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February 1984

## Illinois Rural Electric News



# Lady Plugs In Zoysia Grass Saves Time, Work & Money

## FREE! UP TO 1000 PLUGS!

By Jack T. Johnson  
Agronomist

Every year I watch people pour time and money into lawns that fail them just when they want their lawns the most.

I see them reseed, feed, water, weed and mow, mow, mow! When it turns to hay in mid-summer, I feel like calling out, "For Heaven's sake, when are you going to stop throwing money away and switch to Amazoy Zoysia Grass."

In comparison, I'm always happy to get letters from people who have plugged in my Amazoy Zoysia Grass, because they write to tell me how beautiful their lawns are even in midsummer heat and drought.



### "MOWED IT 2 TIMES," WRITES WOMAN

For example, Mrs. M. R. Mitter writes me how her lawn "...is the envy of all who see it. When everybody's lawns around here are brown from drought ours just stays as green as ever. I've never watered it, only when I put the plugs in... Last summer, we had it mowed (2) times. Another thing, we never have to pull any weeds—it's just wonderful!"

Amazoy is the Trade Mark Registered U.S. Patent Office for our Meyer Z-52 Zoysia Grass.

Wonderful? Yes, Amazoy Zoysia Grass IS wonderful! Plant it now and like Mrs. Mitter you'll cut mowing by 2/3... never have another weed problem all summer long the rest of your life!

And from Iowa came word that the State's largest Men's Garden Club picked a Zoysia lawn as the "top lawn—nearly perfect" in its area. Yet this lawn had been watered only once all summer up to August!

### PERFECT FOR SLOPES

If slopes are a problem, plug in Amazoy and let it stop erosion. Or plug it into hard-to-cover spots, playworn areas, etc.

## WORK LESS · WORRY LESS · SPEND LESS

- Easy To Plant, Easy To Care For
- Perfect For Problem Areas
- Chokes Out Crabgrass
- Reduces Mowing 2/3
- Stays Green Through Droughts
- Resists Blight, Diseases, And Most Insects
- Won't Winter Kill
- Laughs At Water Bans

Your Established Amazoy Lawn...

## No Need to Rip Out Present Grass · Plug in Amazoy!

**FREE** PATENTED STEP-ON PLUGGER, AVAILABLE EXCLUSIVELY FROM AMAZOY. FREE WITH ORDERS OF 1000 PLUGS OR MORE.

A growth-producing 2-way plugger that saves bending, time, work. Cuts away competing growth at same time it digs holes for plugs. Invaluable for transplanting. Rugged yet so light a woman can use it.

Just set Amazoy plugs into holes in ground like a cork in a bottle. (Plant 1 foot apart, checkerboard style.) Easy planting instructions with each order.

Order now for your Bonus Plugs Free, and earliest delivery at correct planting time in your area.

All orders sent shipping/handling charge collect, via most economical means.

### CUTS YOUR WORK, SAVES YOU MONEY

Your deep-rooted, established Amazoy lawn saves you time and money in many ways. It never needs replacement... ends re-seeding forever. Fertilizing and watering (water costs money, too) are rarely if ever needed. It ends the need for crabgrass killers permanently. It cuts pushing a noisy mower in the blistering sun by 2/3.

### WEAR RESISTANT

When America's largest University tested 13 leading grasses for wear resistance, such as foot scuffing, the Zoysia (matrella and japonica Meyer Z-52) led all others.

Your Amazoy lawn takes such wear as cookouts, lawn parties, lawn furniture, etc. Grows so thick you could play football on it and not get your feet muddy. Even if children play on it, they won't hurt it—or themselves.

### CHOKES OUT CRABGRASS

Thick, rich, luxurious, established Amazoy grows into a carpet of grass that chokes out crabgrass and weeds all summer long. It will NOT winter kill. Goes off its green color after killing frosts. Begins regaining its green color at the time when the temperature in the spring is consistently warm. This, of course, varies with climate.

### NO NEED TO RIP OUT PRESENT GRASS

Now's the time to order your Amazoy Zoysia plugs—to get started on a lawn that will choke out crabgrass and weeds all summer long and year after year.

Plug it into an entire lawn or limited "problem areas." Plug it into poor soil, "builder's soil," clay or sandy soils—even salty, beach areas, and I guarantee it to grow!

### Your Own Supply of Plug Transplants

Your established Amazoy lawn provides you with Amazoy Zoysia plugs for other areas as you may desire.

## NEW LOW PRICE

EVERY PLUG GUARANTEED TO GROW  
In Your Area · In Your Soil

- AMAZOY WON'T WINTER KILL—has survived temperatures 30° below zero!
- AMAZOY WON'T HEAT KILL—when other grasses burn out, Amazoy remains green and lovely!

Every plug must grow within 45 days or we replace it free. Since we're hardly in business for the fun of it, you know we have to be sure of our product.

### PLUG AMAZOY INTO OLD LAWN, NEW GROUND OR NURSERY AREA

Just set Amazoy plugs into holes in ground like a cork in a bottle. Plant 1 foot apart, checkerboard style.

When planted in existing lawn areas plugs will spread to drive out old, unwanted growth, including weeds. Easy planting instructions with order.

### NO SOD, NO SEED

There's no seed that produces winter-hardy Meyer Z-52 Zoysia. Grass and sod or ordinary grass carries with it the same problems as seed—like weeds, diseases, frequent mowing, burning out, etc. That's why Amazoy comes in pre-cut plugs...your assurance of lawn success.

## FREE! UP TO 1000 PLUGS

Just for Ordering Now!

More than a HALF BILLION of our Zoysia plugs have been sold. Our Early Bird Bonus Plug Offer means clear savings to you. Order now—don't take another chance with lawn disappointment. And remember: If it isn't AMAZOY, you're not getting the plugs that made Zoysia famous.

To: Zoysia Farm Nurseries, Dept. 646  
(Our 29th Year) General Offices and Store  
110 Painters Mill Rd., Owings Mills, MD 21117  
Please send me guaranteed Amazoy as checked below:

02C-1

<input type="checkbox"/> 50 PLUGS Plus Bonus of 15 FREE TOTAL 65 PLUGS \$185	<input type="checkbox"/> 100 PLUGS Plus Bonus of 35 FREE TOTAL 135 PLUGS \$345	<input type="checkbox"/> 100 PLUGS & PLUGGER Plus Bonus of 35 FREE TOTAL 135 PLUGS \$645	<input type="checkbox"/> 200 PLUGS & PLUGGER Plus Bonus of 70 FREE TOTAL 270 PLUGS \$645	<input type="checkbox"/> 200 PLUGS & PLUGGER Plus Bonus of 70 FREE TOTAL 270 PLUGS \$945
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CITY \_\_\_\_\_  Visa  Master Card

STATE \_\_\_\_\_ ZIP \_\_\_\_\_ Expires \_\_\_\_\_

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Card # \_\_\_\_\_

ILLINOIS RURAL ELECTRIC NEWS

# Illinois Rural Electric News

## RE program receives AFBF support

The nation's largest farm organization — the American Farm Bureau Federation — has joined a number of state Farm Bureaus in strongly endorsing rural electric and telephone legislation pending in Congress.

During its Annual Meeting Jan. 8-12 in Orlando, Fla., the voting delegates of the Federation approved a resolution supporting the rural electrification program and specifically endorsed the conversion of notes due the U.S. Treasury beginning in 1993 into equity capital of the REA Revolving Fund as called for in the Rural Electrification and Telephone Revolving Fund Self-Sufficiency Act of 1983, H.R. 3050 and S. 1300.

The Federation resolution, "Rural Electric Utilities," reads:

*We support rural electric cooperatives organized and operated in accordance with accepted cooperative principles and practices. We oppose any plan or effort to convert rural electric cooperatives into a public power system.*

*We urge efforts on the part of both the private companies and rural electric cooperatives to reach agreements that will be in the best long-term interest of all concerned. Duplication of services is not in the public interest.*

*If satisfactory agreements cannot be reached for the necessary amounts of energy for farm use at competitive rates, we support the use of Rural Electrification Administration (REA) loan funds to finance the generation and transmission facilities farmers need. We oppose any efforts to change the present law which makes this possible. Rural*

*electric cooperatives and the Tennessee Valley Authority should not participate in financing programs and activities other than those for which they were organized.*

*We urge the members of the rural electric cooperatives to continue to support the National Rural Utility Cooperative Finance Corporation (CFC) as a means to supplement the shortage of federal funds.*

*We believe that a properly designed federal revolving fund can and should be an integral part of the means to provide the rural electric cooperatives adequate credit to maintain and strengthen their systems. Such a revolving fund should include an adequate rate of interest to keep the fund solvent and be used in conjunction with private capital to finance the system. In order to assure an adequate capital base, we support making funds used for REA lending prior to 1973 as a permanent capital investment in the revolving fund.*

*We support the present REA criteria used to determine on an individual basis the interest rates a borrower can afford.*

*We oppose invalidation of existing contracts by federal and state governments for natural gas to generate electricity.*

The resolution includes the language adopted at the Illinois Farm Bureau Annual Meeting in December, which called for support in making funds used for REA lending prior to 1973 as a permanent capital investment in the revolving fund in order to assure an adequate capital base.

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(Editor's note: This report on acid rain has been prepared by the Illinois Coal Association. Joe Spivey is president of the ICA and Taylor Pensoneau is vice president. The report examines the scope of the acid rain issue, the political and emotional aspects, and the economic consequences of various legislative proposals, especially for Illinois electric consumers and the state's coal industry.

# Acid rain question creates complex problem

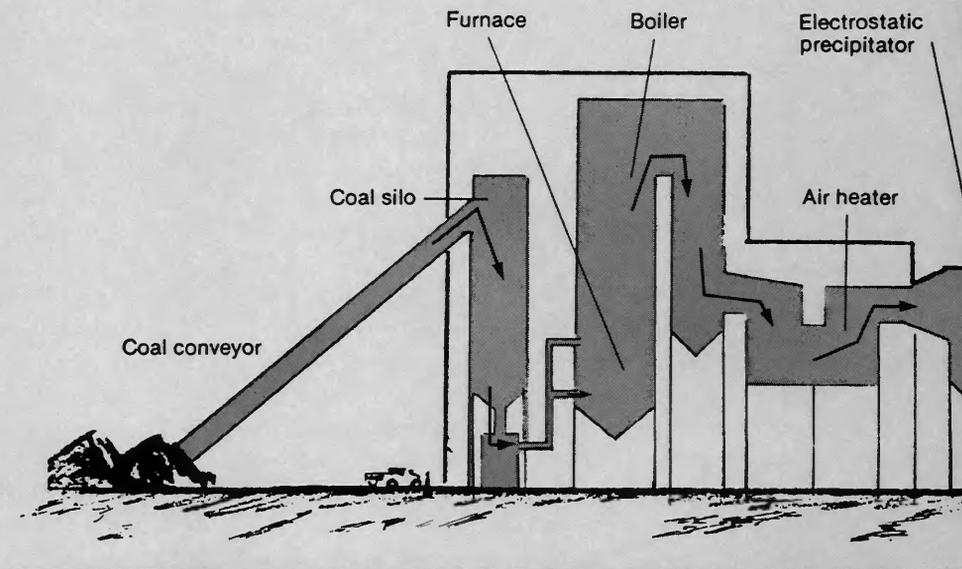
Some persons call acid rain the foremost environmental controversy of the 1980s. For political scientists, it is a dandy of a donnybrook pitting the Midwest against the Northeast, and Canada to boot, in a classic political showdown. It's a ripe issue for journalists, too. The name acid rain alone, a publicist's dream, guarantees eye-catching headlines.

However, for the coal industry the acid rain issue is a nightmare — a controversy threatening to railroad the industry, especially the high-sulfur coal industry of the Midwest, back into the economic doldrums from which it was slowly but clearly emerging during the last decade.

Such a slide, unacceptable as it would be, still might be somewhat understandable if it was justified. But that is not the case at this point. The only assessment on acid rain that can be made with any certainty at this juncture is that uncertainty reigns. Contrary to what one often reads, the world's best scientists are not in agreement on the causes and effects of the acid rain phenomenon. The General Accounting Office in Washington hit it on the nose when it termed acid rain one of the most polarizing but least comprehensible issues of the day.

Most environmental organizations hold that acid rain is caused when sulfurous emissions and nitrogen oxides — mainly from coal-burning power plants — combine with other substances in the atmosphere and are transported hundreds of miles to fall as increasingly acidic rain or other forms of precipitation in the Northeast and in eastern Canada. According to this theory, the increased acidity has been linked to fish kills and damage to forests in those areas.

Now, the coal industry, in Illinois and around the country, does not dis-



pute the much-publicized findings that something is happening to some lakes in parts of the Northeast and eastern Canada. However, the coal industry and many scientists do dispute whether the higher-than-normal acidity of these lakes is linked by any available evidence to sulfur emissions from electric power plants in the Midwest. And, there remains a great deal of honest and serious disagreement among scientists as to the nature of the causes and effects of acid deposition.

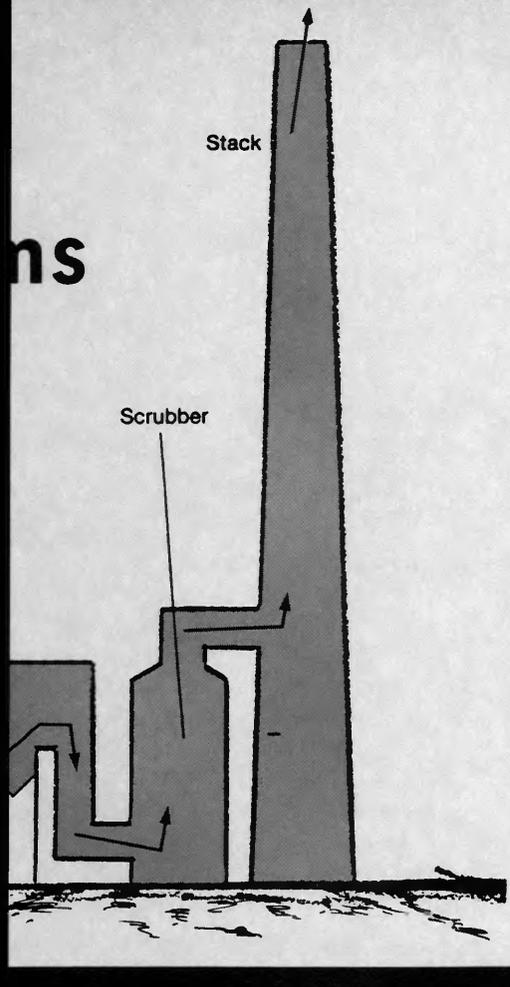
For that reason, the coal industry continues to stand opposed to efforts in Congress to place further stringent regulations on emissions from coal-fired utilities in the Midwest. Studies by the U.S. Department of Energy and other government agencies, by private but independent analysts and by, yes, coal companies show that the so-called acid rain crackdown legislation pending in Congress would cause devastating economic consequences for the coal industry and utility consumers in the Midwest. Many persons with some understanding of this issue feel that

the proposed crackdown legislation represents the worst of all worlds — an added cost to Americans of billions of dollars without effectively dealing with the issue.

