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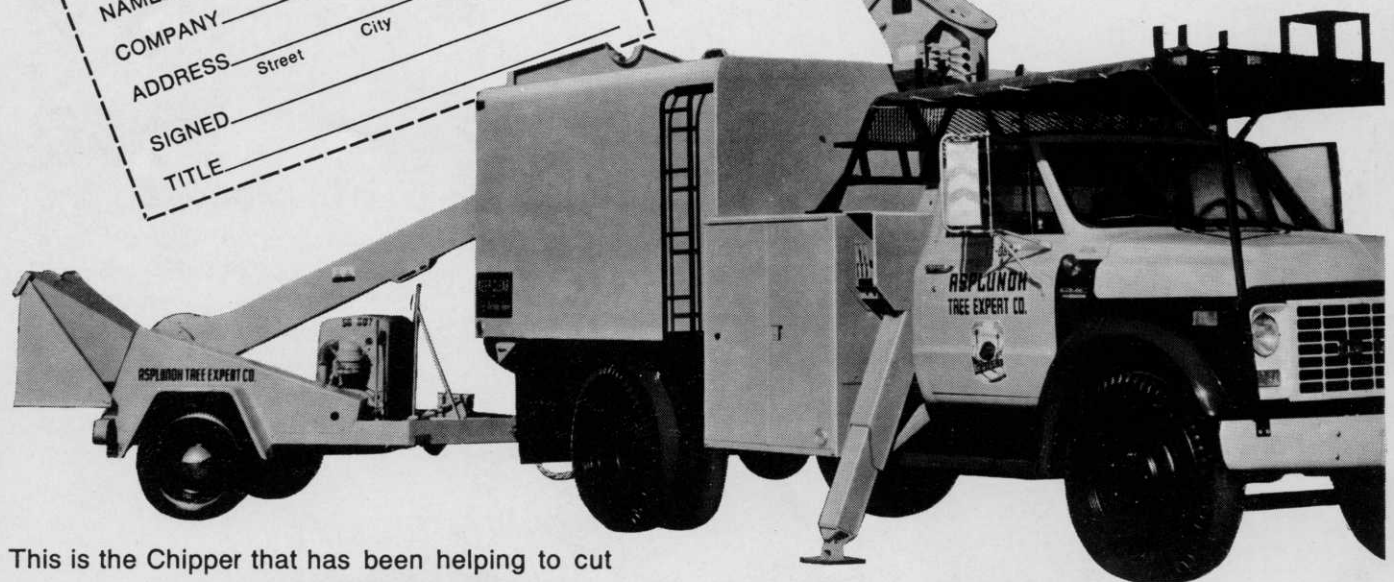
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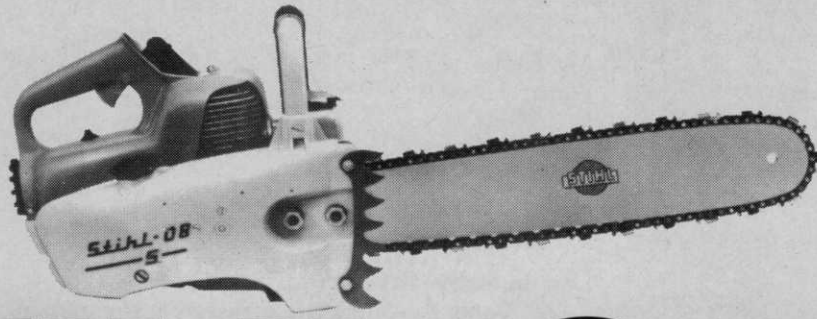
