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Balan's new granular size lets you apply it like fertilizer, and makes it easier than ever to effectively control some of your tough weed grasses.

Balan gets the tough ones,

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Goosegrass
(crowsfoot, silver crabgrass and hard crabgrass)*



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(annual bluegrass)



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- South**—S. C. Dolinak
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ELANCO

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It's 1968. The war on brush and light timber clearing has been raging on numerous fronts for years. In the forestry, land development and agricultural industries, armies of men with conventional machines are clearing and controlling brush. Utility, pipeline and railroad right-of-way people are also fighting the heavy growth that hinders maintenance and trouble-free service.

Then, a new, super weapon appears on the battlefield. It's fast and rugged. It doesn't harm the environment chemically or damage the terrain. It replaces five men with farm-type clearing machines and does

their job better and faster. It's economical to operate. It charges through brush and timber up to eight inches in diameter — over any terrain from swamps to foothills. It is, in fact, a revolutionary machine for clearing land and keeping it clear. It's the Kershaw Klearway.

For 1976, we're introducing a new model Klearway that has numerous engineering improvements over previous models. And we're calling the first one "the Spirit of '76" in honor of the American Revolution Bicentennial. It's our way of saluting two successful revolutionary ideas.



KERSHAW KLEARWAY

Agents and Dealers throughout North America
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For a purely beautiful, tough turf, specify Fylking Kentucky bluegrass. Available at your local wholesale seed or sod distributor.



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WEEDS TREES & TURF®

March 1976, Vol. 15, No. 3

14 The Basis for Turfgrass Success — Quality control of grass seed is where it all begins for the turfgrass manager to make sure he has as close to a weed-free stand as he needs. This is a report on Seed Technology, Inc., Marysville, Ohio, and how they test seeds.

19 Tree Feeder System Aids Washington Elms — One of the biggest projects connected with the nation's anniversary is Bicentennial Mall in Washington, D.C. Construction of the mall endangered 120 native American elms that had stood for over 75 years, but a new tree-feeding system was utilized.

20 Sod Producers Updated in Clearwater — Almost 200 members of the American Sod Producers Association traveled to Florida for their winter meeting, and WEEDS TREES & TURF was there to report.

24 Malpass Chosen GCSAA President in Minneapolis — Over 3,000 persons packed Minneapolis Auditorium and Convention Hall for the 47th Golf Course Superintendents of America turf show and conference. A four-page picture report by the WEEDS TREES & TURF staff.

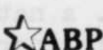
32 New Jersey Turf Expo — In only its second year the combination of the well-known New Jersey Turfgrass Conference and a trade show drew 700 persons to Cherry Hill.

42 New Brush Control Concepts — Portland, Maine arborist Keith Jones has started a brush control program for several areas in his city using a new brush control agent.

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THE COVER — Common foreign matter found in many seed lots: Poa annua, center; lamb's quarter, brown and black seed at left center; smooth brome, upper left; giant foxtail, upper right; tall fescue, right center; chickweed, red seed at lower right; and white clover, yellow seed at bottom.

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Government News Business

The white amur controversy goes on. Florida has placed a temporary moratorium on further stocking of the fish in state waters, according to the Aquatic Plant Management Society. The U. S. Army Corps of Engineers and several Florida state and county agencies have initiated a long-term study in Lake Conway in Orlando. The cooperative study between Florida Game and Freshwater Fish Commission and Department of Natural Resources did not resolve the issue of effect of the white amur on the native fish populations. Several lakes in the state of Florida that have weed problems were stocked with white amur before the stocking moratorium was agreed upon. These lakes are being monitored by various agencies. Weed control results appear too variable in these lakes.

Warren Shaw has been named staff scientist for Weed Science on the National Program Staff of the Agricultural Research Service, U. S. Department of Agriculture. He replaces William Ennis, Jr., who retired. Shaw was formerly the NPS staff scientist for plant physiology and growth regulators from 1972 through last year. He is a past president of the Weed Science Society of America.

Bell Helicopter Co. is now Bell Helicopter Textron. The company is based in Fort Worth, Texas. Bell president James F. Atkins said the name change comes as part of a new corporate-wide identification program of Textron, Inc. for all its divisions. The new identification program is intended to maintain the valuable equities and public recognition of its divisions as well as to identify them visually and verbally with the Textron parent company.

The ever-increasing intrusion of the Occupational Safety and Health Administration and the Environmental Protection Agency may be unconstitutional, according to a Florida golf course superintendent. Dan Hall, superintendent at the Countryside Country Club in Clearwater, spoke at the recent Florida State Golf Association Fall Management Seminar and said: "Gentlemen, we are talking about money. The superintendent is liable, the club is liable as a whole, and club officers and directors are liable if these laws are not kept." He said he feels some of the powers granted to the EPA in recent years are unconstitutional but urged that club managers and superintendents make themselves thoroughly aware of EPA requirements to avoid fines and expensive litigation in the future.

PVC pipe price increases are tied to federal rules, not demand, manufacturers have charged. Precision Polymers, Inc. a national plastic pipe and fittings maker based in Mountainside, N. J., said it is increasing prices of all its polyvinyl chloride pipe and fittings 10 percent last month, and probably by an additional six to eight percent this month. Other companies also have raised prices. Marvin Rosenblum, president of the company, said the major factor in the need for increased prices is the sharply rising cost of vinyl chloride, the major ingredient in PVC pipe. He attributed this to federal standards and to the anticipation of further federal standards. In addition to other restrictions, the federal Environmental Protection Agency has proposed a standard for manufacturers that would require a 90 percent cut in air emissions of vinyl chloride. The agency itself estimated this would cost manufacturers \$198 million plus another \$70 million each year to maintain the required emission of the cancer-linked chemical.



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FMC Environmental
Equipment

Editorial

"The game of golf," University of Maryland agronomist Dr. John R. Hall explained last month, "has been a source of leadership for what's happening in the green industry."

We concur, of course, and hasten to add that the world of golf business has fostered much of the motivation for this leadership as well.

In these days of society's pressures, a higher rate of government participation in industry affairs and the changing needs in our country, qualities of leadership and motivation are becoming more and more important.

Dr. Hall suggests that politics, the energy crisis, food scarcities and similar subjects are going to have quite an impact on golf course management of the future.

For one thing, many new golf courses are going to be on poorer land. There will be more land use restrictions, and alternate uses — bike paths, picnic areas, etc. — are sure to be major considerations for golf courses of the future.

Such technologies as drip irrigation, low nitrogen varieties and growth inhibitors are on their way in.

In a sense, motivation and leadership have brought us to this point. And what a proud accomplishment and heritage golf course management can claim.

The rolling fairways and luxury greens of this land are a tribute to man's science and civilization. But, more than the splendid manicured putting surface, the nation's golf courses have become a monument to man's union with nature.

The golf course has become an oasis in a world of concrete and dust. It is a breath of fresh air. A reward.

The concept of the golf course, moreover, as a playground for the rich, an oasis for kings, a retreat for captains of industry, is having less and less to do with the concept of golf in America.

And Dr. Hall issued the challenge of the decade as he spoke to members of the Golf Course Superintendents Association of America convention in Minneapolis.

"We have to make golf," he said, "the common man's game."

We join Dr. Hall in this challenge. It is an important goal for the survival of quality golf and golf lands. And this, we believe, is necessary in America.

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Just like it will for you.



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Grounds Superintendent,
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Hesston Front Runner. It works for Dwight Brubaker every day at Host Farm. Find out how it'll work for you from your nearest dealer.



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