

Number 63
Fall 1984

The Magazine of Self-Sufficient Living

\$2.50

FARMSTEAD

Gardening • Energy • Building • Livestock • Recipes • Farming

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Antique Apple Varieties

How to Cash-In on
Chinese Vegetables

Hyacinths and
Fall Leaves

Ear Corn Harvest

Livestock

Haffingers:
New Breed of
Small Work Horse

All About Geese

Home Energy

What's New with
Wood Stoves

Solar Retrofit for
an Old Farmhouse

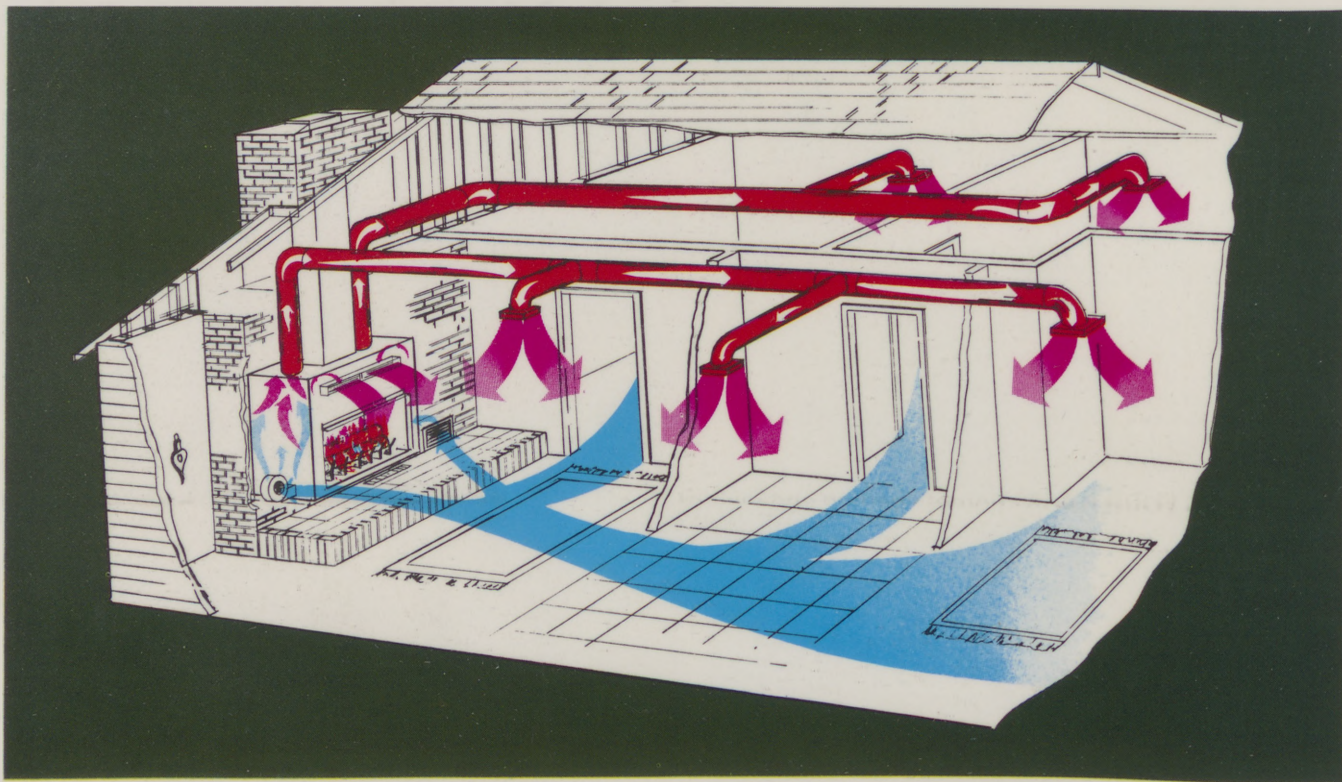
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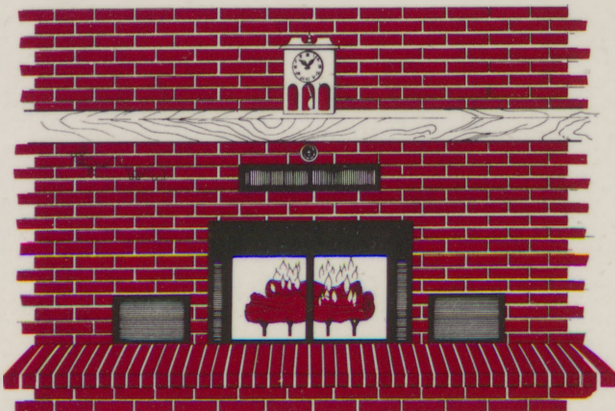
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The Magazine of Self-Sufficient Living

FARMSTEAD

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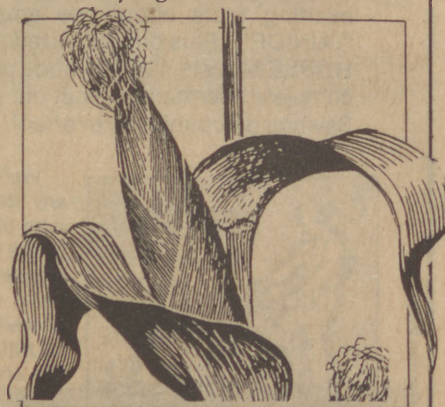
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Page 50. An old way of harvesting ear corn makes new sense.