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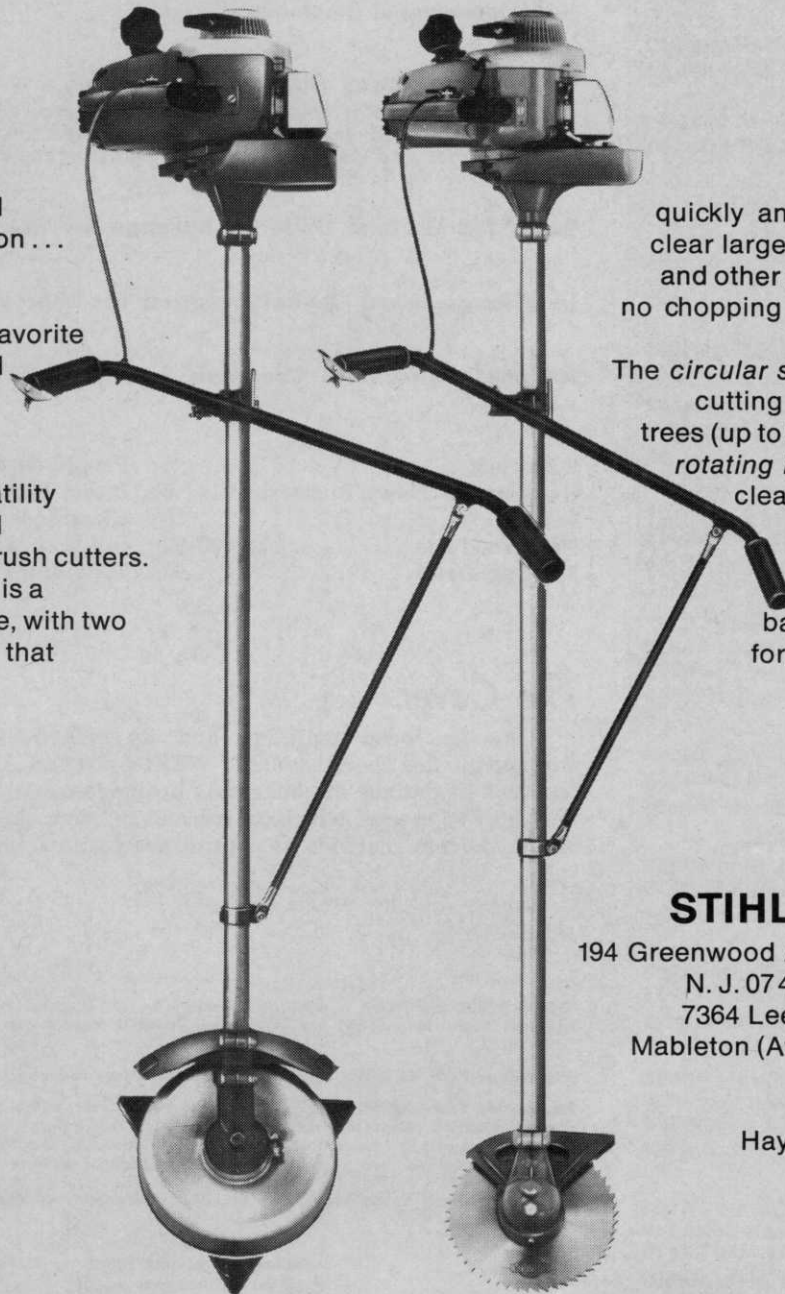
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WEEDS TREES and TURF[®]