The coal industry does endorse proposed legislation currently before Congress that provides for an accelerated research program to investigate and, if possible, document the causes of acid rain. Because of this posture, the coal industry undoubtedly will face continued criticism from some leading environmentalists and some major editorial writers for engaging in stalling tactics. However, the coal industry continues to insist that a rational and reasonable attempt must be made to get the necessary answers on this issue before any broad-scale control program is initiated. To do otherwise at this point would be to surrender to inflammatory rhetoric unsupported by scientific facts.

It is important to emphasize that many parties involved in the acid rain debate, including numerous coal industry leaders, do agree on certain points as a basis for future considera-

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Stack

Scrubber

tion of the issue.

They include the following:

- Recognition that acid deposition is a public environmental concern,
- Recognition of the continuing significant doubt about the history, trends and effects of acid deposition,
- Recognition of the existence of tremendous regional differences in respect to the possible causes of acidity and in respect to the sensitivity of the environment to the acidity factor, and

- Belief that many of the stated effects of acid deposition up to this point can be mitigated without the imposition of an enormous new financial burden on Americans.

The sulfur and nitrogen oxides which are believed by a number of persons to be main precursors of acid deposition are generated by a variety of sources, both natural and manmade. Natural sources include bacterial decomposition of organic matter in soil, volcanoes, lightning and forest fires. The burning of fossil fuels — such as coal and oil — for the generation of electricity, motor vehicle

February 1984

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*Options for emission reduction begin outside the power plant, with the fuel source (left) — outright switching, blending, or cleaning coal to lower sulfur content. This option poses serious concerns for the coal industry of Illinois. Once the combustion process has begun, technological changes (including costs that would be reflected in consumer prices) could provide a means of reducing emissions. The post combustion controls, scrubbers, fit into the fuel path just before the exhaust stack. Scrubbers are expensive to retrofit and to operate. They can add considerably to consumer costs.*

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exhaust emissions and industrial facilities, such as smelters for production of metals, are viewed widely as the primary manmade sources. But, the relative amounts derived from these categories is not well understood. Also, ongoing research in the past two to three years into the complexities of atmospheric chemistry and into the impact of acid deposition on sensitive ecosystems already has changed the way some informed people perceive acid deposition.

#### RESEARCH IS THE ANSWER

Research represents the answer to clarification and possible solution of the acid rain issue. The coal industry itself is participating in a national acid precipitation monitoring network ranging from the Rocky Mountains to New England. The Electric Power Research Institute has spent \$15 million on acid deposition research and has committed another \$17 million for future studies. The federal government research program — including the 10-year research program on acid rain mandated by Congress in 1980 — is moving ahead. Incidentally, it is the work of that congressionally mandated research project that the coal industry wants to accelerate so as to have results available in five instead of 10 years. On the research side of things, it should also be noted that the highly respected Illinois State Water Survey is handling much of the laboratory analysis for the rainfall samples being collected as part of the major acid rain research now being conducted.

While this research is intended to provide answers to what we don't know about acid rain, there are some things about the debate on this issue that we do know.

We know that there is no evidence

— in spite of the scare tactics of certain organizations on this issue — that acid rain affects human health. We are aware that some of the same New Englanders who want to tighten pollution controls in the Midwest also want to ease them in their home states.

And then there is the Canadian factor. Canadian representatives are lobbying heavily in the United States for the stringent crackdown legislation on acid rain, measures calling for sizable reductions in sulfur dioxide emissions from, for the most part, coal-burning facilities in the Midwest. As a result, Canada has attempted to make the acid rain issue a key element in its relationship with the United States. This is ironic — or, to be more accurate — more than a little hypocritical.

In this country, sulfur dioxide emissions have decreased markedly during the last decade in line with implementation of federal and state clean air programs. For instance, the federal Environmental Protection Agency is reporting that atmospheric concentrations of sulfur dioxide are now two-thirds less than those measured in the mid 1960s. Actual sulfur dioxide emissions from manmade sources, the EPA says, dropped nationwide by 7 percent between 1970 and 1979.

Furthermore, an even larger decline was said to have been attained by midwestern utilities through compliance with the existing requirements of the federal Clean Air Act.

On the other hand, Canada has no comparable program for reducing sulfur dioxide emissions. There are more than 90 scrubbers operating in the United States at an annual estimated cost of \$2 billion. Canada probably has none. In the United States, federal requirements mandate that all new utility plants burning coal

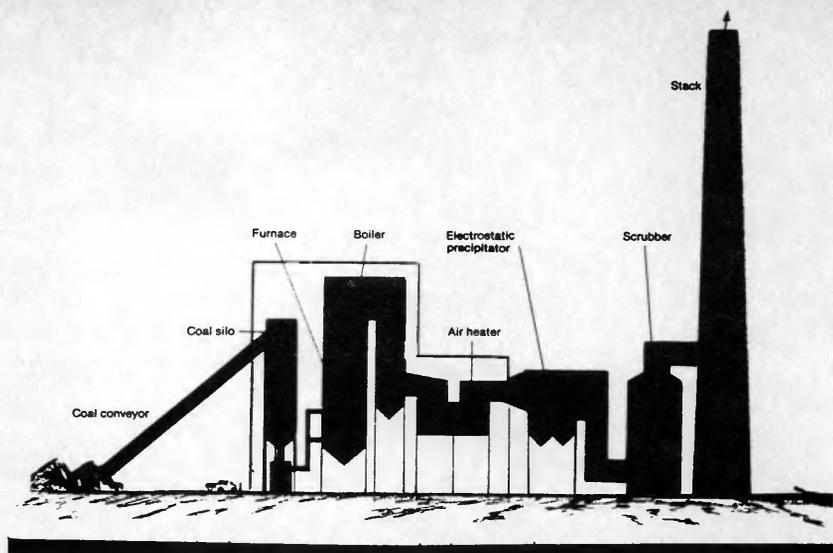
must install scrubbers — meaning that sulfur dioxide problems will be phased out as old utilities are replaced. According to the Congressional Record, Canada has “no effective federal standards for utility plants.” Finally, but perhaps most significant, Canadian utilities have a lot of reserve power or capacity in their power generating facilities which they actively have been trying to export to the United States. If the output of certain utilities in the United States was reduced as an outgrowth of the acid rain issue, then the Canadian utilities would have an opening for new market opportunities.

The intrusion of Canadian lobbyists into the acid rain debate in this country is certainly one of the most extraordinary elements of the controversy. The Canadians have enjoyed a field day in getting their contentions aired fully and with little questioning by much of the media in the United States.

At the same time, attempts by industry spokesmen and others countering the Canadian offensive more often than not either have received scant notice or have been ignored. Consequently, there has been no stronger voice than the Canadian one for the stringent acid rain control legislation now before Congress. Any of several bills would require enormously costly sulfur dioxide emission abatement strategies — programs that would impose considerable costs on a select few states. More than 60 percent of the cost of meeting the proposed legislation would be borne by residents of Illinois and other parts of the Midwest. Only 4 percent would be borne by the people of seven northeastern states where acid deposition is said to be most evident.

In Illinois, the state Environmental Protection Agency has warned, the proposed federal acid rain control legislation could drive up electric bills as much as 24 percent or gut the state’s coal industry. And electric bills in the other states east of the Mississippi River could rise \$3 billion to \$7 billion annually, the federal EPA has estimated.

Even more stunning, though, are the potential job losses and other economic setbacks facing the Midwest



in the event of passage and implementation of the proposed acid rain control legislation.

Take Illinois for instance. Both the U.S. Department of Energy and the Congressional Research Service of the U. S. Library of Congress have reported that based on studies most utilities now burning Illinois coal will switch to low-sulfur western coal as the least costly way to comply with the stringent sulfur dioxide reductions called for in the proposed legislation.

By 1995, Illinois coal production would drop by at least 40 percent if the legislation became law. As a result, the studies concluded, more than 21,000 Illinois miners and allied workers would face loss of their jobs. Extension of this job loss projection to 11 other coal mining states in the Midwest and Appalachia shows that an estimated 43,000 coal mining jobs would be lost in those states, along with the elimination of another 129,000 jobs dependent on coal mining.

#### RESPONSIBILITY AND ACCOUNTABILITY

The challenge is to exercise responsibility and accountability to ensure that the acid rain issue is addressed appropriately and adequately without abrupt decisions that could result in substantial economic and personal hardship.

A research bill on the acid rain issue was introduced in each house last year. The two bills are alike.

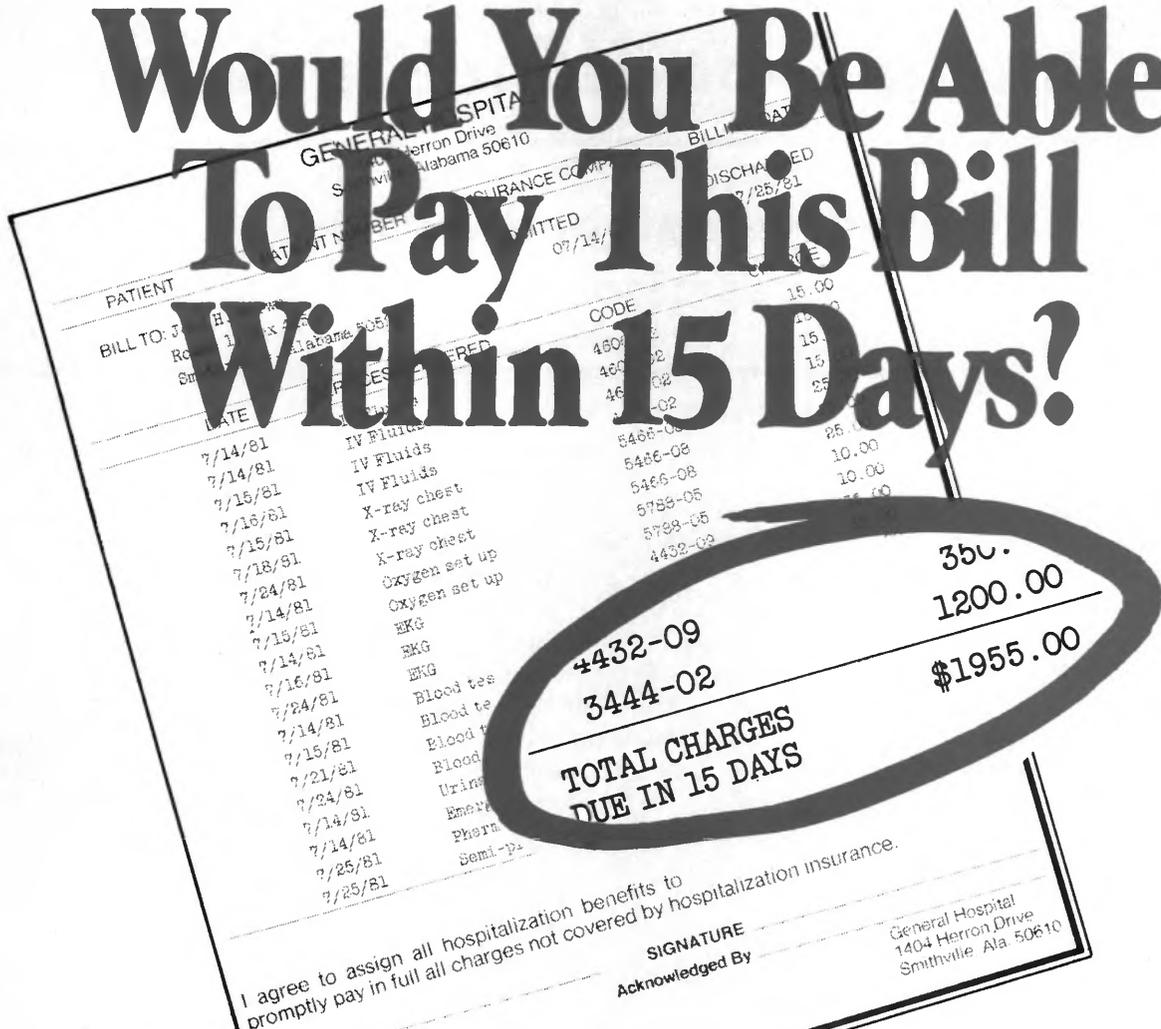
Each bill would require submission to Congress by August 1987 of a report and recommendations on steps,

if necessary, to deal with acid deposition. This represents an accelerated target date for the reporting deadline for research on this issue already mandated by Congress. In addition, the bills each authorize the federal EPA to make grants covering up to 75 percent of the costs to states or interstate agencies for developing, refining, demonstrating and implementing methods of mitigating the effects of acidity. Such methods could include the neutralizing of excess acidity in lakes and streams.

This proposed legislation would provide a solid foundation for understanding whether and to what extent a problem exists. It would provide the time needed to address the issue effectively, efficiently and economically. To deal with the problem of high acidity in some bodies of water — perhaps caused by mechanisms unrelated to distant coal burning — steps could be taken to mitigate any undesirable effects while researchers find answers to many questions surrounding the issue.

Two words frequently found in environmental law decisions are “reasonableness” and “balancing.” To initiate an acid rain program that would imperil thousands of jobs on the chance that sulfur dioxide emission reductions would reduce acid precipitation hardly seems reasonable. And, to the extent a balancing test might be employed, the impact upon jobs appears to outweigh at this point unsubstantiated and disputed claims that acid rain from coal-fired utilities is posing an environmental hazard.

# Would You Be Able To Pay This Bill Within 15 Days?



Hospitalization ... now averages almost \$300 per day, according to the Health Insurance Association of America. Basic hospital plans, like the one you may have to work, on the average pay less than 80% of the bill.

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The CO-OP INSURANCE FUND Hospital Income Plan will **pay you up to \$50.00 a day, or \$1500.00 a month**, for each and every day you're hospitalized, beginning your very first day for all covered illnesses and accidents. **Cash Benefits**, straight to you, in addition to any other hospital plan you might have. **AND YOUR ACCEPTANCE IS GUARANTEED!**

It's a fact, one out of every three families will be hit by hospitalization this year ... according to the American Hospital Association. Protect your family ... send in this coupon for more information today. You will be under no obligation and no salesman will call.

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Month/Day/Year

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# Farm Materials Handling Show

## Stray voltage and wiring are seminar topics

Two special seminar presentations will highlight the 1984 Southern Illinois Farm Materials Handling Show February 28-March 1 in Nashville. The show will be held at the Washington County Fairgrounds.

On Tuesday, February 28, show sponsors have scheduled a seminar on "Stray Voltage" at 11 a.m., 1 p.m. and 3 p.m. "Wiring in a Hostile Environment" is the topic of a seminar on

Wednesday also to be presented at 11, 1 and 3.

The annual event, one of the largest farm machinery and equipment shows in the state, attracts large numbers of exhibitors and visitors.