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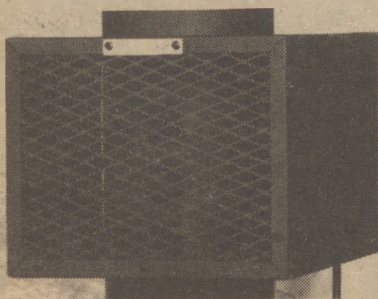
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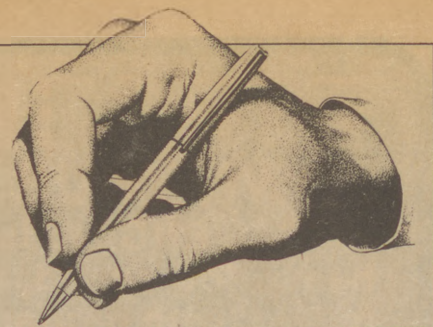


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LETTERS



A SALAD BAR FAN

Dear FARMSTEAD:

I've only received your Spring '84 issue and already I know I enjoy FARMSTEAD to the hilt. I sure hope the next issue comes out soon. As soon as I go back to work, I plan to order some back issues.

Your article on "A Salad Bar for Chickens" is great and it really does work. The chickens love it as much as I do. Thank you for the magazine.

Michael T. Snider

OUR ERROR

Dear FARMSTEAD:

Oops! There's an error in the illustration accompanying my article in the Spring '84 issue, "Try Trench-Grown 'Taters." The picture shows a cross-section of a planted trench. There should be only one tuber (not the three shown) as the potatoes are planted singly down the row. Hope this clears up any questions your reader may have had. Thanks.

Diane Sutton

TOOLS FOR SMALL-SCALE FARMERS

Dear FARMSTEAD:

University of Maine at Orono recently hosted a conference devoted to appropriate technology for small-scale agriculture--something of interest to FARMSTEAD's readers. The conference was organized by the subcommittee on agriculture, part of the committee of the six New England governors and the five eastern Cana-

dian premiers, in order to investigate ways to help small-scale farmers, orchardists and foresters.

So the conference participants wisely decided to cooperate as a bioregion, that is a geographical area of similar climate. They defined small-scale as anything commercial or where sales of produce were made. The group agreed on a service which would maximize the flow of information from equipment manufacturers to growers. This information service might start with a toll-free phone number backed by a small staff to answer growers' queries about sources of equipment. From there it could evolve

Because participants are aware of the dangers of commodity orientation (the concept that bigger equipment helps produce more apples or hay or what have you), they recommended collecting and disseminating information on **whole farm systems**, meaning on diverse operations which often surpass large monoculture systems in efficiency and which are closely studied in Europe.

David Tresemer
Brattleboro, Vermont

Editor's note: We think this conference raises some questions of importance for FARMSTEAD and its readers. What tools are you lacking in your small-scale operation? Our question includes hand tools as well as machinery used to farm 20 acres, for example, of intensive production. What production problems have you solved by devising your own tool?

Because this type of information is basic to successful self-sufficient living, the editors at FARMSTEAD would like to know your needs, your solutions, your sources and the size of your "small-scale" operation. Send your letters to **TOOLS**, c/o FARMSTEAD, Box 111, Freedom, Maine 04941.

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FARMSTEAD

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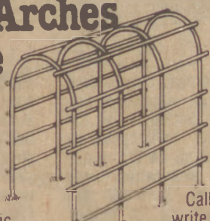
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Grit--Baked, crushed eggshells.

Minerals--Put a box of dirt in the pen, or let the chickens roam outdoors.

Food and water--Garbage and scratch.

Fresh hay in the laying boxes.

Treat for parasites--Dust birds with rotenone.

Treat for worms--Medicine.

Treat for coccidiosis--Medicine

Psychology--Talk to the hens; threaten them if necessary.

Rooster--It's true that a rooster in the flock will keep the hens happy.

Wait patiently.

I am interested in raising pea fowl but have not been able to find any literature or books on this subject. Do you know of any place where I can get this information?

Stromberg's of Pine River, Minnesota 56474 offer a Pea Fowl Bulletin for \$2.50. The American Waterfowl and Pheasant Society puts out, *Gamebird Magazine*, which sometimes covers pea fowl. A subscription to *Gamebird* comes with membership in the society. You can send \$15.00 in dues to Lloyd Ure, Secretary-Treasurer, Route 1, Granton, Wisconsin 54436. Ure may also be able to help you locate a particular issue with pea fowl material, so ask him about back issues.

In the Spring '84 issue [No. 60] we read about the salad bar for chickens. We have tried everywhere--even our

county agent--to find seeds or plants for comfrey without luck. Where can we get some comfrey?

The Rosemary House, 120 Mechanic Street, Mechanicsburg, Pennsylvania 17055 sells both seeds and plants as well as a packet of information and recipe papers. They do mention that the seeds are sometimes scarce.

The Sandy Mush Herb Nursery, Route 2, Surret Cove Road, Leicester, North Carolina 28748 also sells comfrey plants.

Otto Richter and Sons, Ltd., Goodwood, Ontario, Canada 1LOC 1AO sells three varieties of comfrey seeds.

Write to any or all of these sources and request a catalog. The ordering and price information varies for each firm. And let us know how your salad bar works out!



Do pumpkins, squash and ornamental gourds cross?

Pumpkins, squash and gourds are divided into three species: *pepo*, *moschata* and *maxima*. The *pepo* and *moschata* have a woody, ridged, five-angled fruit stem and are generally called the true pumpkins. The *maxima* types have soft, cylindrical fruit stems, swollen at the base and are called the true squashes. Crosses take place readily between two of the same species but are less common between species. *Pepo* types cannot cross with *maxima* types. The *moschata* is apparently more intermediate; crosses have been made between this and other types--but these crosses are relatively rare in the garden.