Volume 10, No. 7

July, 1971

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An Industry Grows 12

John E. Gallagher, a research scientist for Amchem, reviews the history of aquatic weed control in the United States, complete with references.

Using Available Tools 13

Andy L. Price, veteran aquatic consultant and biologist for Asgrow, presents his ideas on equipment for control of aquatic weed pollution.

Aquatic Weed Control By Strip Treating 14

A method for applying chemicals to aquatic weeds to prevent fish kill is discussed by L. E. Bitting Sr., a water control district superintendent at Plantation, Fla.

Mechanics of Spray Application 16

The physics of using herbicides as a spray to control aquatic weeds is presented by Frank L. Wilson, director of a mosquito control district and an engineer with many years experience in this field.

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The Cover

Aquatic weed pollution and its subsequent control are featured throughout this special issue of WEEDS TREES AND TURF magazine. The aquatics beginning to choke this drainage canal are water hyacinths, one of a host of species which retard and in some cases eliminate use of water areas. Current methods of control are featured in the ensuing pages.

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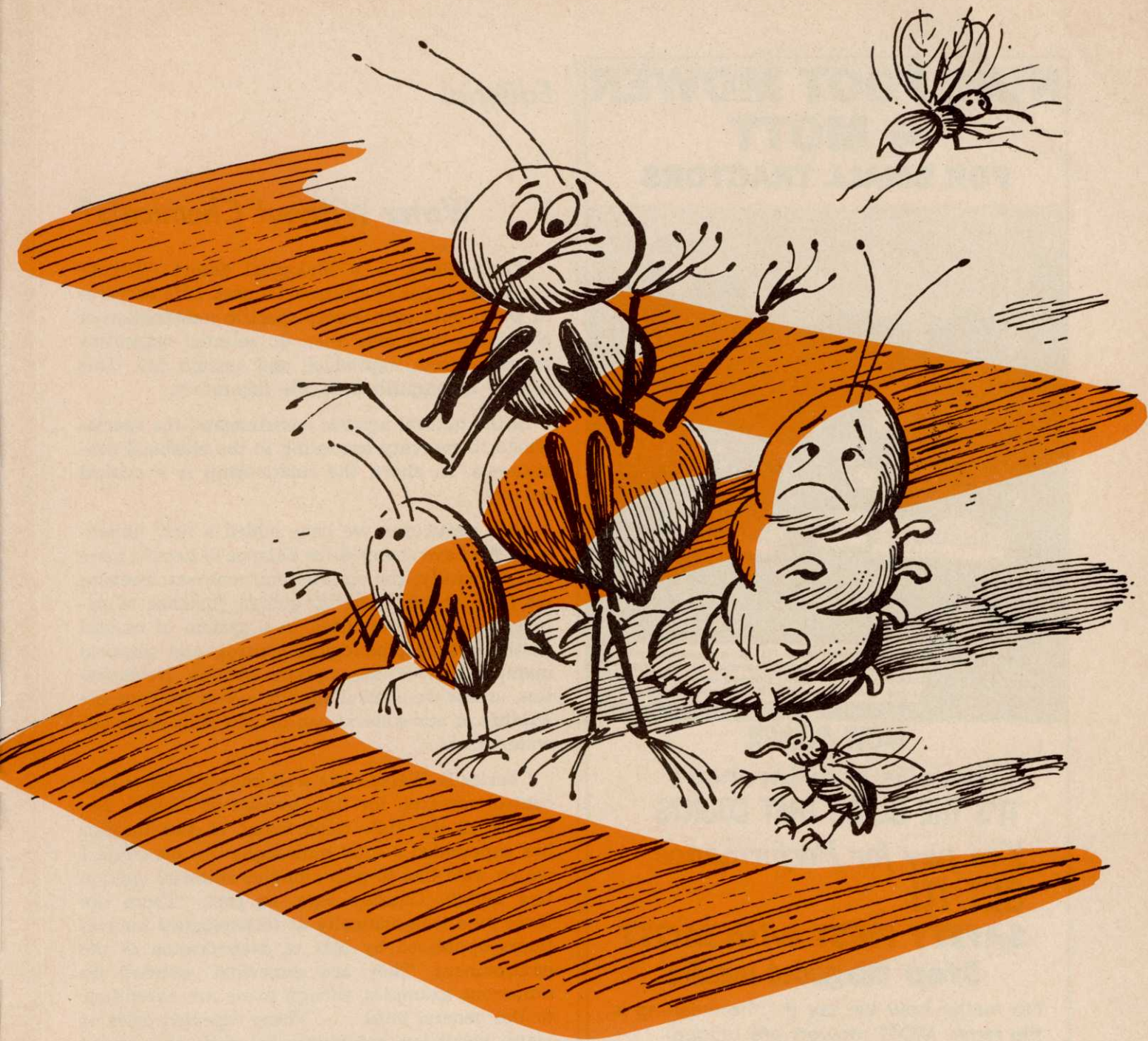
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Editorial

Water Without Chemicals?