Show hours are 9 a.m. until 9 p.m. on February 28 and 29, and from 9 a.m. until 3 p.m. on March 1. Admission is free. Many of the exhibits are housed in all-weather exhibit halls.

Meals will be available on the grounds.

The show, now in its 23rd year, is sponsored by Southern Illinois University-Carbondale, Cooperative Extension Service, Illinois Farm Electrification Council, Illinois Power Company, and eight electric cooperatives in the region: Clinton County Electric Cooperative, Breese; Egyptian Electric Cooperative Association, Steeleville; Monroe County Electric Co-Operative, Waterloo; Southeastern Illinois Electric Cooperative, Eldorado; Southern Illinois Electric Cooperative, Dongola; Southwestern Electric Cooperative, Greenville; Tri-County Electric Cooperative, Mt. Vernon; and Wayne-White Counties Electric Cooperative, Fairfield.

Several cooperative personnel are active in the planning and organization of the show, including Vic Ketten, recently retired from Southwestern Electric Cooperative, Greenville, general chairman of the show committee; Harry Buller, Clinton County Electric Cooperative, Breese, publicity chairman; and Andy Bird, Tri-County Electric Cooperative, Mt. Vernon, treasurer; and Royce Carter, Wayne-White Counties Electric Cooperative, Fairfield, exhibits chairman.

Show sponsors cite three main objectives for the exhibit:

- To provide a continued service to persons living in rural and suburban areas of Southern Illinois and the surrounding region.
- To provide agriculture professionals and agriculture students an opportunity to view the latest in farm mechanization and home equipment.
- To provide equipment dealers and manufacturers an opportunity to exhibit and demonstrate equipment.



# NURSERY STOCK SALE

ORDER FROM THIS THREE-PAGE AD AND SAVE UP TO 40% FROM CATALOGUE PRICE

Planting instructions included in each order, every plant will be labeled.

Notice: Orders of \$25 or more — take 10% discount off price of order.

## SHADE TREES and FLOWERING TREES 1 or 2 Years Old



**WHITE BIRCH**  
4 to 5 ft. .... 1.75 ea. 10 for 15.00  
Many people know this eye-catching native tree as White Birch or Canoe Birch. The White bark and clear yellow leaves in fall provide showy colors. Height 60 feet, spread 30 feet.

**PIN OAK**  
3 to 5 ft. .... 1.98 ea. 10 for 17.50  
The Pin Oak is a handsome tree, especially when young, often used for avenues. Grows rapidly and prefers somewhat moist soil. Foliage bright red in fall.



**AMERICAN REDBUD**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
The Redbud is often used as a specimen or to provide a high point in a shrub border. Branches are covered with small, pea-like purplish pink blossoms before the foliage comes out in spring. Ultimate height 15 feet.

**GOLDEN RAIN TREE**  
3 to 4 ft. .... 2.98 ea. 10 for 29.00  
This medium sized tree does not usually grow over 30 feet tall. Does well in a variety of soils, but seems better suited to open sunshine than to shade. Midsummer brings showy 12 to 18 inch clusters of lemon-yellow flowers.

**BRADFORD FLOWERING PEAR**  
2½ to 4 ft. .... 5.98 ea. 10 for 59.50  
Very desirable, medium sized, non-fruiting tree with erect, upsweeping branches. Snowy white blossoms in spring and striking bronze-red foliage in fall.

**MIMOSA — Pink**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
Small ornamental tree widely planted throughout the south. Grows to blooming size in a short time and masses of pink flowers are borne through early summer. A good flowering tree for almost any soil condition.

**MAGNOLIA GRANDIFLORA**  
½ to 1 ft. .... 1.45 ea. 10 for 14.50  
Magnificent specimen tree with big glossy leaves and fragrant white flowers. Grows to about 40 feet.

**DOUBLE PINK FLOW. CHERRY**  
3 to 5 ft. .... 5.95 ea. 10 for 58.50  
The upright form of the famous Japanese Cherries. An outstanding specimen for the lawn. Very large, double pink blossoms in early spring. Ultimate height 30 feet.

**CONCORD GRAPE**  
1 to 2 ft. .... 79¢ ea. 10 for 7.50  
The Concord Grape is one of the most popular and reliable grapes ever grown. Bunch is large and round and well shouldered. Berries are large and round, almost black in color. Juicy and delicious with a very sweet, buttery flavor.



**RED MAPLE — Collected**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
A large growing Maple tree that is known for its beautiful flowers, appearing before leaves and for its attractive red in autumn. Does well in moist or damp places.

**SILVER MAPLE**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
A very fast growing, soft wooded tree reaching a height of 30 to 60 feet. Leaves deeply cut and very attractive, being a silvery white underneath.

**LOMBARDY POPLAR**  
1 to 3 ft. .... 39¢ ea. 10 for 3.50  
3 to 5 ft. .... 79¢ ea. 10 for 7.50  
Suitable as a background, along driveways, screening off outbuildings and other unsightly objects.

**JAPANESE RED LEAF MAPLE**  
1 ft. .... 2.98 ea. 10 for 29.00  
A lovely red leafed tree for accents, not large, can be grown as a bush if desired.

**PAW PAW**  
3 to 5 ft. .... 1.98 ea. 10 for 19.50  
A small tree that forms colonies from root sprouts, with straight trunk, spreading branches, and large leaves. Height 30 ft. Fruit 3 to 5 in. long, edible soft yellowish pulp has flavor of custard.

**RED FLOWERING DOGWOOD**  
2 ft. .... 4.95 ea. 10 for 47.50  
3 to 4 ft. .... 8.95 ea. 10 for 85.00  
Truly Red Flowering Dogwood. Beautiful, deep ruby-red which holds up throughout the blooming season. Growth habits of the tree similar to White and Pink Flowering Dogwoods, different only by having deep ruby-red flowers and red coloring in the new growth.

### SEMI-DWARF APPLES

We offer you eight of the most popular varieties of Semi-Dwarf Apples. They are the most productive tree, grow 12 to 15 feet tall. Gives you more fruit per limb, more fruit per tree.

#### VARIETIES:

- RED DELICIOUS APPLE**
  - STAYMAN WINESAP APPLE**
  - JONATHAN APPLE**
  - RED ROME BEAUTY APPLE**
  - GOLDEN NUGGET APPLE**
  - GOLDEN DELICIOUS APPLE**
  - GRIMES GOLDEN APPLE**
  - LODI APPLE**
- All Above 3 to 5 ft. .... 2.98 ea. 10 for 27.50



**SEEDLESS GRAPES, Varieties:**  
**Concord (Blue), Lakemont (White), Suffolk (Red).**  
These seedless grapes ripen in Sept.  
½-1 ft. .... 3.79 ea. 10 for 37.50



**SUGAR MAPLE**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
The largest of all maples, and its beautiful array of yellow and orange hues make it a sight to remember due to the foliage thickness. A very hardy northern and southern tree and will grow up to 60 feet.

**GREEN WEEPING WILLOW**  
4 to 6 ft. .... 1.49 ea. 10 for 14.50  
This common Weeping Willow makes a large lacy tree with long branches weeping to the ground. Good for planting near water or as a planting accent alone or in groups of two or three in moist locations. Ultimate height 40 ft.

**SWEET GUM**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
Star shaped leaves turn scarlet in autumn. The tall handsome tree is broadly pyramidal in form bearing prickly brown ball-type fruits remaining on branches after the leaves fall. Gives deep shade.

**MAGNOLIA SOULANGEANA**  
1 to 2 ft. .... 1.98 ea. 10 for 19.50  
The most popular hard Magnolia. One of the first trees to bloom in the spring. The delightful, fragrant blossoms appear before the leaves. Blooms are large, often measuring 8 inches across, purple-pink on the outside and white on the inside. Grows up to 15 ft. tall.

**PURPLE LEAF PLUM**  
2½ to 4 ft. .... 1.98 ea. 10 for 17.50  
The red-leaved flowering plum will add contrast, color and variety to your lawn. Holds its deep rich color all season. Pink blossoms in early spring, followed by ornamental bright red fruits. Hardy anywhere. Attains 8 to 10 feet height.

## NUT TREES — 1 or 2 Years Old

**BUTTER NUT**  
3-4 ft. .... 3.98 ea. 10 for 38.50  
Big pecan-shaped nuts with rich, buttery flavor and tender white meat. Hardy, fast growing, high-yielding, superb shade tree.

**AMERICAN FILBERT HAZEL NUT**  
2-3 ft. .... 2.45 ea. 10 for 22.50  
Quick bearing, dwarf growing. Easy to crack, large sweet kernels, shell out whole. Fine for shrub borders or hedges.

**ENGLISH WALNUT**  
2-3 ft. .... 6.95 ea. 10 for 68.50  
Attractive, broad-headed trees, excellent for shade. Grow fast, bear young. Large, thin-shelled, and easy to crack nuts.

**HALL'S HARDY ALMOND**  
3-5 ft. .... 3.98 ea. 10 for 37.50  
Delicious nuts. Thrives wherever peaches are grown. Grows rapidly to 15-20 ft. Needs two trees for best pollination.

**BLACK WALNUT**  
2-3 ft. .... 2.49 ea. 10 for 24.00  
Tall, towering, sturdy, handsome trees. Valuable for timber, shade, and tasty nuts.

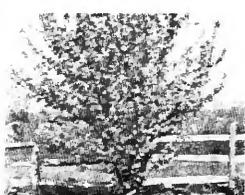
**AMERICAN BEECH**  
3-4 ft. .... 1.90 ea. 10 for 18.50  
Large tree with rounded crown of many long, spreading and horizontal branches, producing edible beechnuts. Height about 60-80 ft.



**TULIP TREE — Collected**  
4 to 5 ft. .... 1.50 ea. 10 for 12.50  
One of the loveliest of our native trees. Tall growing, of shapely habit, and its large irregular leaves make it ideal for quick shade. Bears numerous tulip-like flowers in spring. Blooms are yellow, marked inside of base with orange.

**GINKGO TREE**  
3 to 5 ft. .... 3.98 ea. 10 for 38.50  
Very effective for lawns, foliage fern-like, yellow-green marked with delicate hairlike lines. The fruit, which matures in the fall, has a sweetish, resinous taste. 50 feet at maturity.

**EUROPEAN MOUNTAIN ASH**  
3 to 4 ft. .... 3.95 ea. 10 for 37.50  
Very hardy, dense head, and regular beautiful fernlike green foliage, covered from July till winter with clusters of bright red berries. The combination of foliage and clustered fruits make this most striking and beautiful. Ultimate height 30 feet.



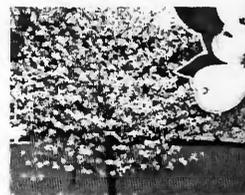
**FLOWERING CRAB — Red or Pink**  
3 to 5 ft. .... 2.98 ea. 10 for 29.50  
The Pink Flowering Crab has vigorous red blossoms. After blooming they have clusters of small red Crab apples.

**CHINESE CHESTNUT**  
3-5 ft. .... 3.98 ea. 10 for 37.50  
New improved blight resistant Chestnut grown successfully where native trees have died. Hardy, prolific bearing (plant 2 or more, pollination insures a big crop). Big sweet nuts compare to the good native varieties for size and quality. Beautiful year round, medium size trees bear young.

**STUART PECANS - Paper Shell**  
2-3 ft. .... 7.95 ea. 10 for 75.50  
Stuart is one of the excellent southern-type pecans that will consistently yield big crops of very high quality nuts. The trees are fast growing and are excellent for shade even in northern states, and will also produce nuts as well. These are vigorous grafted trees that are sure to give good results.

**EUROPEAN FILBERT, Hazel Nut**  
2-3 ft. .... 2.98 ea. 10 for 27.50  
Widely used to pollinate other varieties. Nuts are large and attractive. The nut matures in late Sept.

**DESIRABLE PECAN (Paper Shell)**  
2-3 ft. .... 7.95 ea. 10 for 75.00  
One of the larger pecans, excellent cracker, bears early and is a very hardy producer. Has a thin shell; Disease resistant.



**WHITE FLOWERING DOGWOOD**  
4 to 5 ft. .... 1.99 ea. 10 for 17.50  
Well known to everyone, beautiful all the year. Large, white, single blossoms are conspicuous early in spring. The foliage is attractive all summer, and the fall colors beautiful. Red berries hang on most of the winter. Use as a specimen or in groups as a background for borders. Grows up to 30 feet high.

**GOLDEN CHAIN TREE**  
3 to 4 ft. .... 2.98 ea. 10 for 27.50  
Rare low growing tree with long clusters of pure golden yellow Wisteria-like blossoms in May. Cloverlike leaves. Height 20 to 25 feet.



**PINK FLOWERING DOGWOOD**  
2 ft. .... 4.95 ea. 10 for 48.50  
3 to 4 ft. .... 8.95 ea. 10 for 87.50  
A most valuable low growing and colorful tree for the lawn. Before the leaves appear, the tree is literally covered with rose-pink flowers suffused with bright red. Grows up to 20 feet high. A gorgeous spectacle.

## BERRIES, FRUITS AND HEDGE — 1-2 Years Old

- 10 Rubarb, 1 yr. Roots ..... 1.95
- 20 Asparagus, 1 yr. Roots ..... 1.75
- 25 Strawberry, Blakemore or Tenn. Beauty ..... 2.95
- 25 Gem Everbearing Strawberry ..... 2.95
- 25 South Privet, 1-2 ft. .... 2.95
- 25 North Privet, 1-2 ft. .... 6.95
- 10 Multiflora Rose, 1-2 ft. .... 4.98

**BLACKBERRY — Thornless**  
½ to 1 ft. .... 1.45 ea. 10 for 14.00  
Mouth-watering giant berries over a half inch long, ripen over a long period on dependable, sub-zero hardy bushes.

**BOYSENBERRY**  
½ to 1 ft. .... 1.29 ea. 10 for 12.50  
Largest thornless berry ever developed. Extra fancy beautiful superb quality fruits often 1½ inches long. Excellent for eating, canning, freezing, juices, etc.

**BLUEBERRIES — Weymouth - Earliblue - Blueray - Berkeley - Bluecrop - Rancocas - Rubel - Jersey**  
1 ft. .... 2.98 ea. 10 for 27.50  
During July and August every bush is loaded with huge grape-like clusters of sapphire blueberries. Need acid soil and plant very shallow.

**FIGS — Brown Turkey**  
1 to 2 ft. .... 2.49 ea. 10 for 24.00  
Handsome, bushy plants will bear figs this summer on new growth. Give winter protection or pot for indoor plant in the north.

**BLACK RASPBERRY**  
½ to 1 ft. .... .99c ea. 10 for 8.50  
The Black Raspberry is an excellent early raspberry that produces big crops of delicious high quality berries. Very hardy & vigorous. The best commercial variety in Ohio & other states.

**RED EVERBEARING RASPBERRY**  
½ to 1 ft. .... .99c ea. 10 for 8.50

## FRUIT TREES — 1 or 2 Years Old



### GRIMES GOLDEN APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
The tree is hardy, grows upright and is quite disease resistant. Medium to large bright yellow flesh, fine grained, juicy, with a very pleasing spicy flavor. Highly recommended and widely planted to pollinate self-sterile varieties.