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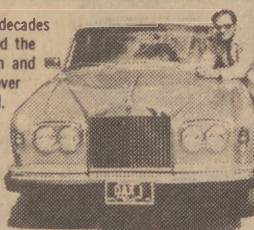
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His writings have been used in numerous style and content workshops and accredited courses at such institutions as California State University, UCLA, Fordham, University of Illinois and Worcester Polytechnic Institute.



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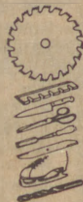
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NEWS
INFORMATION
IDEAS

organicism grows

Organic farming in western Europe has grown steadily over the last 15 years. This increase appears to be due mainly to European consumer concerns about healthy diets, product promotion, rising costs of farm chemicals and involvement of organic farming organizations. A related factor is the fact that most European farms are small and diversified.

--National Food Review
USDA Economic Research Service



rotten idea

Based on the idea that nothing smells as bad as rotten egg, some Louisiana farmers have been spraying their fields with a dilute egg mixture to discourage deer from nibbling on young soybean plants.

"I've followed up on this and it does seem to be effective," says Charles James, county agent in Tensas Parish, where the idea originated. "When the eggs land on the beans, they apparently give off an odor that is repellant to deer, even though humans can't smell it."

--National Wildlife

gamma rays

While no substitute for EDB as a soil fumigant, gamma radiation may replace many of EDB's outlawed uses in food processing. The radiation process leaves no radioactive residue.

--Science News, Vol. 125



good ol' smokey

This year marks the fortieth birthday of Smokey Bear—one of America's most lovable and effective public service symbols. From 1944 to the present, Smokey has presented his forest fire prevention message in a manner that made it one of the most remembered and understood slogans in our history—"Remember, Only You Can Prevent Forest Fires."

There is little doubt that Smokey's efforts to raise our consciousness have paid major dividends in terms of protecting the United States' wildlands.

--U.S. Department of Agriculture
Forest Service

catfish crop

Arizona farmers are finding that raising fish in irrigation water is a profitable way to get the most out of a valuable resource.

Not only does aquaculture produce a second cash crop from the water used, but fish wastes also provide a natural source of fertilizer.

So far, catfish and trout are popular among fish farmers, but tilapia is also becoming a favorite. A hearty fish that reproduces rapidly, tilapia tolerates extremely warm temperatures, which makes them ideally suited to Arizona's geothermal waters, says Bill Salser, aquaculture specialist at the University of Arizona.

--International Wildlife

The Weekend Gardener by Jim Bennett

Setting Your Garden Sites

Right about now you may be thinking about starting a new garden next spring or expanding your existing garden site. If you want to clear the area of grass and weeds try this: Simply cover the area with black plastic and anchor the plastic with bricks or roads or boards. Leave the plastic in place for several weeks. The plant life underneath the plastic will die and the soil will become soft and moist in addition to being almost disease free as a result of the heat absorbed by the plastic from the sun.

Remember when you are picking a spot for your garden make sure the plot is level and located in an area that gets seven to eight hours of sunlight a day.

Sizing Things Up

One way to determine how big to make your garden is to set up your sprinklers. Let the

sprinklers run for a short time and then make your garden the size and shape of the sprinkler pattern. This way you will always get good water coverage and the plants at the end of your rows will do as well as those at the beginning of the rows.

Save a Seed

If you save your own seeds, be sure to save only the best, bug-free seeds. Of course, make sure you are not saving seeds from hybrid plants. Store your seeds in a cool, dry place, such as a Mason jar. To keep the seeds dry, put a little powdered milk in the jar this way: Simply place two heaping tablespoons of powdered milk in the center of a tissue paper; fold it up; wrap a rubber band around it, and drop it in the jar. The powdered milk will absorb any moisture in the jar until you plant the seeds.

To make sure your seeds are bug-free, mix equal parts cinnamon and nutmeg and sprinkle this on the seeds before sealing them in the Mason jar.

Jim Bennett is the host of the nationally syndicated television program "The Weekend Gardener." Check your local listings for channels and times in your area.

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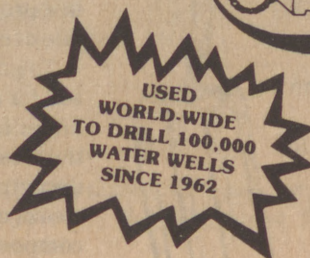
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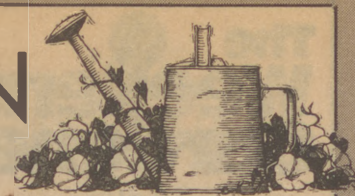
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FARMSTEAD MAGAZINE 9

YOUR GREEN GARDEN

A Newsletter for the Home Gardener



Cut gourd as shown above to make planter.

GOURD FUN

Large gourds can be made into bird houses or flower planters. Pick your gourds in the fall when the stems dry, or as late as possible before a hard frost. Let them dry in a warm place. They will feel very light when they are completely dry. Be sure they are dry before you cut into them or they will rot.

To make a wren house, cut a hole the size of a quarter in one side of the gourd. Remove the seeds. You can save the seeds to plant next year. Make a small hole in the bottom to let out any rain that may get inside. Make a hole on each side of the neck for a hanging wire. The house is ready for some lucky wren next spring. It should not have a perch, because sparrows will sit on it and tease the wrens. Hang the wren house six to seven feet high.

To make a martin house, simply make a larger door--two and a quarter inches in diameter. Make several houses and hang them up in a group since martins like to live in communities. The martin houses should be hung twelve to fifteen feet high.