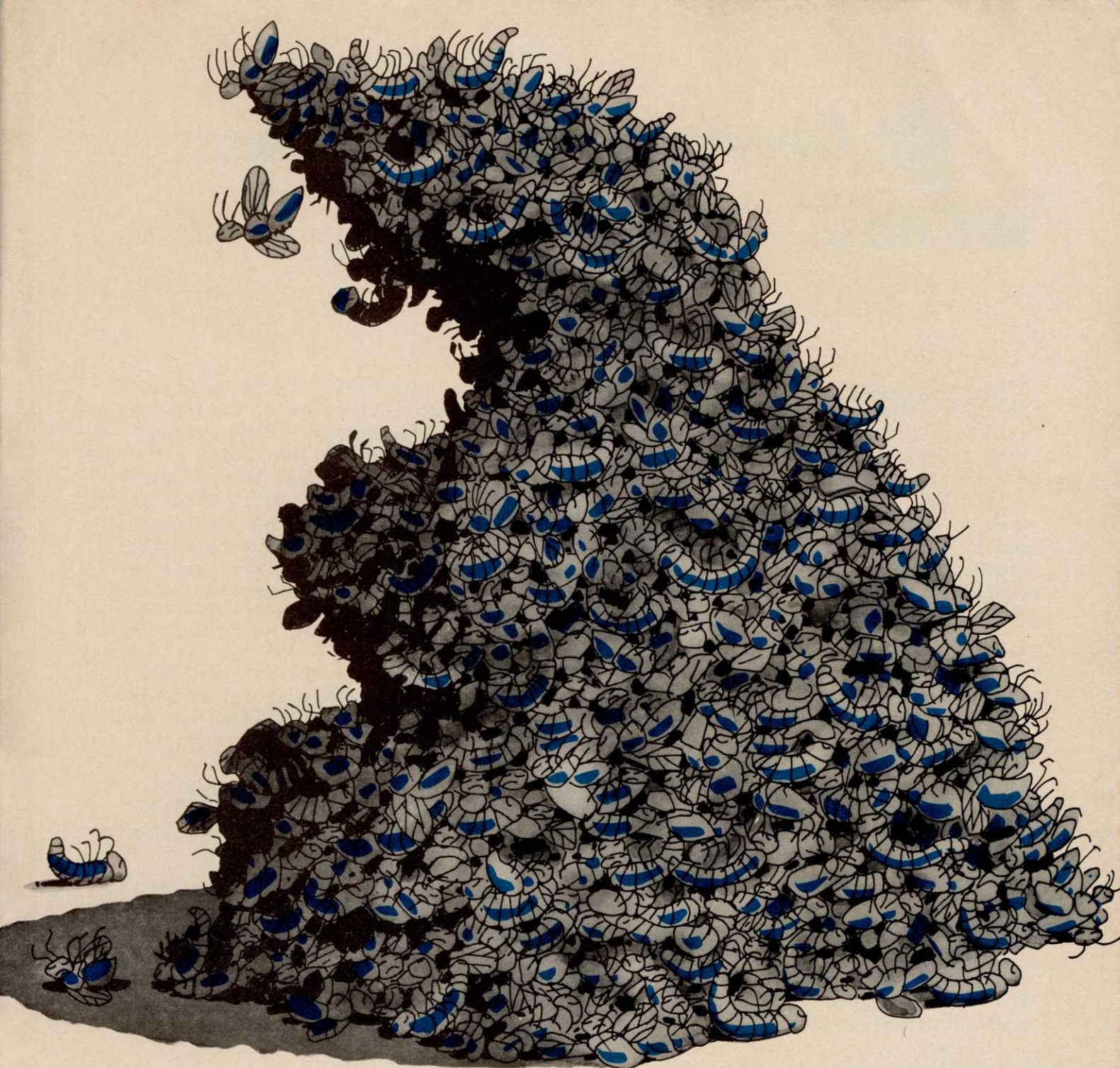
Water alone, is a biological desert. Without chemicals it has few beneficial uses. Life survives in water only with a very specific combination of chemicals—and only then do selected organisms tolerate, grow, reproduce and sustain life. This can be accomplished in the laboratory.

In the natural aquatic environment, the species which thrive vary according to the chemical constituents. In short, the relationship is a critical balance.

With pesticides, we have added a new dimension. We have changed the balance to benefit man, and hopefully, the aquatic environment. Because we have changed the oft-quoted "balance of nature," we are committed to a system of careful pesticide usage, biological control, and physical manipulation of the aquatic habitat. Nevertheless, unless we control aquatic weeds we (nor the wildlife of our waters) can benefit fully from our water areas.

Charles R. Walker, the well-known chief of pest control research for the Division of Fishery Research of the U.S. Department of the Interior has expounded a solid philosophy on this subject which we'd like to pass along as editorial opinion this month. Charley says, in part, "There are those who look critically at technological innovations—oppressed by fear of deterioration of the environment. They are somewhat justified by numerous examples, though many are exceptions to the general rule. . . . These repeated cries of alarm about our environmental crisis are similar to the Aesop Fable of the boy who cried wolf—and unfortunately well-meaning scientists also sound alarms, and often about matters far removed from their own special area of competence. Is it any wonder that the public becomes disillusioned with science and scientists—and then suspicious of our technological improvements? . . . Our understanding is based upon respect for different viewpoints but with critical evaluation subjected by the multidisciplinary scientific community. . . . We cannot afford to ignore the special responsibility of the scientific community to both consider the 'good' and the 'adverse' effects of chemicals.

"We can however, maintain the confidence of the public by hearing out opposing viewpoints. . . . I do wish these issues were tried in the scientific arena rather than the public battleground. . . ."



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Government News / Business

From the Congressional Record A keynote statement developed for the Water Resources Congress by Lt. Gov. Tom Adams, long an active champion of conservation programs, has been reprinted in the Congressional Record. Some quotes bear repeating. Stated Adams: "Ecology...environment...pollution...bio-degradable...have all become catch phrases in a popular cause--and this is as it should be. But they have also, too often, become scare words... 'Wolf' words... used by cynical and selfish people to further their own political or financial gains. One of the goals we must accomplish is to render these polluters of the mind...these distorters of fact...ineffective and impotent so that Americans can be informed properly...can be certain that all of our efforts are toward the same purpose of saving our Nation's natural resources."