### YELLOW DELICIOUS APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
A big beautiful golden apple that ripens late. Trees are very vigorous and bear quite young. Good for home and fresh market sales.

### EARLY HARVEST APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
Our best selling early, high-yielding garden variety. Will grow fast and bear young. A cooking apple known to housewives everywhere.

### GRANNY SMITH APPLE

2-3 ft. .... 2.75 ea. 10 for 26.00  
3-5 ft. .... 3.75 ea. 10 for 36.00  
The fruit is medium to large and bright glossy green. It is very good eaten fresh or in desserts, salads, sauces, and pies. The tree grows better in areas with a long growing season.

### LODI APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
The favorite early yellow apple. The same fine flavor as the Early Harvest, but much larger and firmer. Unsurpassed for cooking.

### RED DELICIOUS APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
One of America's favorite apples. Ripens in fall. Dark red color, firm flesh.

### STAYMAN WINESAP APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
The most popular long keeping winter apple. An improved red satin with better color, large size, and better keeping qualities.

### RED ROME BEAUTY APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
Large uniform size. Crisp, juicy, aromatic with white flesh. One of the longest keepers of all apples.

### RED JONATHAN APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
A deep red apple of highest quality with a delicious, crisp, tender flesh. Fine for cooking and freezing.

### ARKANSAS BLACK APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
It is a good eating apple, also good for canning. Ripens in late October. A good keeping apple.

### RED JUNE APPLE

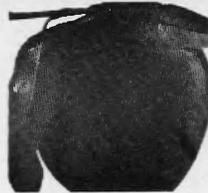
2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
Nothing beats the Red June for fresh eating, desserts, and salads.

### McINTOSH APPLE

2-3 ft. .... 1.98 ea. 10 for 19.50  
3-5 ft. .... 2.75 ea. 10 for 26.00  
Large, rich red fruit with crisp, tender, juicy flesh. Excellent for eating fresh, cooking, drying, and cider. The tree is hardy, bears young, and annually.

### NECTARINE — SURECROP

2½-4 ft. .... 2.50 ea. 10 for 24.50  
It resembles and grows like peaches with the same luscious sweet, juicy, mellow, golden flesh. The thin smooth plum-like skin is absolutely fuzzless.



### ELBERTA PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Still the most popular peach on the market and universally planted. Yellow freestone of excellent quality, juicy, firm, but tender. Tree is hardy, productive and disease-resistant.

### DIXIE RED PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Dixie Red Peach is a yellow fleshed peach which ripens six weeks earlier than the Elberta Peach.

### GOLDEN JUBILEE PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
A very popular, early, yellow flesh peach; excellent for home garden plantings and local sales. Good size fruit of fine quality. A very important feature is its excellent winter hardiness which insures a fine crop each year.

### BELLE OF GEORGIA PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Very vigorous, hardy, and productive. Leading white variety for commercial use. Fruit large with bright attractive red almost covering the white background. Flesh white, highly flavored and very firm. Freestone.

### CHAMPION PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Fine flavored, large blushed, freestone peach with a real sweet delicious white flesh, extremely hardy and productive.

### HALE HAVEN PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Today's most planted, most popular and most dependable hi-yielding, hi-quality, hardy yellow freestone. Rapidly overtaking Elberta.

### J. H. HALE PEACH

2-3 ft. .... 1.79 ea. 10 for 17.50  
3-5 ft. .... 2.50 ea. 10 for 24.50  
Excellent for home and commercial planting. Large yellow flesh, firm. Freestone.

### ORIENT PEAR

3-5 ft. .... 3.98 ea. 10 for 39.50  
One of the very few varieties almost entirely immune to blight. Its fruit is excellent fresh or canned; melting, juicy, mild subacid flavor. Fruit round yellowish with red blush, interplant with Keiffer for pollination purposes. Late August.

### KEIFFER PEAR

3-5 ft. .... 3.98 ea. 10 for 39.50  
Ripens late September. One of the best known varieties and grows to a large size. Fruit long and heavy, flesh coarse and not so sweet. Largely planted for canning and is excellent for preserving.

### BARTLETT PEAR

3-5 ft. .... 3.98 ea. 10 for 39.50  
Grown profitably in every pear growing section in America. Trees vigorous and bear young. Large smooth yellow fruit with sweet white flesh. Flesh fine grained and juicy.

### MOONGLOW PEAR

3-5 ft. .... 3.98 ea. 10 for 39.50  
Early ripening variety with sweet, mild, juicy flesh. Excellent for fresh use or canning. The tree is hardy, blight resistant, bears big crops.



### RED JUNE PLUM

3-5 ft. .... 2.50 ea. 10 for 24.50  
This large plum matures very early. The tree bears heavily. To avoid "June drop" (the dropping of excess fruit), thin the fruits.

### METHLEY PLUM

3-5 ft. .... 2.50 ea. 10 for 24.50  
One of the better varieties. Fruit is large in size, reddish purple in color with red flesh. Tree is vigorous grower and does well on most types of soil. Heavy annual bearer. Good shipper.

### BURBANK PLUM

3-5 ft. .... 2.50 ea. 10 for 24.50  
Large, purplish-red plum with yellow delicious flesh. A very prolific variety. Excellent eating and commercial plum. Good shipper. Ripens late June.

### DAMSON PLUM

3-5 ft. .... 2.50 ea. 10 for 24.50  
Very dark blue and bears in August.

### STANLEY PRUNE PLUM

3-5 ft. .... 2.98 ea. 10 for 29.50  
This prune-plum is the most popular of all plums. Rich yellow flesh, firm, sweet, and delicious. Freestone. Ripens early September. Plant two varieties for pollination.

### SANTA ROSA PLUM

3-5 ft. .... 2.98 ea. 10 for 29.50  
Medium to large fruit with firm yellow-veined flesh to dark red near skin. Rich, pleasing, tart flavor. Ripens early. Tree is vigorous, productive, self-fertile, but produces bigger crops when planted with another variety.



### MONTMORENCY CHERRY

2½-4 ft. .... 5.49 ea. 10 for 54.50  
Universally recognized the best sour cherry for eating fresh, canning, baking and preserving. Bears large fruit very young. America's favorite hi-yielding cherry.

### BLACK TARTARIAN CHERRY

2½-4 ft. .... 5.49 ea. 10 for 54.50  
The big, almost black, sweet cherry everyone likes. Fine for eating, canning and freezing. Luscious cherries ripen in June.

### EARLY RICHMOND CHERRY

2½-4 ft. .... 5.98 ea. 10 for 59.50  
Sour cherry, bright red, juicy fruit. One of earliest sour cherry varieties. Strong, healthy tree.

### BING CHERRY

2½-4 ft. .... 5.98 ea. 10 for 59.50  
Sweet cherry, large, delicious, dark red fruit with rich, firm flesh. Excellent for eating, canning and preserves. Ripens mid-June.

### APRICOT — Moorpark or Early Golden

2½-4 ft. .... 2.50 ea. 10 for 24.50  
The Moorpark Apricot is a large yellow variety that is most widely planted. It bears in July and is of a supreme quality. The Early Golden Apricot is large and yellow which is better suited for the Southwest. It bears in early July and is freestone.

## GROUND COVERS — 1 or 2 Years Old



### ENGLISH IVY

4 to 8 in. .... 39¢ ea. 10 for 3.50  
100 for 25.00 The English Ivy is an Evergreen Ivy. Excellent covering for stone, concrete, or brick structure. Luxuriant dark green foliage is very glossy; it thrives in dense shade. Good ground cover.

### VINCA MINOR — Clumps

10 for 3.50 ..... 100 for 35.00  
An old-fashioned ground vine for ground covering, growing well in the shade; useful also for porch and window boxes. The flowers are light blue color; the green leaves stay on all winter. Will grow under almost any condition.



### SEDIUM, DRAGON'S BLOOD

10 for 2.98 Sedium makes a good ground cover and they are often used in naturalized situations. They have the characteristic of setting on or affixing themselves to rocks and walls. Give sedum a well-drained sandy soil that is well supplied with humus or rotted leaf mold.

### CROWNVELTCH

..... 20 for 2.98  
Popular perennial ground cover that beautifies problem slopes and banks. Needs no maintenance or mowing. Thrives in any climate, in sun or semishade. Winter hardy, it provides effective erosion control, actually improves soil.

## DWARF FRUIT TREES

### DWARF ELBERTA PEACH

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF RED HAVEN PEACH

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF BELLE OF GA. PEACH

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF GOLDEN JUBILEE PEACH

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF METHLEY PLUM

2½ to 4 ft. .... 2.98 ea. 10 for 29.50

### DWARF BURBANK PLUM

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF MONTMORENCY CHERRY

2½ to 4 ft. .... 5.98 ea. 10 for 59.50

### DWARF NORTH STAR CHERRY

2½ to 4 ft. .... 5.98 ea. 10 for 59.50

### DWARF YELLOW DELICIOUS APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF RED DELICIOUS APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF YELLOW TRANS. APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF RED JONATHAN APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF WINESAP APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF EARLY McINTOSH APPLE

2½ to 4 ft. .... 2.79 ea. 10 for 27.00

### DWARF KIEFFER PEAR

2½ to 4 ft. .... 5.98 ea. 10 for 59.50

### DWARF BARTLETT PEAR

2½ to 4 ft. .... 5.98 ea. 10 for 59.50

## FLOWERING SHRUBS



### HYDRANGEA P.G.

1 to 2 ft. .... 79¢ ea. 10 for 7.50  
Mammoth flowers in August when few other shrubs are in bloom. The pinkish white flowers gradually deepen to a reddish bronze. The dried flowers are often used as winter bouquets. Fine for hedges, borders, groups or as single specimens. Very hardy. Ultimate height if not pruned, 5 to 6 feet.

### BLUE HYDRANGEA

1 to 2 ft. .... 95¢ ea. 10 for 7.50  
Large cool-blue blossoms throughout the summer amid green leaves. The more acid the soil, the deeper blue will be the color. Maintain soil acidity by using aluminum sulphate. Grows 3 to 4 feet tall in partial sun or shade.

### FLOWERING QUINCE — Red

1 to 2 ft. .... 95¢ ea. 10 for 9.00  
Low growing shrub with dark green foliage. Bright orange-red flowers from April to May. Spicy fruits make fine jelly. Stands drought well.

### JAPANESE SNOWBALL

1 to 2 ft. .... 95¢ ea. 10 for 9.00  
A rare and exceedingly beautiful species. Flowers in large globular heads, pure white, hanging long on the bush; a very choice and desirable shrub. Blooms in May. Ultimate height 8 feet.

### BURNING BUSH

4 to 8 in. .... 65¢ ea. 10 for 6.00  
In the fall the leaves turn a brilliant mirror-bright crimson. A 4 to 5 foot showpiece with unusual corky bark. Hardy in sun or partial shade.



### PUSSY WILLOW

1 to 2 ft. .... 79¢ ea. 10 for 7.50  
3 to 5 ft. .... 1.98 ea. 10 for 19.50  
Large silvery catkins. Popular for indoor forcing in late winter and early spring as well as effective lawn and garden shrub.

### CRAPE MYRTLE — Red, Pink

1 to 2 ft. .... 79¢ ea. 10 for 7.50  
Strong growing shrub adapting itself to almost any soil and condition except in the northern section where temperatures often drop below zero. Does very well south of Philadelphia. Leaves bright green, the blooms are large panicles of crinkled little flowers. Blooms late July and August. Ultimate height 5 to 6 feet.

### RED BARBERRY

1 to 2 ft. .... 69¢ ea. 10 for 6.50  
Foliage bright red in spring, dull red in summer and brilliant scarlet in fall. For best coloring, plant in full sun. Ultimate height 4 feet.

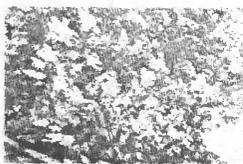
### SPIREA VAN HOUTTIE — White

1 to 2 ft. .... 1.25 ea. 10 for 12.00  
Common "Spirea" also sometimes erroneously called "Bridal Wreath". Seen everywhere, this plant is none the less graceful, if given enough room to grow naturally and pruned properly at the right time. Ultimate height 8 ft.

### RUSSIAN OLIVE

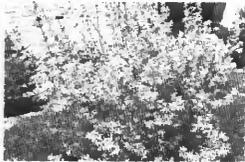
1 to 2 ft. .... 75¢ ea. 10 for 7.00  
2 to 3 ft. .... 1.49 ea. 10 for 14.50  
Gay foliage covered with silvery dust. Large ornamental shrubs. Orange berries in autumn. Ultimate height 20 ft.

## FLOWERING SHRUBS



**OLD FASHIONED LILAC**  
1 to 2 ft. . . . .1.25 ea. 10 for 12.00  
An old-fashioned favorite. Requires sunny spot. Makes a good screen planting.

**AZALEA — Red, Pink or Purple**  
4 to 8 in. . . . .79c ea. 10 for 7.50  
By nature Azaleas are woodland plants. They love partial shade and acid soil. The roots, which are near the surface, should be kept cool and damp, and never allowed to dry out. Oak leaves are ideal for covering the ground beneath them. Azaleas can be supplied in colors of red, white or pink. Ultimate height 6 to 8 feet.



**FORSYTHIA — Yellow**  
1 to 2 ft. . . . .65c ea. 10 for 6.00  
One of the most popular shrubs. Large bushy plants with sweeping, graceful foliage. In spring, before leaves come out, the plant is covered with bell-shaped blooms of rich golden color. Ultimate height 8 feet.

**WEIGELIA — Red**  
1 to 2 ft. . . . .95c ea. 10 for 9.00  
The red weigelia has a ruby-red shading and blooms all summer, pink blooms in April.

**BUSH HONEYSUCKLE — Red**  
1 to 2 ft. . . . .79c ea. 10 for 7.50  
An upright shrub with a profusion of small fragrant blossoms in May and June.

**MOCKORANGE — White**  
1 to 2 ft. . . . .69c ea. 10 for 6.50  
This is the familiar "Mockorange". It grows to 6 to 8 feet sometimes more. The flowers come in May and June. Very fragrant creamy white blossoms with a perfume that lingers in the air. A fine shrub, standing hardships well, even the smoke and dust of cities.

**PERSIAN LILAC — Purple**  
1 to 2 ft. . . . .99c ea. 10 for 9.50  
One of the most famous Lilacs, with arching branches and very fragrant, pale purple flowers in rather loose broad panicles, opening late in spring. Ultimate height 6 to 8 feet.



**RHODODENDRON — Collected**  
½ to 1 ft. . . . .1.29 ea. 10 for 12.50  
Rhododendrons are bushy evergreen shrubs with glossy leatherlike foliage. Grows best in partial shade. Use plenty of peat moss when planting Rhododendrons.