To make planters, use a keyhole saw and cut a large gourd straight down from the neck, about one third of the way down into the fat part of the gourd. Cut from the side into the first cut. Do this on both sides. Remove the seeds. Now make a small hole in the bottom for drainage and two holes in the neck for a hanging wire. Fill with soil and plant a small trailing plant in each side.

--Sharon K. Graham
Kingman, Indiana

TRY HOLLAND GREENS

If you want a pleasant-tasting, quick-growing green, try 'Tyfon Holland' greens. They are a cross between stubble turnips and Chinese cabbage. One plant combines the rich, dark, green taste of turnip tops and the juicy crunch of Chinese cabbage. And there is no bitter taste since the leaves contain no mustard oil.

Sow seeds from early spring to late fall. Since the plants get played out in the heat, it's better to grow them in cooler weather.

Seeds are available from Nichols Garden Nursery, 1190 North Pacific Highway, Albany, Oregon 97321.

KIND TO KNEES

Down on your knees? Prevent contact with rash-raising weeds. An old hot water bottle filled with sand or sawdust makes a good kneeling pad.

--Frances S. Goulart

COMPOST WITH CARE

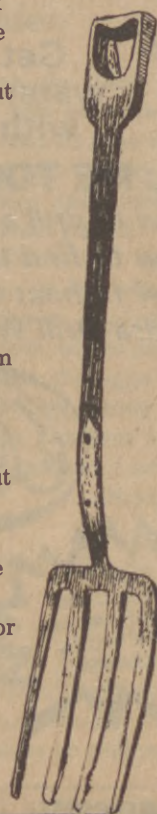
Not all organic material should go into your compost pile. Destroy all plant matter infected with rose black spot, aspen leaf spot or white mold. Do not put them in your compost bin.

White mold is often found on zinnias, marigolds, snapdragons and petunias, and on beans, squash and pumpkins. Usually, gardeners notice it when their plants suddenly wilt and die. Squash that succumbs to white mold quickly rots. The sclerotia, tiny black, hard bodies of fungus on white mold, will survive winter freezing and the heat of the compost pile.

Other organisms causing most plant diseases are destroyed by the high temperatures--near 160 degrees F.--generated in a properly managed compost pile, not just a pile of organic debris left unattended.

To get good composting, add an inch or so of soil for each layer of compost. Keep the material moist and turn it each month when the weather permits. Fast composting that decomposes the organic matter within six weeks can be accomplished by turning the compost every few days.

--Cleon M. Kotter
Utah State Extension



CITRUS OIL BUG KILLER

In the near future we may be using citrus oil to kill pestering insects.

Research was done at the University of Georgia using test insecticides made from an extract of the natural oils in oranges, grapefruits, lemons and limes. So far, the oil successfully killed houseflies, fire ants, black soldier flies, paper wasps and grey crickets. It even killed fleas on a cat named Louie, the mascot of the lab who was persuaded to take part in the experiment. He was dipped in water containing a small amount of citrus oil and came up somewhat disgruntled but free of fleas. He licked his fur clean with no ill effects.

The lethal chemical in citrus oil has not yet been isolated. No detectable residues of any commonly used insecticide in the citrus peel extract have been found. Intact fruit does not harm insects confined with it in a cage. But when the peel of a lime was scored with a knife, after 15 minutes houseflies were unable to walk; after two hours they were dead.

Apparently, citrus peels are non-toxic to humans and animals, and smell good too. A way to produce it economically for use on home and garden will have to be found. Early research looks promising.

--Georgia Extension



WINTER PARSLEY

Bring a parsley plant indoors for use during winter. Pot, then cut back leaves to the crown so it will make new growth. Water sparingly until it starts to grow.

--Rose Hoover

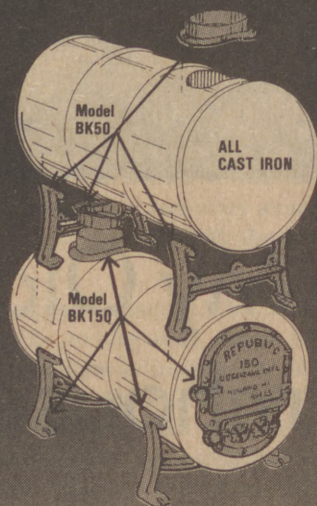
SEED SEARCHERS

We are searching for ITALIAN FINGER WAX pepper seed. Also, does anyone know a source for WHITE PUMPKINS?

Larry Starr
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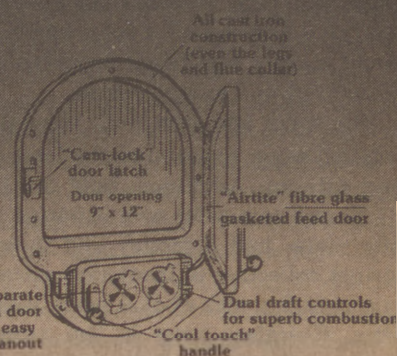
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In the summer of 1979, I purchased a 30-acre farm in rural New Jersey. Located atop a ridge outside Hopewell, the primary feature of the property was a 150-year-old stone farmhouse which had, over the years, acquired woodframe additions on the east, north, and west sides and a single-story screened porch on the south. With its longest side oriented 10 degrees east of solar south, the farmhouse seemed a prime candidate for a solar retrofit. It was also an opportunity to combine my skills as a builder with the knowledge of solar I had developed as a designer, energy analyst, and project manager with the Princeton Energy Group.

As a designer/builder and owner, I had the freedom to explore my curiosity in design, and the job of translating these ideas into reality with my own skills and money. If anything went wrong during construction, I had no one to blame but myself. Luckily, finances dictated that the project be stretched out over four years, so I had many long winter evenings to dream of energy-saving strategies and weed out the less promising ideas.