And Around the Country From Paris, Tenn., consumer advocate and author James L. Moore announces a statewide consumer protection investigative group, composed primarily of high school and college students. They plan to investigate air and water pollution in the Paris area. Moore, 25, says the group "hopes to collect firsthand evidence of illegal pollution and then seek strict court actions." And in the Bay area of Northern California, the Action for Regional Environmental Agency (AREA) hopes to become the main anti-pollution and conservationist body in nine counties and 91 cities via a coalition of business, civic and environmental leaders. Legislation will be sought to establish it as such.

Tax Relief Bill Sought by NAAA Aerial applicators who are members of the National Agricultural Aviation Association have succeeded in getting a tax relief bill sponsored by Oregon's Al Ullman. The bill (H.R. 8001) seeks to exempt applicators from paying a \$25 registration fee (now totalling \$150,000 yearly) and other taxes on their spraying operations which apply to other types of aircraft business endeavors.

Indemnity For Bee Losses Beekeepers who lose bees as a result of death by pesticides used near colonies may be paid for losses by the USDA. A program just announced indicates that bee owners may apply through ASCS offices for bee deaths dating back to January of 1967.

Interior Dept. Changes Aid Program Regional offices of the U.S. Department of Interior's Bureau of Outdoor Recreation may now review and approve grant-in-aid projects involving public park, open space, and recreation lands and waters. The original 1964 act setting up funds (Land and Water Conservation Fund Act) has dispensed \$503 million through 1971 in 50% matching grants. Decentralization of authority is expected to speed action on many local projects.

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LETTERS TO THE EDITOR

**Municipal Program Draws
Inquiries**

I would like to extend my appreciation as well as that of Mr. Don Smith, the park director, for the fine article of our tree program as published in your WEEDS TREES AND TURF, May, 1971.

The article has brought us numerous inquiries from various administrators associated with city trees. The inquiries have been from Kansas and Nebraska indicating similar problems in this area and the desire for information on how to solve them.

Our department has been a long-time subscriber to your publication, and we have found it very useful in supplying us with background material and new products. I particularly enjoy your "Insect Report" and would like to see it expand to cover more areas of the country. WAYNE WILLMENG, City Forester, Lincoln, Neb.

Sitework Specification Helps

I am a Specifications Writer for The Robinson Green Beretta Corp. I recently saw a copy of your March issue and was very much impressed. This publication appears to have potential value in the writing of sitework specifications. Please advise if the company qualifies for your free mailing list. JOHN BUNCH, Providence, R.I.

Ans. You Qualify.

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Thank you for granting permission to reprint from your magazine. I've added your name to our mailing list and hope you find our Cooperative Extension Service newsletter as useful as we find yours. We heartily endorse all comments and criticism and would enjoy hearing from you from time to time. MAC PERRY, University of Florida, Largo, Fla.

Fine By Us

Needless to say, we were pleased to see the flame weeding article in the April issue of WEEDS TREES AND TURF.

May we, with your permission, re-

produce this for distribution as promotional literature? MAE D. AUCELLO, Suburban Propane, Whippany, N.J.

New Equipment Popular

I want to take a moment and thank WEEDS TREES AND TURF for the splendid coverage you gave our foamer known as Wilsco Foam Spray. Our response to this ad was fantastic. HOWARD RAMPY, JR., Mgr. Wilsco, Houston, Tex.

Our Thanks to Fargo Foundry

I was quite shocked by the picture on the front cover of the May, 1971 issue of WEEDS TREES AND TURF in which roadside spraying is depicted, but I do feel I should commend you for cleaning the matter up and showing the proper way to hold a spray gun on page 15. G. L. PIERCE, Horticultural Inspection Supervisor, Ill. State Dept. of Agriculture, Wheaton.

We're Happy to Cooperate

Preparations are underway for publication of our news bulletin, Arbor Action. As discussed in our telephone conversation, we wish to include a reprint of the Bill Johnson article which appeared in the April issue of WEEDS TREES AND TURF. The source will be duly acknowledged. We are grateful for your cooperation. ALAN P. COLFORD, National Arborist Association, Inc.

The Tampa C of C Helped

The Board of Directors of the Hyacinth Control Society would like to take this means of thanking you for the splendid coverage that you gave us in the recent edition of Weeds, Trees & Turf. The pictures were a story in themselves.

With this fine effort the Society can only grow in membership and carry the communications of this membership to all parts of the world—Environmental Management of Mankind, Control of Noxious Aquatics. ROBERT J. GATES, Secretary-Treasurer, The Hyacinth Control Society.

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