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**Balan gets the tough ones,**
such as, crabgrass, foxtail, goosegrass and Poa annua.

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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.

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Fylking is pure.

The famous Swedish beauty, Fylking Kentucky bluegrass seed contains no annual bluegrass (*Poa annua*), bentgrass or short-awned foxtail. Strict controls and countless inspections guarantee the physical purity and genetically true seed typical of Fylking Kentucky bluegrass. These procedures make your seed dollars go farther. Fylking is one of the lowest priced elite bluegrass seeds on the market.

Fylking, used as the backbone of your seed mix, will produce a lawn that will make you proud. Fast germination and growth, development of a dense, compact rhizome and root system, make Fylking a natural choice.

Low-growing, low-mowing (low as 1/2 inch), more disease, drought, smog and traffic resistant. Fylking is persistent, brilliant green from early spring to late fall.

For a purely beautiful, tough turf, specify Fylking Kentucky bluegrass. Available at your local wholesale seed or sod distributor.

Fylking Kentucky Bluegrass

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Another fine quality product of Jacklin Seed Company.

Fylking plants started from "original" breeder's seed in sterile greenhouse media are transplanted to fumigated soil in isolated breeders block for seed increase.

Individually harvested, progeny seed from each original "mother plant" is cross tested for genetic purity. Physical and genetic purity are carefully maintained by constant evaluation, chemical spot roguing and physical removal.
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.
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 maratorium 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.
You can't beat a boom for precision.

When you're spraying 3 gal/1000 sq ft of a touchy chemical mix, you need all the control of volume, direction and coverage you can get. And you can see the precision you get with our 1010 utility vehicle sprayer above. It treats a green with care. 19 nozzles on 10" spacings give 15 ft of even coverage and controlled pressure drives the chemical into the problem zone. With stainless steel tank and mechanical agitation. Plus optional hose and gun for spot spraying and tree work. For tees, greens, fairways and around the clubhouse, for fungus, weeds and insects, we have a full range of boom sprayers. And labor-saving air sprayers for turf and tree care. But most important, we have the machines that provide the spray power to meet every professional turf need. Call your local FMC Dealer or call Jack Custer at (501) 935-1970, FMC Corporation, Agricultural Machinery Division, 5601 E. Highland Drive, Jonesboro, Ark. 72401.
"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.
Host Farm Resort — in the heart of Pennsylvania Dutch country, Lancaster County. An all-season resort. That's why Grounds Superintendent Dwight Brubaker and his staff use the all-season performer — Hesston Front Runner GMT. With 250 acres of grounds to maintain — including two golf courses — Brubaker's staff doesn't have time to constantly jump from machine to machine. Or to be slowed by excessive maintenance. That's why they use a reliable, multi-purpose Front Runner.

All three Front Runners — the GMT, Turf Truck and Three Wheeler — take on a variety of heavy-duty grounds maintenance chores. Mow, vacuum, clear snow and more with a choice of 19.8 and 23 hp models. Front-wheel hydrostatic drive provides infinitely variable speeds up to 11 mph plus instant forward/reverse — all controlled through a single lever.

"We have over two miles of rail fences. And the Front Runner's 80" batwing mower reaches under these fences, cutting hand trimming to almost nothing ... it gets in everywhere. We tried regular mowers for this, but they didn't work. Articulated steering really does the job!

"It's faster than the big 5-gang mowers. In 1974, our crew spent about 1454 man-hours on rotary mowing. In 1975, we bought a Front Runner and saved about 454 man-hours, cutting it down about a third to 1000 man-hours ... and mowed more area!

"With the vacuum attachment, we mow and clean at the same time around the hotel and other areas where appearance is especially important. It's also handy for cleaning up after the thatcher. We previously picked up grass trimmings with hand rakes or bag-equipped push mowers. Our Front Runner's eliminated most of that."

**Dwight Brubaker**
Grounds Superintendent, Host Farm Resort

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