Insulate First

The first step in the retrofit was to assess the existing thermal condition of the building; then to develop an affordable plan to reduce the heating load to a level where a solar addition could make a significant contribution to comfort and energy needs.

The south and west walls were the original stone, exposed on the interior and exterior. Additions, built on the north and east sides over a period of 100 years, had a motley and inconsistent collection of insulation materials including rock wool in parts of the attic, fiberglass batts in the newer walls, and acorns left by rodents in otherwise empty stud spaces.

The insulation strategy had to be economical and practical and preserve the exterior appearance of the stone and frame elements that gave the house its character. Various foamed-



Warming Up My Old, Cold Farmhouse

A 150-year-old stone farmhouse benefits from insulation and a bright new sunspace.

in-place products were considered and rejected as being too expensive, complicated, unreliable, or toxic. Installing fiberglass batts with a vapor barrier was ruled out because of the labor hours required to remove and replace the interior finishes of

wood and plaster and because of its intrusion on the living space. Time and materials costs prohibited the use of exterior rigid insulation and new siding.

The final choice was a recycled cellulose insulation, treated to resist



The author's two-story sunspace carefully integrates innovative passive solar design concepts with the traditional features of an old fieldstone farmhouse.

fire and rodents. Cellulose was applicable to the wide range of existing conditions in the building, and offered low costs per unit of R-value and easy installation. Wall cavities were filled at 3 psi through 1-inch holes drilled in the walls and then plugged with cork seals.

Twelve inches of loose material was blown into the attic. We even filled cavities previously insulated since the quality of the earlier workmanship was questionable. To retard water vapor migration, we applied vapor-resistant paint finishes on the interior walls with special attention to kitchen and bathrooms with high humidity.

Several friends helped me install insulation over the course of a single weekend using simple portable equipment and hand tools. The materials cost \$990 in the fall of 1979. This step,

combined with general measures to control air infiltration--weatherstripping of doors, reglazing cracked windows, caulking and insulating heating supply pipes--reduced the actual heating load by 47 percent when corrected for degree days. These results are presented in the table.

The massive stone wall on the west side of the house, in part a wide chimney, was impractical to insulate. Any option would have been costly and compromised the aesthetics of the home.

Sunspace Addition

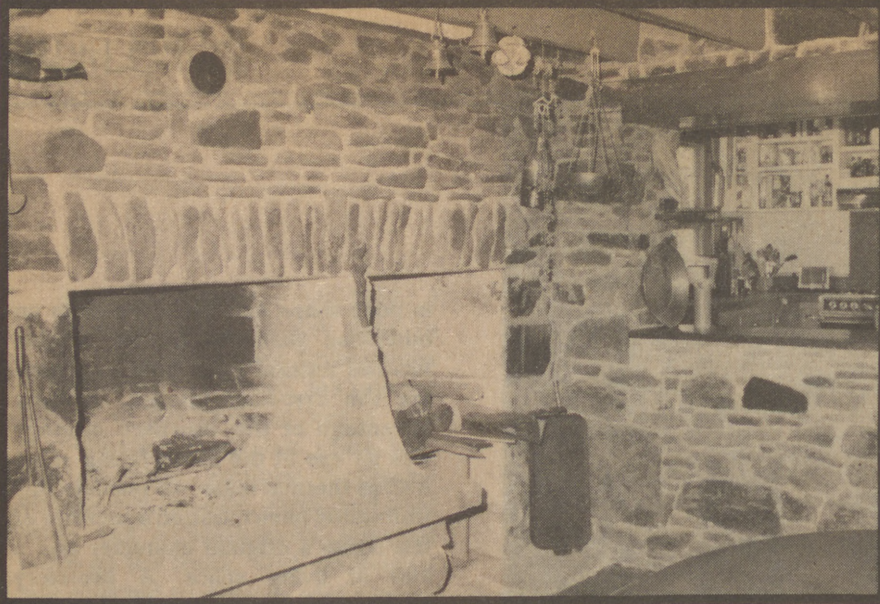
The prospect of adding a heat-producing sunspace held appeal from the start. The undistinguished single-story screened porch on the south was

in poor shape and detracted from an otherwise attractive facade. It also blocked natural light from brightening the first-floor interior. A clear advantage of the sunspace strategy was its use of the south-facing stone wall as thermal mass. To insulate this wall would have required a sacrifice of the house's original character and a loss of living space. A two-story attached sunspace would integrate well with the house thermally. It would passively drive heated air to the second floor bedroom and return air would flow down the central stair hall.

Visually, the sunspace was designed to unify the disparate elements of the house, balancing the cluster of wood-frame additions that surround the original stone structure. The slope of the sunspace roof was matched to the roof plane to make the transition from old to new as unobtrusive as possible. I chose CYRO's acrylic glazing overhead because of its ease of application and safety features. The loss of clear views from the second floor windows and up to the sky seemed like a fair tradeoff. The sunspace has increased the perceived space and light in the building and increased the actual living space by 264 square feet to 1880 square feet.

The sunspace is structurally free-standing rather than a lean-to configuration. The wisdom of this decision was confirmed when we removed the existing porch and discovered that the stone wall was six inches out of square, had a large bulge in the middle, and provided no good place to attach the ledger beam required for a lean-to structure. For the rear supporting wall and rafters we used rough-sawn, oversized timbers. Bolt- ing rafters to posts through mortise and tenon joints was time-consuming, but produced a rigid and durable frame. The timbers create an authentic rustic effect and tie old to new on the interior.

For night insulation, I modified a low-cost insulating shade made by Simtrac for commercial greenhouses. The double-layer polyester shades



The redesigned fireplace adds warmth and charm to the author's kitchen.