**CANADIAN HEMLOCK — Collected**  
1 to 2 ft. . . . .69c ea. 10 for 6.50  
Young or old, the Hemlock is always a picture of gracefulness. Foliage dark green, lacy, close-set, drooping gracefully. The best large evergreen in heavy shade. Makes beautiful hedge.

**MOUNTAIN LAUREL — Collected**  
½ to 1 ft. . . . .69c ea. 10 for 6.50  
A very handsome spreading broadleaf. Leaves are dark, glossy green. A very useful landscape plant.

**BLUE RUG**  
4 to 6 in. . . . .1.29 ea. 10 for 12.50  
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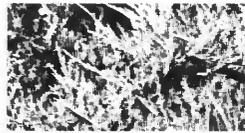


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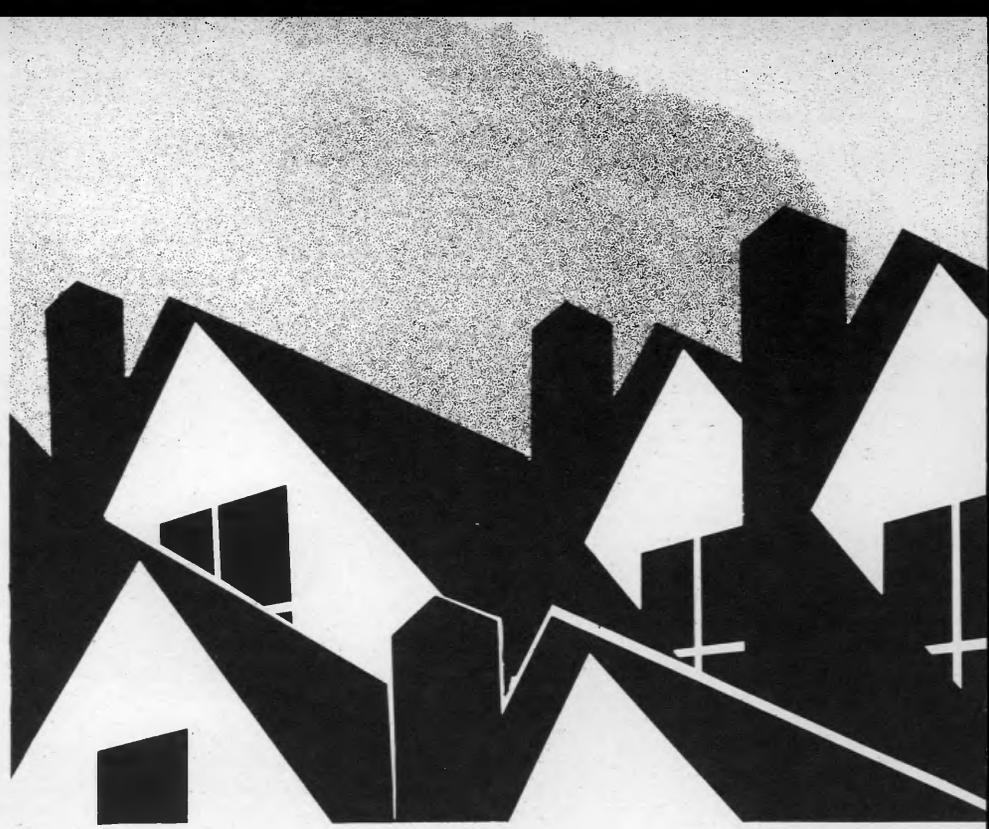
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# WOOD SMOKE—the pollution of

**A**bove the frozen streets of Missoula, Mont., snowflakes disappear into the thick white smoke that drifts out of the chimneys of snow-topped houses. Inside, grateful inhabitants keep their fuel bills low and their houses warm while enjoying the old-fashioned charm of wood-burning stoves or fireplaces.

This Christmas card scene has been familiar on snowy Western nights for a decade, ever since oil embargoes drove fuel prices skyward and conservation-minded Americans to their nearest wood stove dealers. The energy and money saved by the heating methods of their great grandparents has convinced more than 20 million Americans that wood stoves are a better source of heat than oil, gas or electricity.

But the residents of Missoula, and a handful of other mountain communities are finding out that conservation has its price, too. The cloudy white smoke produced by the wood used to stoke living room fires is polluting the air.

In Oregon, for example, where 250,000 residents heat with wood

stoves or fireplaces, wood smoke is responsible for much of the air pollution. On one winter day in Portland in 1981, testing revealed that smoke from wood-burning stoves and fireplaces caused 75 percent of the air's content of particulates, which are unburnt or partially burnt carbons and hydrocarbons. Other sources of particulates are cars and trucks.

After authorities discovered that at least three of the state's cities, Portland, Medford and Eugene, were in violation of Clean Air Act standards for particulates, the Oregon legislature late last year enacted a law to require wood stoves to meet emissions standards before they can be sold.

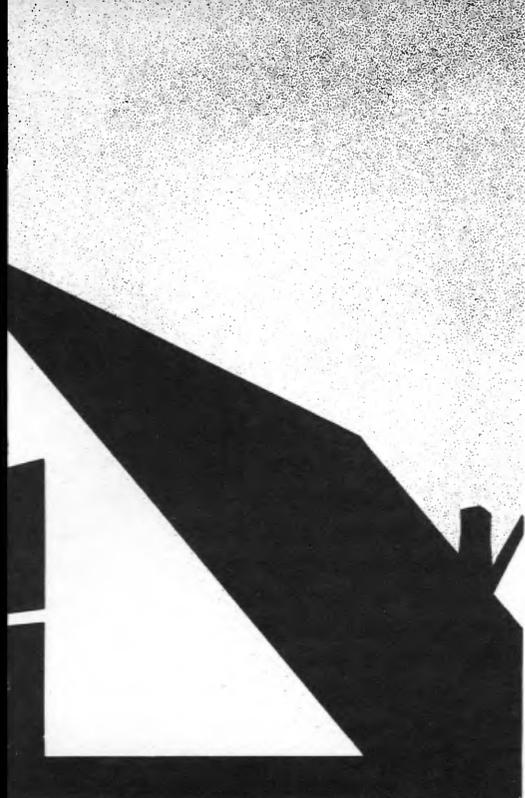
That means that beginning in 1986, with current technology, more sophisticated stoves equipped with dual combustion chambers or catalytic converters like the ones on automobiles will be sold instead of the popular airtight models. Current wood stove owners will not have to retrofit their stoves; only new purchases will be affected. But by the year 2000, says Barbara Thombelson, a solid fuels specialist for the Oregon government,

the state's problem should be 75 percent relieved.

From Montana to New Mexico, the mountains surrounding lower-lying communities prevent movement of air, trapping the smoke that drifts out of residential chimneys and leaving a brown cloud over the town. The problem is compounded when cold air is trapped by warm air at higher elevations, in temperature inversions that prevent the air from mixing and cleaning itself.

The result is a fog so thick that on peak days in Missoula people with respiratory problems are sent to the hospital, pregnant women are warned to stay indoors and street lights are turned on during the day.

Local legislators in Colorado, Washington, Montana and other mountain communities have adopted or are considering restrictions similar to Oregon's on sale of wood stoves. More recently, authorities in New England states, particularly Vermont, have noticed an increase in wood smoke pollution and have enacted or considered local restrictions. The federal Environmental Protection Agency, for the



# winter

time being, has consigned the problem to the states.

"This isn't the type of problem that is going to affect the nation as a whole," says Tom Super, a Washington-based consultant working with the EPA on the wood smoke issue. "That doesn't mean the problem is not serious."

Without restrictions on the smoke, which has been blamed for ailments ranging from sore throats and watery eyes to respiratory problems and impaired lung capacity in children, the problem can only get worse.

"Wood is by far the most inexpensive way to heat your home," says Michael Sciacca, technical director of the Washington-based Wood Heating Alliance, which predicts consistent use of stoves for heating in the future. About 750,000 consumers bought wood stoves in 1983, paying between \$150 and \$2,000 each, according to industry estimates.

Smoke from wood-burning stoves has only recently been identified as an environmental culprit. The ugly brown clouds hanging over cities traditionally have been blamed on automobile emis-

sions. In 1978, Oregon analysts discovered that wood smoke was contributing to that state's pollution problem. Emissions of air polluting particulates were identified through chemical tests that allow "fingerprints" to be made of each pollution source. Observation proved that the problem got worse every year. Of the 8,500 tons of particulates emitted into Portland's air each year, 6,500 are blamed on smoke from wood stoves and 1,900 from fireplaces, according to state statistics.

The fine particulates are emitted by the burning wood, trapped low in the air and inhaled by people who walk outdoors. They are small enough to penetrate the lower respiratory system and can lodge in the lung. The result, Thombelson says, is debilitating for those who already suffer from asthma and bronchitis. Health authorities speculate that the carcinogenic particulates could cause the same lung diseases linked with cigarette smoking. Wood smoke is also full of health-endangering gases, including carbon monoxide, volatile hydrocarbons and nitrous oxides.

The smoke occurs from inefficient wood burning. Today's popular airtight stoves damp down fires to burn longer but inefficiently, causing more smoke and building up flammable creosote, or soot, in chimneys.

More expensive open-burning stoves allow a fire to burn rapidly, causing complete combustion of the gases produced during the fire. The result of complete combustion is less smoke.

"The good news about wood stove pollution is the more efficiently you run your stove, the more you help the pollution problem," says Super. "You can save money while helping pollution," he adds.

Increased awareness of the environmental problems caused by wood smoke could threaten wood stove sales. While more sophisticated stoves

are becoming popular, they are more expensive and their mandatory use could prohibit otherwise willing customers from buying wood stoves at all.

Prices on the more efficient stoves with advanced features are about \$150 to \$300 higher than simple airtight stoves, Sciacca says. But he adds, "There's a growing market for high-tech stoves."

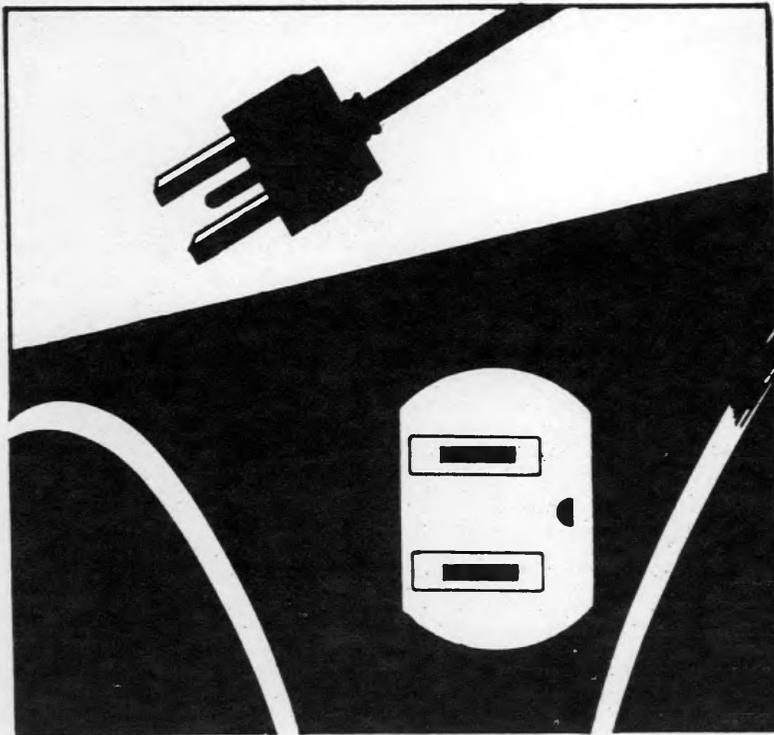
Some wood stove owners are upset with their local governments' actions restricting use of the stoves. A Missoula group, Woodburners United of Missoula County, was formed last year after a voluntary plan to avoid green wood and fires on smoggy days failed and the county commissioners held public hearings on tougher measures. The group has hosted a "Right to Burn" march and has cited the Constitution to defend their stoves.

Super says wood stove owners do not have to abandon them. Using the new stoves with secondary combustion features will significantly reduce the wood pollution problem, he says. Owners of inefficient stoves can buy attachments to cut down on smoke. Wood can be burned thoroughly so that smoke-producing soot doesn't form in fireplaces.

"Before going to bed, roar up the fire for 20 minutes before banking it down," Super advises. "Burn the fire steady and hot. Don't let it go down." He adds that wood to be used for fires should be collected six months to a year before it will be used and sheltered in the meantime in a dry, outdoor place. Hardwoods are better than softer variations for burning efficiently, he says.

"Whatever your stove is like, whatever your wood is like, the better you use it, the better for pollution," Super says.

—Sharon O'Malley  
*Rural Electric News Service*



*Use the appropriate extension cord, such as the three-wire, grounding type if the appliance has a three-pronged plug. Frayed cords can lead to fire or shock hazard.*

## Extension cord selection important

**E**xtension cords, unless properly used, waste some energy. Improperly used cords are dangerous, too. While most extension cords are a necessary evil, one that is being used needlessly is more evil than necessary. In other words, a cord that is being used instead of a new circuit may be an accident waiting to happen.

A cord that is being used long after it should have been discarded has the potential to do a lot of harm. In fact, inadequate extension and power cords are a major source of fire in the home.

Properly used, such cords are okay.

Since many of the lower-priced power tools on the market these days have foot-long power cords, you will need an extension cord to work with them, even at a well-organized workbench with plenty of electrical outlets.

And, if you need to use a drill or grinder to work on some equipment outside the workshop, it would not make good sense to run a new circuit just for that, so a cord of sufficient size and quality would be in order.

In fact, that is the primary reason for extension cords — to deliver reasonable amounts of electricity

where it is needed only occasionally. If the need becomes a fairly regular thing, you should give some serious thought to putting in a hard-wired circuit, for the sake of energy conservation and safety.

Properly sized extension cords are not particularly energy inefficient, but there may be a temptation to add "just one more" tool or appliance. The cord most likely will then overheat. If it does, the electricity going through it produces heat, and that is a waste of energy. It also reduces the voltage going to the unit, and that can cause it to run slower — and longer — than normal. Low voltage will damage some tools and appliances, too.

The biggest problem with extension cords comes when they are used temporarily in the home, often with space heaters. Lightweight cords just will not do an adequate job with virtually any space heater worthy of the name. For example, a 1,400-watt heater connected to an 18-gauge extension cord would pose a definite fire hazard because the cord would overheat, but the fuse or circuit breaker protecting the circuit would

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not cut off the power. Many people have the mistaken belief that the safeguards built into their house wiring will protect them from problems with extension cords, but this is not true. Fuses and circuit breakers are designed to protect the house wiring, and that is all they do.

Assuming you must have an extension cord to get your little space heater where you need it, make sure the one you get is up to the job. Look for a cord with a UL label, and beware of such generic statements as "heavy-duty extension cord," or "recommended for use with power tools." Also, the extension cord should be at least as large as the power cord attached to the tool or appliance.

Packages containing cords many times show what size cord you will need to serve tools or appliances at different distances from an outlet. If you cannot find the exact size you need, get the next larger size, and try not to buy a longer cord than you absolutely have to have. Not only are long cords awkward to work with, they lose energy, but less than an undersized cord would.

