesticides into general, restricted and permit-only classes and that such criteria be developed in public hearings and be specified in detail in the law; (3) That permits issued should not specify time of application, leaving the decision of the exact time of application to the user, within the limits specified in the permit; (4) That a farmer who has obtained a permit be allowed to supervise application of pesticides on his own crops by his own employees; and (5) That for permit-only pesticides, users would have recourse through law to cover losses resulting from mistakes by pest management consultants (who would advise and issue the permits).