A Change of Hearth

by Vinton Lawrence

An open plan design and a more efficient fireplace bring out the charm in a country kitchen.

In the spring and early summer of 1982, confident that the solar addition to my farmhouse was performing well, I turned my attention to the kitchen and dining/living area. The original kitchen had been located in the room directly adjacent to the new sunspace, a room formed by the walls of the old stone farmhouse. Over the years, the kitchen had been "modernized" by adding a gas stove, refrigerator, linoleum flooring and a host of cabinets and counters. Although the kitchen was functional in layout, it was nondescript in character.

The kitchen occupied the most potentially attractive interior space in the house. At the west end of the room was a massive fieldstone wall. Careful inspection of the mortar joints in the chimney wall and hearth revealed that the masonry had collapsed at least once in the past. The earlier, small fireplace with a brick beehive oven beside it had been rebuilt into a "walk-in" type fireplace which looked unused. After the

rebuilding, a thimble had been punched through the wall above the hearth into the smoke chamber in order to connect a wood burning cookstove. It was clear from the size of the flue that the probable reason for this woodstove modification was that the rebuilt "walk-in" fireplace had never worked properly due to an insufficient draft from the chimney. The flue area was approximately 10" x 10", yet the hearth was a grand four and a half feet high and over six feet wide.

Because I wanted to retain the hearth idea as a feature of the renovated room, it was necessary to redesign the actual firebox in order to provide a sufficient draft. A convenient rule-of-thumb for designing a fireplace allows 1 square inch of flue area for each 10 square inches of fireplace opening. By raising the hearth to sitting height and narrowing the opening by a third, the chimney could be used for an efficient "modified Rumford" type fireplace with a shallow firebox, sloped sides, and a

relatively square opening. Although fireplaces are not by nature, efficient, the Rumford design* provides for maximum radiant heat from an open hearth.

The mortar in the chimney was old and cracked and therefore posed a potential fire hazard since it was packed with creosote. I decided to reline the chimney. This was accomplished in a nontraditional way, using a process called "Supaflu" in which liquid, high-temperature mortar is pumped into the flue cavity around an inflated rubber tube form which has been inserted into the chimney from the top. When the mortar has dried, the tube is deflated and withdrawn, leaving a smooth, seamless, round flue which has sealed out the earlier creosote deposits. Although relatively expensive, it is fast and avoids the masonry work associated with other methods of chimney lining.

Other changes to the rooms included the removal of a plasterboard wall to reveal the old masonry and plaster on the south side of the room. This increased the floor area by about 10 square feet and improved the thermal coupling between the solar storage wall and the interior. The linoleum flooring was replaced by random width pumpkin pine floorboards salvaged from a 200-year-old house which had been demolished nearby. The kitchen itself was relocated in a room to the north of the living/dining area. Appliances, plumbing and cabinetry were arranged along the north wall to help buffer the heat loss from those areas. I also built a double door entryway and mudroom to act as an airlock in the winter, thereby reducing the infiltration of cold air into the living area. The kitchen cabinets were recycled into the new kitchen and the countertops were finished with small square, ceramic quarry tiles and edged with home-grown cherry one-by-two strips. Track lights were used over the kitchen counter to provide efficient task-lighting.

The overall result of the changes has been the creation of a truly open plan kitchen which allows the cook to share the conversation of guests and permits all to share the warmth and light of a friendly fire. □

*See "The Rumford Fireplace," in the Holiday 1981 issue of FARMSTEAD.

slide on taut plastic-coated cables, and fold like "Roman" shades. We installed the system at under \$1 per square foot.

Cost and Performance

Quite clearly, the insulation and general upgrading of the thermal envelope had the most dramatic effect and was the most cost-effective step. Oil consumption was reduced by 50 percent through an expenditure that was repaid in realized savings before the second year of operation. The addition of a more efficient wood stove and a new chimney in the living



The South-East view showing plant-ing table.

room was the second major change. The savings attributable to this step were only 5,8 MMBtu, equivalent to \$70 in reduced auxiliary energy costs, but the stove significantly improved the comfort level in that section of the house. The cost of wood has not been factored into heating calculations since it is harvested by the author. This affects the analysis little since firewood consumption has remained at a constant level of 1 to 1½ cords per season for each year of the project.

The sunspace addition increased the actual square footage of the house by 13 percent while reducing the use of nonrenewable energy for heating from 6.24 Btu to an average of 2.14 Btu, a 65-percent passive solar contribution.

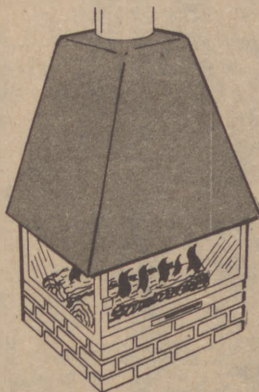
Finally, in 1982, several changes were made to the layout of the downstairs spaces. These included

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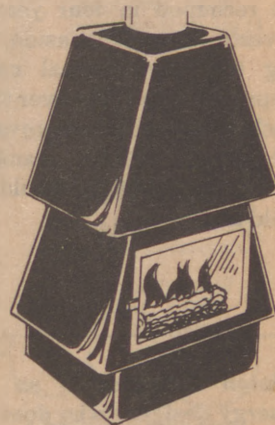
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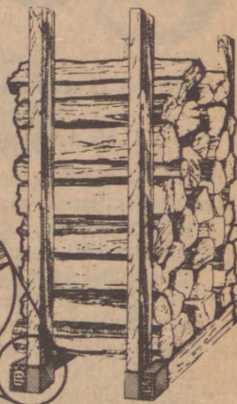
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moving the kitchen to the north wall of the downstairs space, creating an air-lock entryway, and rebuilding an existing chimney and hearth to make a more efficient fireplace. Their effects are significant, reducing the annual energy load by 8.5 MMBtu, a savings of just over \$100 a year.