Since extension cords are somewhat unsightly and often pose a tripping hazard, it is often tempting to conceal them under a rug or carpet. This is an unsafe practice! It causes the cord to heat up, and friction will wear a cord surprisingly quickly, too.

It is safer to replace a worn cord than to attempt to repair it. If the outer jacket is worn or damaged, or if there is damage within the outer jacket, the cord presents a shock and fire hazard, and should be discarded immediately. On the other hand, if just the plug itself is damaged, and the cord sound, repairs would be in order. Properly sized and well maintained cords, used only when necessary, can be very useful around a house or farm. Misused, they are a safety threat and energy wasters.

February 1984

## "Magic" Indian Oil CATCHES FISH LIKE CRAZY!

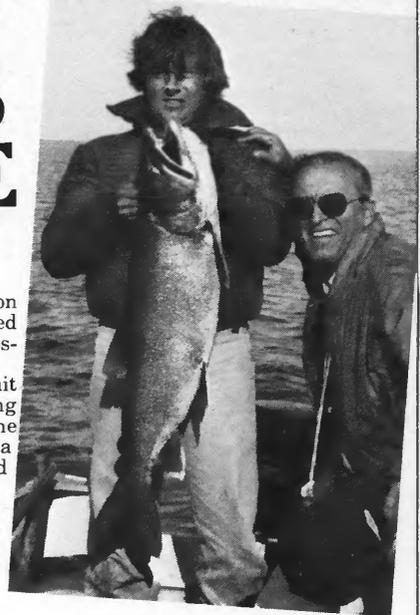
I made this remarkable discovery when my son went on his first fishing trip with me. We hired this old Indian guide in a small town in Wisconsin.

When our guide showed Mark how to bait his hook, I noticed that he rubbed something on the bait just before Mark put the line in the lake. Within minutes Mark had himself a beautiful bass. You can imagine how pleased I was and Mark, of course, wanted more.

So the whole thing was repeated—the guide put on the bait, rubbed it again, and up popped another beauty. Meanwhile, I sat there patiently waiting for my first fish.

This went on all morning. Mark caught 30 bass and I got eight.

When I pulled the boat in at noon and paid off our Indian guide, I noticed that a small, unusual seed had apparently fallen from the guide's pocket into the bottom of our boat. The odor from the seed was quite strong and certainly different from anything I had ever smelled before. This was what he had rubbed on Mark's bait!



*It works for me—  
wouldn't be without it.*  
D. Hulbutt, Duluth



*I used your spray  
and caught all these fish*  
J. Hannon, Chicago

When we returned home the next day, I gave the seed to a chemist friend of mine. He analyzed it and duplicated it into a spray for me.

I could hardly wait for my next fishing trip. What I discovered on that trip was absolutely unbelievable. I have never before caught fish like that. Every time I baited my hook, I sprayed it and up popped another fish.

I tested some more. I put spray on one bait and nothing on another. The sprayed bait got the fish almost immediately. The unsprayed bait got some nibbles, but nothing more.

I gave some of my friends samples of the spray to try and the results were the same—they caught fish like never before.

I named my spray "CATCH FISH LIKE CRAZY" cause that's just what it does and it works with all kinds of fresh or salt water fish. It works equally well on artificial or live bait.

**Here's what fishermen say about my spray:**

*"What you say is true. I caught fish like crazy—it really works!"* K.S. Evansville, Ind.

*"I read your ad and found it hard to believe—but sent for it anyhow cause I'm not very lucky—after one day, I'm a believer—I caught Snook and Sea Bass—it was easy!"* D.D. Naples, Fla

*"I always keep a can in my tackle box. It's fantastic!"* K.V. Highland Park, Ill.

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# Meter Monitor

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By subtracting the previous day's reading from the current reading each day you get the number of kilowatt hours used during that 24-hour period. By adding the daily figures into a weekly total, you can see how much — and

when your family used power during that month.

Your meter does not lie. When it records more electricity being used, try to find out why, by looking at your family's activities during that period . . . was the tractor or car heater on more than normal? Was the weather colder than normal? Was it a wash day? See what activities, if any, can be altered to use energy wisely.

End of Month Reading \_\_\_\_\_ KWH Usage \_\_\_\_\_

Amount of Bill \_\_\_\_\_  $\frac{\text{AMT}}{\text{KWH}} = \text{¢/KWH}$  (average cost per KWH) \_\_\_\_\_

Note: To obtain daily KWH usage, subtract previous day's reading from current day's reading.

Daily Reading	KWH Used Daily	Record of Daily Activities that Affect Your Energy Use	
1			1
2			2
3			3
4			4
5			5
6			6
7			7
Weekly Total			
8			8
9			9
10			10
11			11
12			12
13			13
14			14
Weekly Total			
15			15
16			16
17			17
18			18
19			19
20			20
21			21
Weekly Total			
22			22
23			23
24			24
25			25
26			26
27			27
28			28
Weekly Total			
29			29
30			30
31			31
Extra Days Total			
MONTHLY TOTAL			

Monthly Total KWH Usage X Average Cost Per KWH = Estimated Bill

\_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_

Budget Cushion \_\_\_\_\_

Budget Figure \_\_\_\_\_

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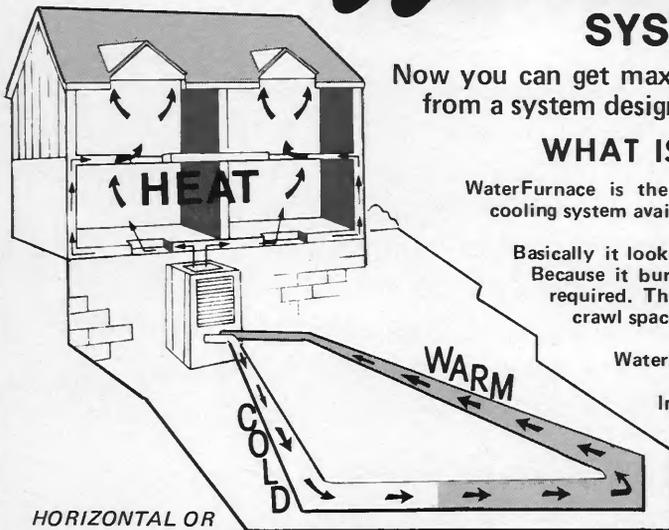
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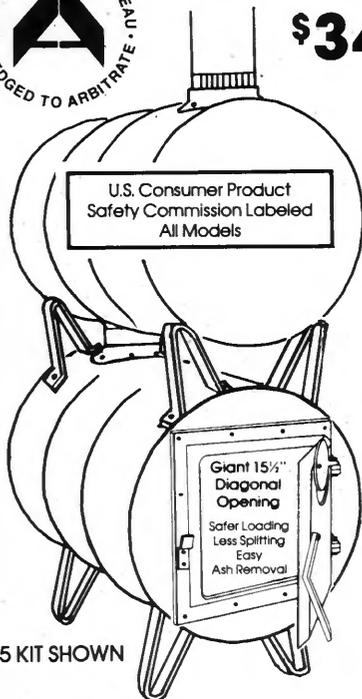
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30-Gal. bottom kit factory pick-up

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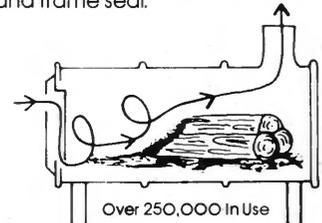
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- \*Original 2 bolt comlock door catch won't bend or break off.

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SPECIFICATIONS: Door, door frame, flue collar, draft control, internal draft channel of 13 ga. steel; legs, 1/8 in. steel; hinges, latch, catch of 3/16 in. steel; nuts and bolts. Top Drum: Connector flanges, pipe assembly, 4 nesting brackets, nuts and bolts.

## PATENTED INTERNAL DRAFT

Air entering top draft control is PRE-heated as it is drawn down inside of door and is sucked into bottom of heater with a turbulent action, mixing with the wood gases. This makes the Sotz stove tops in efficiency. Lifetime heavy steel tapered formed, self-adjusting door and frame seal.



SPARK-PROOF DESIGN. Because of our internal draft channel, hot sparks cannot jump out of heater as in others with draft straight open to fire.

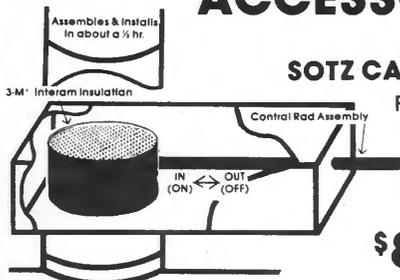
## SOTZ CHALLENGE

Use a HEAVY STEEL Sotz 2-Drum Stove Kit (with Internal Draft Channel), a Corning® Combustor and Auto Draft for one year. If you find a more efficient, longer burning, higher capacity Woodstove, we will give you all your money back + shipping both ways. That's how sure we are Sotz is the best! All Kits guaranteed for life against cracking, warping and burn-up.

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YOU CAN HEAT MORE EFFICIENTLY

## SOTZ CATALYTIC COMBUSTOR KIT



Fits woodstoves with 6" and 8" fluepipe



WHY NOT HAVE THE BEST FOR LESS?

**\$89.95**

Factory Pick-up

## SOTZ WOODSMOKE BURNER

- \* Uses Corning® Brand 3" thick catalytic combustor - others use inferior 1 1/2" thick off brands. Check before you buy.
- \* 6" or 8" Models - Hooks right to pipe or elbow. No expensive adaptors to buy.
- \* Chemically changes smoke so it reburns. Increase heat output 20%. Reduce creosote 90%. Reduce smoke pollution 75%.

SOTZ COMBUSTOR KIT  
1CCC-FITS 6" FLUEPIPE  
3CCC-FITS 8" FLUEPIPE  
2CCC-FITS SOTZ 2-DRUM

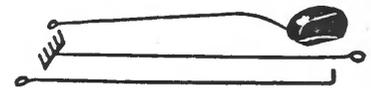
FACTORY PICK-UP	DEL TO YOUR DOOR
\$89.95	\$95.95
\$93.95	\$99.95
\$89.95	\$95.95

## NO RISK GUARANTEE

TRY A CORNING® ON YOUR WOODSTOVE FOR UP TO ONE YEAR AND IF YOU DON'T AGREE IT PAYS FOR ITSELF IN:

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- YOUR MONEY WILL BE REFUNDED.

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\*SOTZ long handle woodstove tools, over 40". Keeps hands away from hot stove. Safe. \*Special rake uncovers charcoal from ash. Results: Charcoal burns, increasing heat output, efficiency, and length of burn. Decreases ash buildup.

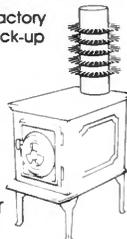
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FACTORY PICK-UP

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WOODSTOVE TOOLS \$12.81	\$15.95

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- \* For wood/coal stoves, furnace, water heaters.
- \* One size fits all diameter pipes from 3" to 8".
- \* 5 fins on 8" pipe recovers 2,000 BTU's. Double BTU's by using 10 fins.
- \* Works great with the combustor.



STOVE PIPE HEAT FINS (Set of Five)	FACTORY PICK-UP	DEL TO YOUR DOOR
	\$4.95	\$5.95

## SOTZ AUTOMATIC DRAFT CONTROL

**\$21.95** Factory Pick-up



AUTO DRAFT FOR Spin Draft Stoves Sotz Heaters Only

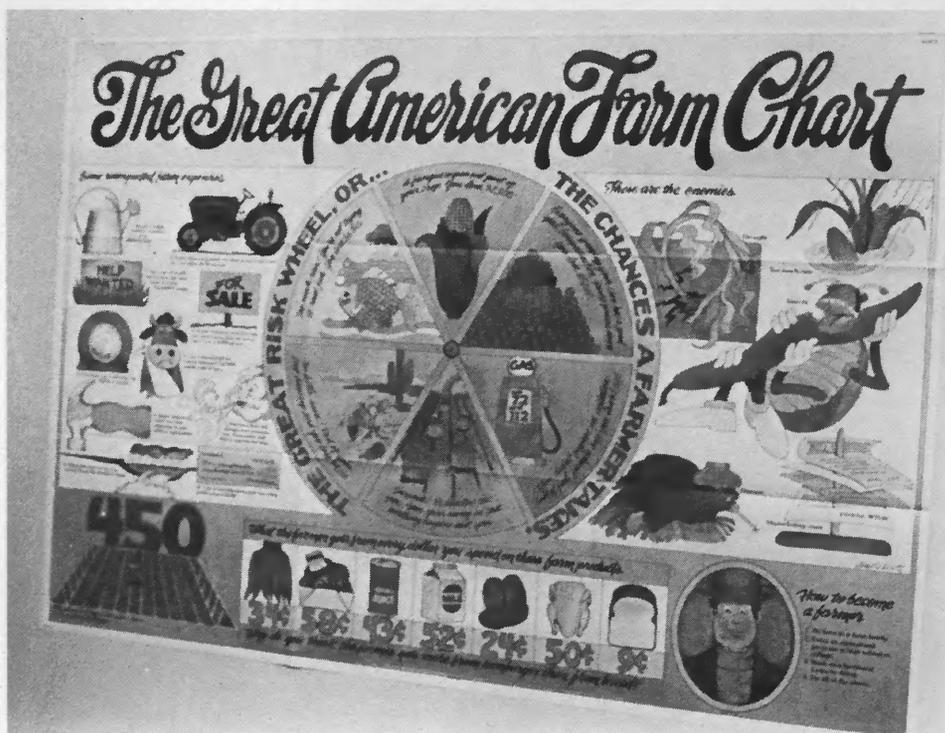
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- FOR AIRTIGHT WOODBURNERS
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  - \* Easy 1 bolt installation.
  - \* Fits spin draft control stoves with 2-7/8" max. die hole, control is 6" rd.

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Jim Fay (far right) and the Mid-America Foundation for Agriculture and the Gifted have a large number of agricultural information products available including posters similar to "The Great American Farm Chart."



## Delivering agriculture's message is objective of new organization

Agriculture boosters all over the country are busily cranking out posters, booklets, pamphlets, brochures and placemats, all pointing out the importance of agriculture in the country's economy. Films, video tapes, filmstrips, tape recordings and slide shows all do the same thing. Many companies hand out samples of agricultural products, free.

Teachers, youth workers and 4-H leaders are all looking for such materials. You would think there would be no problem, since one group gives away what the other needs. But a problem does exist. Often, both miss each other in passing, and the word does not get out.

Jim Fay, a former university professor who now lives in Chatham (Sangamon County), has founded an organization called the Mid-America Foundation for Agriculture and the Gifted. Frank Thorp of Clinton, a seed corn producer and a director of Corn Belt Electric Cooperative, was a founding director of the organization and is still a board member. The organization

is a blending of agriculture, education and library interests.

Fay handles the day-to-day operation of the foundation, and he knows the location of virtually every agriculture sample, film or brochure, and he hopes to learn the location of those seeking such items, so he can bring them together.

Fay says that the big problem is that many potential users of the materials do not know about their existence. As a result, he adds, parents, educators and program planners have difficulty finding educational materials at the same time agriculture interest groups are having trouble making the public aware of the educational material they have to offer.

"The problem is especially chronic to parents and educators involved in gifted education who are constantly in need of materials to supplement the regular classroom fare," Fay says.

Operating out of his home, Fay emphasizes that he is not running a warehouse operation. "People come here expecting to see big stacks of bro-



chures and a film library and shelf after shelf of corn sweetener samples," he says with a laugh, "but I'm just serving as a clearinghouse between the people who have literature they want

to distribute and those who need it."

Fay says the goals of the foundation are two-fold: to help the public more fully understand and appreciate the role of agriculture in the society and economy and to serve parents, educators and community leaders in rural areas.

Fay, who grew up on a farm near Bement (Piatt County), points out that the Mid-America Foundation is not a farm organization or interest group of any kind. "It is not our intent to speak for agriculture or become involved in agricultural affairs. The other groups we work with are already doing that

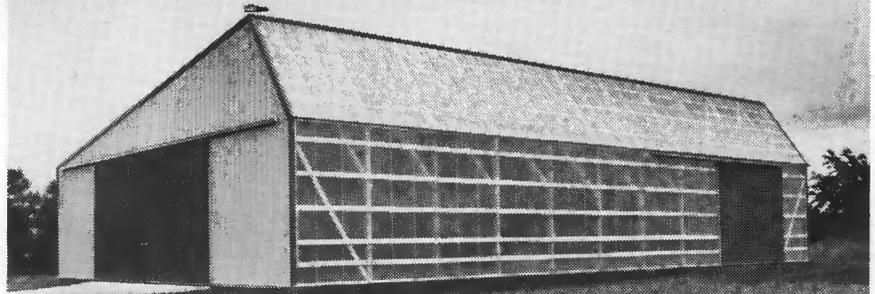
extremely well.

"Nor are we interested in second guessing educators or librarians. What we would like to do is facilitate a cross fertilization among these and other special fields of expertise.

"To my knowledge, this is the only organization of its kind in the country that maintains a full-time, professionally staffed office solely for this purpose," he says.

The services of the foundation are available free of charge to anyone by calling 217 482-4542 or writing the Mid-America Foundation, Box 328, Chatham, Illinois 62629.

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and keeps on skyrocketing 30-40-50 EVEN UP TO  
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IT'S ALMOST LIKE  
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INSTANT SHADE

**Actually Soars Into A Magnificent Tree  
IN JUST ONE YEAR!**

Yes! Based on amazing growth rates reported by plant scientists—it grows SO FAST... arches out SO WIDE... you can actually take a ruler and measure the incredible difference in height every 2 to 3 days! OR, to really leave your neighbors gasping in awe and wonder, give them a yardstick and let them measure the difference IN FEET every 2 to 3 weeks!

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**GROWS MORE IN JUST ONE MONTH THAN MOST  
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Because according to plant experts, Govt. scientists and Botanical Gardens who researched this wonder-hybrid... once established, you merely water it once-a-week, and be absolutely floored as, during its SUPER-SOARING growing season, it GROWS AS MUCH AS A FULL 1/2-FOOT WEEKLY AFTER EVERY TIME YOU WATER IT!

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No doubt about it. There's just not another "instant" Shade Tree like it on this planet! Because thanks to this miracle of plant science, instead of spending a small fortune on a tree and then waiting half a lifetime for it to grow... get set for the garden-wonder of your life as this super-soaring hybrid rockets forth from a prize nursery-grown plant to a tower of roof-high beauty in less time than you ever dreamed possible.

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Best of all, unlike most trees that demand constant care, constant pampering... about the only thing you do after you plant this super-growing wonder-hybrid is water it and enjoy it! That's why leading botanical gardens... landscape artists... garden editors... can't stop raving about its indescribable beauty... its trouble-free care... its surging, towering growth.

Small wonder that leading experts hail it in the most glowing terms... recommended it again and again for homeowners who want a stunning display of beauty... both a wind and privacy screen and deep, cool shade... and with practically no more work than a thorough watering each week!

**VITAL STATISTICS FROM LEADING EXPERTS**

**MATURE GROWTH SIZE:** as much as 40 to 65 feet

**MATURE SPREAD:** as much as 30 to 35 feet

**ZONE OF HARDINESS:** Hardy from the deepest South to as far North as Vermont, Minn., Quebec, British Columbia. Winter Hardy in areas where temp. drops as low as 30 degrees below zero.

**LIGHT NEEDS:** Grows beautifully in Sunny location.

**DECORATIVE MERITS:** Highly recommended by landscape architects as beautiful decorative specimens for homes, parks, highways, etc., where exceptional fast growth and beauty are required. Perfect for fast screening and privacy.

**RAPID RATE OF GROWTH:** Experts report growth rates on specimen trees that measure up to 8 FEET THE VERY FIRST YEAR ALONE. That's more than most shade trees grow in 3... 4... 5... even 7 years. Yes, once established will grow ranch-house-roof high IN JUST ONE SINGLE YEAR, that's right—The very next year after planting! Experts also report it soars an amazing 5 to 8 feet each year for YEARS thereafter. Naturally results are based on optimum growing conditions. Takes but 10 minutes to plant and normal care rewards you with a lifetime of beauty starting this very year.

**CARE:** Nothing special—just normal garden care. Water fully once weekly. Naturally resistant to most diseases, pests or insects.

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Now the price of this super growing shade tree is not \$20 or \$30 as you might expect, but a mere \$3.95!

That's right, only \$3.95 for this magnificent Beauty that rewards you with such a glorious display of growth IN JUST ONE SINGLE YEAR. However, our supply is limited! Full supplies from the growing fields will not be ready until late 1984 or early 1985. Therefore, all orders must be shipped on a first-come, first-shipped basis. To make sure you don't miss out... ACT NOW!

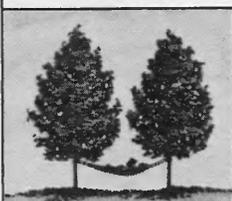
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Remember: Satisfaction is fully guaranteed. You must be thrilled in every way with this spectacular f-a-s-t growing shade tree or RETURN AT ANYTIME within 90 days for a full refund of purchase price... ANYTIME within 1 year for free replacement. Could anything be fairer? Now is the time to order and replant—so send no-risk coupon today!



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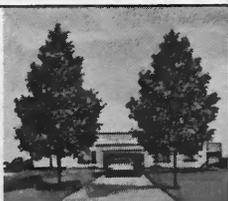
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Picture your patio bathed in the cool beauty of this show-stopping miracle tree from early spring to the first snows of winter.



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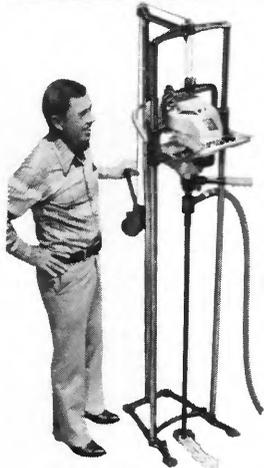


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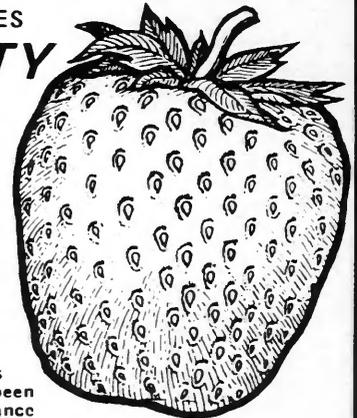
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## ASPARAGUS

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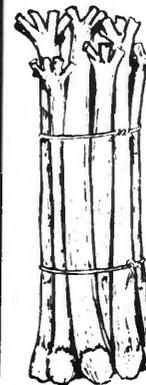
Big, tender, delicious — and perhaps the easiest of all summer vegetables! Once established the original planting usually produces for 20 years! Martha Washington variety produces abundant, giant-size with tender tips.

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# PENNY PINCHERS

## COFFEE CAKE

- 1 yellow cake mix
- 1/2 cup sugar
- 3/4 cup buttery oil

In separate bowl, mix 3 tablespoons brown sugar, 3 teaspoons cinnamon and 1/2 cup pecans. Pour half of cake batter in bundt pan, sprinkle on brown sugar mixture then rest of batter. Bake at 350 degrees for 1 hour.

## BAKED BEANS

- 1 can pork & beans (large 2 1/2)
- 1/2 cup brown sugar
- salt to taste
- 1 tablespoon mustard
- 1/4 cup catsup
- chopped onion

Strip with bacon (or add bacon drippings) and green pepper. Cook about 1 1/2 hours in 300 degree oven.

## CAJUN COUNTRY RED BEANS AND RICE

- 1 lb. dried red kidney beans, washed and sorted
- 2 qts. cold water
- 1 cup chopped yellow onion
- 3/4 cup chopped green pepper
- 1 cup minced celery
- 1/4 lb. (1 cup) smoked ham, minced
- 2 teaspoons salt
- 1/4 teaspoon cayenne pepper
- 1/8 teaspoon black pepper
- 3 tablespoons very thinly sliced green onion tops
- 3 tablespoons minced parsley
- 2 1/2 cups uncooked rice

Place beans in a very large kettle, add water, cover and soak overnight. Next day, add onions, green pepper, celery, ham, salt, cayenne and black pepper to the beans and their soaking water. Bring to boiling over high heat; lower heat so that liquid ripples gently. Cover; simmer 2 1/2 hours. Uncover, stir well, turn heat to lowest point and cook uncovered about 2 1/2 to 3 hours longer, stirring now and then until beans are very soft and mixture is about the consistency of chili. Stir in onion tops and parsley; cook for 10 minutes, stirring frequently. Cook rice according to package directions. Cook just before time to eat. Dish up the red beans and rice separately and put out big bowls so everyone can help himself to as much rice as he wants; ladle the red beans on top. Serves 8.

## PEANUT BUTTER MUFFINS

- 2 cups sifted flour
- 1 tablespoon baking powder
- 1 teaspoon salt
- 1/4 cup sugar
- 1/2 cup peanut butter
- 1 cup milk
- 2 eggs, beaten
- 2 tablespoons oil or margarine

Mix dry ingredients. Mix in peanut butter with a fork until crumbly. Add milk and eggs. Then add fat. Stir just enough to mix. Fill greased muffin pans half full. Bake at 400 degrees for about 25 minutes until browned. Yield: 12 muffins.

## FAMILY FAVORITE SKILLET SUPPER

- 6 pork chops
- 2/3 cup uncooked rice
- 1 cup water
- 2 teaspoons salt
- 1/2 cup chopped onion
- 1 lb. can tomatoes, broken up
- 1 cup whole kernel yellow corn
- 1/4 teaspoon black pepper

Trim some fat from pork chops; fry out in large skillet. Add chops and brown slowly on both sides. Lift out and pour off excess fat. Spread rice over bottom of skillet. Add water and sprinkle with 1 teaspoon salt. Arrange chops over rice and sprinkle with other 1 teaspoon salt. Add the onions and tomatoes. Spoon on the corn. Sprinkle with the black pepper. Bring to a boil. Turn heat down low; cover and simmer 25 to 30 minutes or until rice is tender. (Minute steaks may be substituted for pork chops. Brown in oil).

## BAKED LASAGNA

- 1 lb. ground beef
- 1 clove garlic, minced
- 2 tablespoons salad oil
- 1 8-oz. can tomato sauce
- 2 1/2 cups tomatoes
- 1 teaspoon salt
- 1/8 teaspoon pepper
- 1/2 teaspoon ground oregano
- 1/2 lb. lasagna or wide noodles
- 1 lb. cottage or ricotta cheese
- 1/2 cup grated Parmesan cheese
- 1/2 lb. mozzarella or Swiss cheese

Brown ground beef and garlic lightly in salad oil over medium heat. Add tomato sauce, tomatoes and seasonings; simmer for 30 minutes. Cook noodles until almost done; drain. Cover bottom of greased baking dish with 1 1/2 cups beef and tomato mixture. Place 1/2 of the noodles, one at a time, in dish until beef mixture is covered. Spread 1/2 of the cottage cheese on noodles; sprinkle with 1/2 of the Parmesan cheese and 1/3 of the mozzarella cheese. Repeat layers once. Top with remaining beef mixture and mozzarella cheese. Bake at 350 degrees for 45 minutes. Let stand for 15 minutes before cutting. Yield: 8 servings.

## MEXICAN SALAD

- 1 lb. ground beef
- 1/2 cup chopped onion
- 2 cups kidney beans, drained
- 1/2 cup French dressing
- 1 cup water
- 1 tablespoon chili powder
- 4 cups shredded lettuce
- 1/2 cup sliced green onions
- 2 cups sharp Cheddar cheese

Brown ground beef and onion. Stir in kidney beans, French dressing, water and chili powder; simmer 15 minutes. Add lettuce, green onions and 1 1/2 cups cheese; toss lightly. Sprinkle with remaining cheese. Serve with crisp tortillas, if desired. Yield: 4-6 servings.

## MEXICAN CHICKEN

Cook 4 large chicken breasts (boil or steam). Cool; skin and remove from bone. Cut into chunks. Mix: 1 can of mushroom soup, 1 can cream of chicken soup, 1 can Rotel tomato chilies, and 1 lb. sharp cheddar cheese, grated. Grease casserole dish; line with taco-flavored Doritos. Put layer of chicken, layer of soup mixture, layer of grated cheese in casserole dish until all is used. Let stand 24 hours in refrigerator. Bake at 300 degrees for 1 hour.

## CHICKEN AND DUMPLINGS

- 2 1/2 cups flour
- 1 teaspoon baking powder
- sweet milk
- 1/2 teaspoon salt
- 1/2 cup shortening
- 1/3 teaspoon white pepper

Sift flour, baking powder and salt and pepper together 3 or 4 times. Cut in shortening with a knife. Then crumble with tips of fingers. Add just enough sweet milk to make a very, very stiff dough, cutting in with edge of a spoon. Roll out on a well-floured dough board about 1/8-inch thick. Cut into strips or squares and drop into boiling stock in which chicken has been previously well cooked. The stock should be boiling madly when dumplings are dropped in. Then lower heat and cook slowly about 20 minutes.

## SOUR CREAM POUND CAKE

- 3 sticks oleo
- 3 cups sugar
- 6 eggs
- 3 cups flour
- 1 carton sour cream
- 1/4 teaspoon soda
- 1/4 teaspoon salt
- 1 tablespoon vanilla
- 1 cup frozen coconut

Cream sugar and butter, and add eggs, one at a time. Mix well after each egg. Sift soda and salt with flour and add to mixture little at a time. Then add sour cream, mix well. Add vanilla and frozen coconut. Bake in greased and floured tube pan at 300 degrees for 1 hour and 20 minutes.