The cost of the energy features of the retrofit has been calculated at \$6400. The energy savings to date equal \$2947.94. At the current rate of savings, the remaining \$3400 should be recouped in four years or less. Investment benefits aside, it is pleasing that the thermal comfort has improved noticeably over the years as each successive improvement has been made. Indeed, no amount of real or calculated savings could warm up a cold house. □

Vinton Lawrence is an alternative energy designer who does consulting work for Sunstone Design. He lives in Hopewell, New Jersey. Photos are by Michael Slack



The old fieldstone wall and a new solar retrofit combine to evoke a rustic feeling and modern efficiency in this sunspace-greenhouse.

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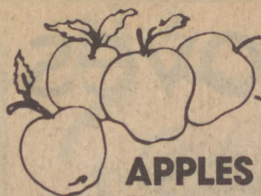
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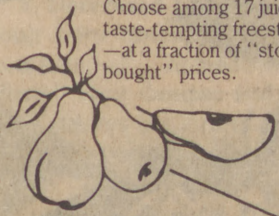
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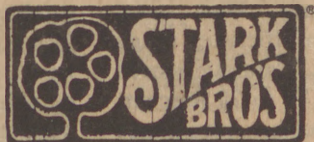
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Catalytic Wood Stoves

An answer to wood heat's burning questions?

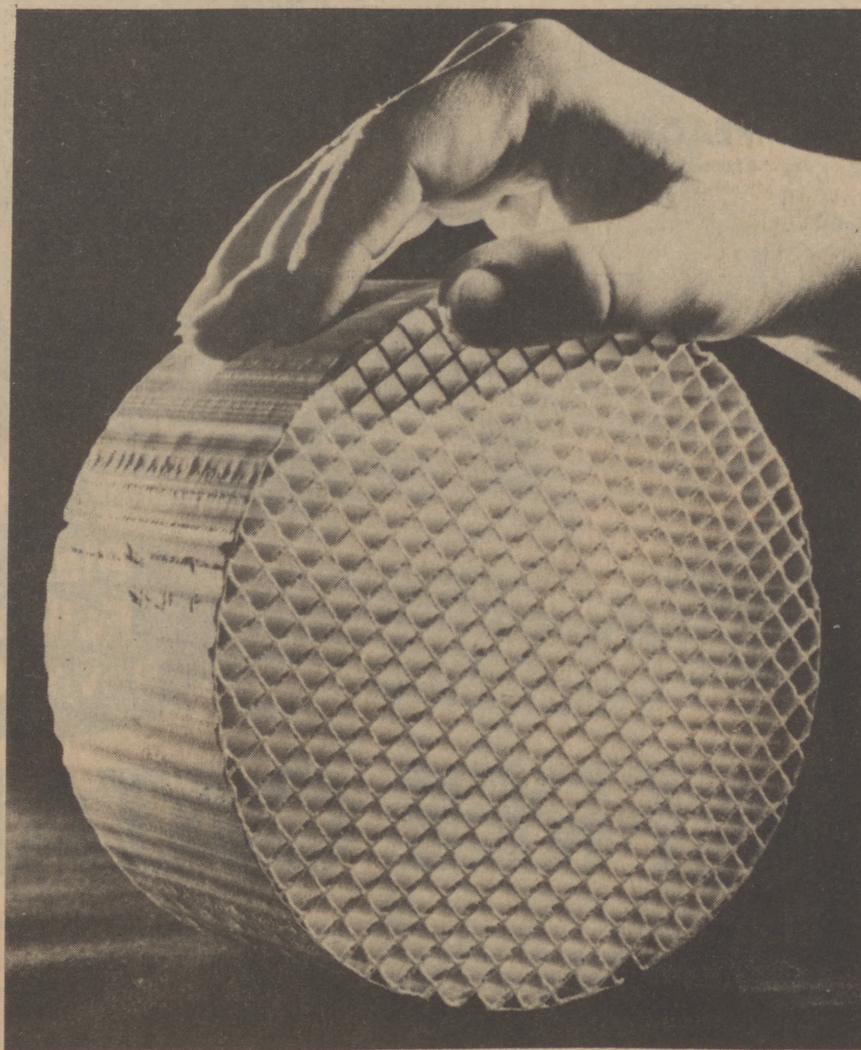
In the last decade, wood heat became a way of life for many homeowners anxious to trim their heating bills. The disadvantages of burning wood in a wood stove were offset by the savings and greater independence from the local utility company.

As homeowners soon found out, some manufacturers' claims for wood stove heating efficiency were exaggerated and creosote formed in the stove and chimney liner requiring chimney sweeps to visit once or twice a year at a cost of \$40 and up per visit. Finally, there is the issue of air pollutants in wood smoke.

In recent years, however, wood stoves have become more sophisticated with the development of the catalytic combustor. A combustor is made of noble metals such as platinum and paladium. These materials lower by half the temperature at which smoke will burn. Smoke must pass through the combustor, which is then ignited and "burns" the smoke, eliminating the prime elements that create creosote, resulting in more heat and less pollution.

Catalytic combustors are made in two ways: as an integral part of the stove design or as an add-on retrofit which is usually mounted in the stove pipe.