## RICE CASSEROLE

- 1 cup Uncle Ben's rice
- 1 can beef consommé soup
- 1/2 can water
- 1 bunch green onions (chopped)
- 1 bell pepper (chopped)
- 1 jar sliced mushrooms
- 3/4 stick oleo
- salt and pepper to taste

Grease casserole. Pour in rice, consommé, water, salt and pepper. Sauté onions, bell peppers, and mushrooms in oleo. Pour in casserole. Bake at 350 degrees for 1 hour. Good to serve with fried chicken or pork chops.

## CARROT CAKE

- 2 cups flour
- 2 teaspoons baking powder
- 1 1/2 teaspoons soda
- 2 teaspoons cinnamon
- 1 teaspoon salt
- 2 cups sugar
- 4 eggs
- 1 1/2 cups oil
- 2 cups grated carrots
- 1 small can crushed pineapple
- 1/2 cup chopped pecans

Sift dry ingredients (with exception of sugar). Mix oil, sugar and eggs. Beat after each addition. Add dry ingredients to this mixture, mix well. Add carrots, pineapple and nuts. Bake at 350 degrees for 35-40 minutes. Makes 4-7" layers or 3-9" layers. Frost with Cream Cheese Icing.

## CREAM CHEESE ICING

- 1 box powdered sugar, sifted
- 1 stick margarine
- 1 8 oz. pkg. cream cheese
- 1 teaspoon vanilla

Cream together margarine and cream cheese, sift in powdered sugar gradually, beating after each addition. Add vanilla. Beat until creamy.

## ORIENTAL AMBROSIA

- 2 cans pineapple tidbits
- 2 cans Mandarin oranges
- 1 cup sour cream (see below)
- 1 cup miniature marshmallows
- 1 pkg. flaked coconut (7 oz.)
- dash of salt

Drain fruit (do not use juice). Mix all ingredients, saving a few pieces of fruit and coconut for topping.

## Sour Cream:

- 1 cup evaporated milk
  - 1/4 cup mild vinegar
- Mix and let stand for about 5 minutes to thicken. Use only 1 cup.

## MOCHA TORTE

- 1 pkg. white cake mix
- 1 6 oz. pkg. (1 cup) semi-sweet chocolate pieces
- 3 cups miniature marshmallows
- 1 cup whipping cream, whipped
- 1/2 cup milk
- 2 teaspoons instant coffee powder

Prepare cake mix according to package directions. Bake in greased 13 x 9 x 2 inch pan. Cool. Remove from pan. Cool completely.

## Frosting:

Combine chocolate chips, marshmallows, milk, and coffee powder in top of double boiler. Heat and stir over hot water till marshmallows melt. Remove from heat; cover and chill. Fold in whipped cream. Cut cake in half lengthwise; with long knife, split each half of cake into 2 layers, using row of toothpicks to guide knife. Spread chilled Mocha Frosting between layers; frost top and sides. Cover and chill for several hours. Slice about 1 inch thick.

### BEEF BOURBON

- 1 tablespoon butter
- 1 lb. round steak cut in serving pieces
- 3 tablespoons oil
- 4 tablespoons A-1 sauce
- 6 tablespoons Hines 57
- 3 tablespoons vinegar
- 3 tablespoons bourbon

Heat skillet over medium flame; add butter and round steak, saute till brown. Mix remaining ingredients and pour over steak, bake covered 2½ hours at 250 degrees.

### BROCCOLI CASSEROLE

- 1 cup minute rice
- 1 pkg. chopped frozen broccoli
- 1 onion, chopped
- 1 can cream of mushroom soup
- ½ cup evaporated milk
- ½ lb. Velveta cheese
- ½ cup cracker crumbs

Cook broccoli according to package directions. Brown the onion in margarine and add with rice to cooked broccoli. Fold in soup, milk and cheese. Pour into buttered casserole. Sprinkle with half cup cracker crumbs which have been mixed with half a stick margarine, melted. Bake at 350 degrees for 45 minutes.

### HEARTY BEAN-VEGETABLE CASSEROLE

- 1 eggplant (1½ lbs.)
- 1 teaspoon salt
- ¼ cup butter
- 1 cup chopped onion
- 1 clove garlic, crushed
- 1 large green pepper, cut into strips
- Shredded lettuce
- 1 can (28 oz.) stewed tomatoes, about 3½ cups
- 1 can (15 oz.) kidney beans, drained
- 2 teaspoons chili powder
- ½ teaspoon salt
- ¼ teaspoon pepper
- 2 cups (8 oz.) shredded Monterey Jack cheese

Preheat oven to 350 degrees. Wash eggplant; cut into 1-inch cubes. Place in bowl; sprinkle with 1 teaspoon salt. Let stand 20 minutes; pour off liquid. Pat dry with paper towels. Melt butter in large skillet. Add onion, garlic and green pepper. Cook, stirring, about 5 minutes. Add tomatoes, beans, chili powder, ½ teaspoon salt and pepper. Stir in eggplant. Pour into 3-quart casserole. Cover, bake 45 to 50 minutes. Remove from oven, let stand 5 minutes. Stir in 1 cup shredded cheese. To serve, ladle into soup plates or bowls. Pass shredded lettuce and remaining shredded cheese to sprinkle over each serving.

### GINGER BAKED PEARS

- 6 fresh whole Bosc pears
- 1 tablespoon lemon juice
- ½ cup sugar
- ¼ cup water
- ½ teaspoon ground ginger
- 12 narrow strips of lemon peel
- Sour cream

Preheat oven to 350 degrees. Peel pears; cut thin slice from bottom so pears will stand upright. Rub with lemon juice. Place in deep casserole or Dutch oven. Combine sugar, water and ginger in saucepan. Bring to a boil; boil 3 minutes. Pour over pears. Add strips of lemon peel. Cover (use tent of aluminum foil if matching casserole cover not available). Bake 30 to 35 minutes. Serve warm with sour cream.

### COTTAGE CHEESE DIP

- 1 carton (16 oz.) small curd cottage cheese
- 2 teaspoons grated onion
- 2 teaspoons prepared horseradish
- ¼ teaspoon celery salt
- ½ teaspoon Worcestershire sauce
- ½ teaspoon salt
- Fresh vegetable relishes

Beat cottage cheese on high speed of mixer for 5 minutes. (Or, place in blender or food processor a few seconds to smooth.) Add onion, horseradish, Worcestershire sauce, salt and celery salt; blend thoroughly. Cover and chill at least 30 minutes to blend flavors. Serve with fresh vegetable relishes.

### BUTTERY HERB RYE BREAD

- ½ cup (1 stick) butter
- 1 small clove garlic, crushed
- ¼ teaspoon basil, crushed
- ¼ teaspoon rosemary, crushed
- ½ teaspoon thyme, crushed
- 1 loaf (16 oz.) rye bread

Preheat oven to 400 degrees. Combine softened butter with garlic, basil, rosemary and thyme; mix well. Slice bread in 1-inch slices down to but not through bottom crust. Cut in half lengthwise but not through bottom crust. Spread butter mixture on all cut surfaces. Wrap in foil but do not cover top. Heat 10 to 12 minutes until very hot and lightly toasted on top.

### ORANGE CASHEW CAKE

- ¼ cup graham cracker crumbs
- ½ teaspoon nutmeg
- ¼ lb. butter
- 4 eggs, separated
- ¼ cups sugar
- 1 cup salted cashews, ground (put through food grinder or whirl in covered electric blender)
- 2 teaspoons freshly grated orange peel
- 2½ cups sifted flour
- 3 teaspoons baking powder
- ½ teaspoon salt
- 1½ cups freshly squeezed orange juice

Grease a 9-inch spring form cake pan. Combine graham cracker crumbs and nutmeg; sprinkle evenly over inside of greased pan. Cream butter, egg yolks and 1 cup sugar until light and fluffy. Add cashews and orange peel. Sift together flour, baking powder and salt; add to creamed mixture alternately with 1 cup orange juice, beginning and ending with flour mixture. Fold in stiffly beaten egg whites. Turn into prepared pan; bake at 350 degrees for 1 to 1¼ hours, until cake tests done. In small saucepan bring remaining orange juice and sugar to a boil, reduce heat and simmer for 10 minutes. Pour over top of hot cake. Let cake cool completely in pan.

### STRAWBERRY SALAD

- 1 large Cool-Whip
- 1 cup sweetened condensed milk
- 1 small can crushed pineapple
- 1 can strawberry pie filling
- ½ cup flattened pecans

Combine all ingredients, place in a flat baking dish, chill in refrigerator. (I serve with pound cake.)



### CHICKEN CASSEROLE

- 1 can cream of chicken soup
- 1 small carton of sour cream
- 1 small jar chopped pimento
- 1 large can (6 ozs.) mushrooms
- 2 cups cooked noodles
- 2 cups chopped cooked chicken
- ½ cup water
- salt and pepper to taste

Combine all ingredients in a casserole and bake covered at 350 degrees for 30 minutes.

### ZIPPY ORANGE CHICKEN

- Chicken:
- 1 tablespoon grated orange peel
- ¾ cup orange juice
- 1 tablespoon grated onion
- ½ teaspoon salt
- ¼ teaspoon dry mustard
- ½ teaspoon hot pepper sauce
- 1 broiler-fryer chicken, cut up
- 2½ to 3 lbs.
- ½ cup all-purpose flour
- ½ teaspoon paprika
- ½ teaspoon salt
- ½ teaspoon pepper
- 4 tablespoons (½ stick) butter
- Gravy:
- 2 tablespoons drippings
- 2 tablespoons remaining flour mixture
- 1¼ cups remaining marinade

For chicken: prepare marinade by combining orange peel and juice, onion, salt, mustard and hot pepper sauce. Place chicken in marinade; cover and refrigerate several hours or overnight. Preheat oven to 375 degrees. Combine flour, paprika, salt and pepper in a clean paper bag. Add chicken pieces one at a time; shake to coat evenly. Reserve remaining flour mixture and marinade. Melt butter in 13 x 9 x 2-inch baking pan. Dip both sides of chicken in melted butter. Place in a single layer, skin side up in pan. Bake 50 minutes or until tender. Remove chicken to warm platter; keep warm. For gravy: stir flour mixture into drippings until smooth in a 1-quart saucepan. Gradually add marinade. (If necessary add water to make 1¼ cups.) Heat to boiling, stirring constantly. Boil and stir 1 minute. Serve gravy with chicken.

### SWISS DOUBLE BAKES

- 2 large baking potatoes
- ½ cup dairy sour cream
- 1 tablespoon butter
- ½ teaspoon salt
- dash pepper
- ½ cup (2 ozs.) shredded Swiss cheese
- 1 tablespoon chopped pimiento

Preheat oven to 375 degrees. Scrub potatoes; puncture skins with a fork several times. Bake until tender, about 1 hour. Cut hot potatoes in half lengthwise; scoop out potato, saving shells. Whip together potatoes, sour cream, butter, salt and pepper. Fold in cheese and pimiento. Spoon mixture into shells. Place on baking sheet and return to oven until heated through and lightly browned, about 15 minutes. Serve immediately to 4.

### BAKED CARROTS AND PARSNIPS

- 1½ cups peeled and julienne-sliced carrots
- 1½ cups peeled and julienne-sliced parsnips
- 1 tablespoon water
- ¼ teaspoon dill weed
- ¼ teaspoon parsley flakes
- 3 tablespoons butter

Preheat oven to 375 degrees. Place carrots and parsnips in a 1-quart covered casserole; add water. Sprinkle on dill and parsley and dot with butter. Cover and bake 30 to 40 minutes or until tender.

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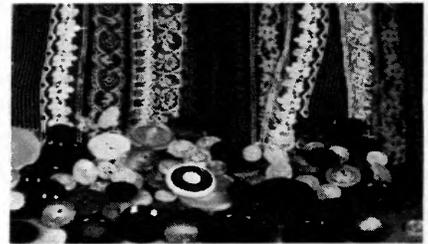
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*Mr. and Mrs. White on the porch of their old-fashioned general store. The structure, which is about 80 years old, has been in its present location 50 years, having been moved from across the street.*

---

## Helena general store a community fixture

---

**W**hite's General Store in Helena (Lawrence County) will not be confused with some of the big, brightly lighted supermarkets in many towns and cities, but it fills a very real

need in the small east-central Illinois town.

The building looks like it could be 80 years old. In fact, it is, and the store has been in the building nearly 60 years, and Norris Electric Cooperative has supplied it with electricity ever since rural electrification came to the area many years ago.

Entering the store verifies the fact that this is not your everyday supermarket. The smell of years of floor polish mingles with the odor of general hardware; many kinds of hardware

ILLINOIS RURAL ELECTRIC NEWS

adorn the walls — the kind of hardware you would never see in a supermarket.

If you need a coal scuttle, you can get it at Hugh White's. A hog ringer? No problem. An old hand-operated pitcher pump is available, too, if you happen to need one. There are plenty of staples on the shelves, because White's store handles staple items for area farms, serving rural area farmers who'd rather not make a trip into town to make a few small purchases. Cold cuts are available, too, and a microwave sandwich setup is a concession to modern life.

The store Mr. and Mrs. White operate has been in its present location since 1925, and had actually been located across the road before that. "There were two stores," Mrs. White notes, "and the one that was here burned down. This one was over there where the Norris Electric substation is now, and they moved it over here, so there's been a store here for about 80 years, as far as we can tell."

And the Whites should know. They've been there nearly 50 years, and have owned the store since 1945. Hugh went to work there in 1934 as an employee, and Mrs. White, whose father owned a store in the town, too, has some 48 years of seniority.

The Whites raised two children on their place next to the store, and have proved that you don't need to have a big operation to make it, if your small operation is run in a courteous, friendly manner.



The Whites surrounded by some of the often hard-to-find equipment in their store. They stock wooden bucket ice cream freezers, hog ringers, and any number of other items in their store in Helena.

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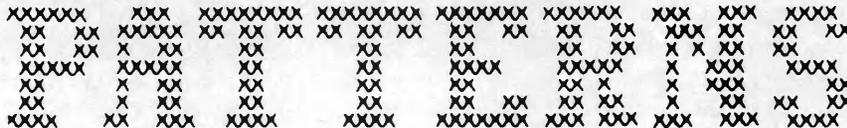
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- No. 7203 includes beret and legwarmers. Crochet instructions. One size fits all.
- No. 855 is a stuffed frog toy, tissue pattern for frog about 18 inches, top to feet.
- No. 4746 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½. Size 14½ (bust 37) takes 3-3/8 yards 45-inch.
- No. 9171 is cut in sizes (8, 10, 12), (14, 16, 18). Order your regular size.
- No. 730 is crocheted afghan with matching pillow. Afghan is about 44 x 66 inches.
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Illinois Rural Electric News  
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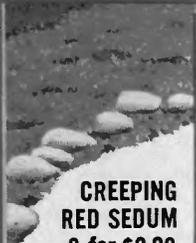
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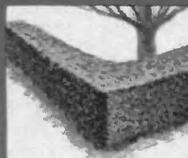
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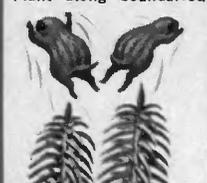
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