How effective are these new catalytic combustors? According to Dr. Jay Shelton, reporting in a trade journal for the wood heat industry: "Catalytic systems have the potential for long duration and clean burns when the stove is filled to capacity, damped down, and left for 8, 10 and even 15 hours until the next refueling." On creosote, he says that "reduction in creosote accumulation ... was spectacular."



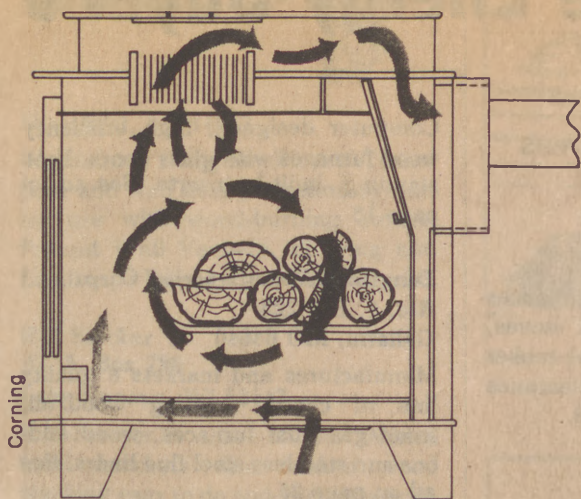
Corning

The Corning Glass Works Catalytic Combustor is a honeycombed unit made of noble metals. It lowers the temperature at which smoke will burn, reduces creosote and helps get more heat from stove wood.

The benefits of catalytic combustors include:

1. **Great Efficiency.** Most wood stoves operate in an efficiency range of 45 to 60 percent. Catalytic stoves have efficiencies of 70 to 75 percent. This translates to longer burn times and more heat, resulting in less wood consumption during the heating season.

2. **Less Pollutants.** Depending on the kind of emission, the catalytic combustors can decrease pollutants by up to 80 percent. In areas where wood heat has come under scrutiny--namely localities where legislation is pending to monitor wood stove emissions--the high efficiency, combustor-equipped stoves may be the order of the day.



A cut-a-way view of a wood stove with a catalytic combustor in flue chamber above firebox.

3. **Decreased Creosote.** To achieve long burn times, manufacturers recommended homeowners "shut down" their damper and air intakes. This starves the fire of air necessary for more complete combustion. As a result of incomplete combustion, these stoves produce a great amount of creosote, including the "tar-like" creosote that has proven difficult to remove.

The catalytic combustors, when ignited, burn off this smoke and reduce creosote accumulation up to 94 percent, as compared to other wood stoves. Also, the creosote in stoves equipped with combustors is dry and flaky, instead of gummy and tar-like. This is easier for chimney sweeps to clean.

Generally speaking, catalytic stoves average \$200 more than their other wood stoves, and the retrofitted designs average \$150 to \$200. However, catalytic combustors don't last forever. Depending on use, they may last from 5000 to 6000 hours; then a replacement combustor is recommended. As a rule of thumb, the \$50 cost of replacing the combustor itself is offset by the savings in chimney cleaning. The typical wood stove requires cleaning twice a year; a catalytic stove requires cleaning once a year.

Like any new technology, catalytic combustors require special care and operating considerations.

1. **Burn Wood Only.** Catalytics are "poisoned" by anything other than natural wood. Wood stoves are not trash disposals; burning garbage, wrapping paper, artificial logs, and treated wood are not advisable for any woodburner. In catalytic stoves, this

is even more true: burning anything other than wood will reduce the life and effectiveness of the combustor itself.

2. **Avoid Hot Fires On The Combustor Itself.** Direct flame on the combustor will cause thermal cracks, which can result in full body cracks. (Most stoves fitted with combustors have a flame shield to protect it from direct heat.)

3. **Inspect Flues Regularly.** Though combustors will decrease creosote accumulation, combustors can fail in use, especially if the combustor is clogged. Therefore, perform checks as necessary to monitor creosote accumulation. And remember, a quarter-inch or more of buildup indicates that a chimney cleaning is needed.

Future Developments

Corning Glass Works, initial developers of the catalytic combustor, has recently developed a combustor with a life expectancy of 12,000 hours of use--double the life expectancy of normal combustors.

Applied Ceramics, another manufacturer of combustors, has recently announced the first coal catalytic combustor.

There is no question that catalytic combustors are here to stay. As wood heat safety, chimney fires, and wood stove pollutants continue to make the news, the wood heat industry continues to develop new technology to combat these old problems. □

George Beahm writes wood energy articles for FARMSTEAD. He freelances in Hampton, Virginia.

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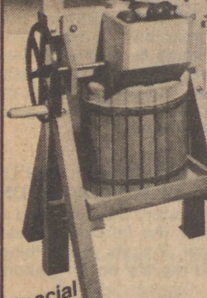
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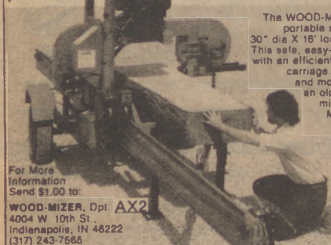
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Full line of solid fuel appliances including wood stoves, coal stoves, wood/coal boilers, wood/coal cooker oven and rear wall, zero-clearance fireplaces. See ad on page 39.

Snorkel Stove Co.

3150 Elliot Ave.

Seattle, WA 98121

Wood-burning stoves to heat water in hot tubs. Tubs are also sold. See ad on page 34.

Vogelzang Corp.

415 W. 21st

Holland, MI 49423

All cast iron, airtight barrel stove kits. Complete line of cast iron wood and coal stoves, fireplace accessories and fireplace tool sets. See ad on page 11.

Webster Stove

3112 LaSalle

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Five highly decorative and efficient catalytic and non-catalytic models. Available in decorator colors with a choice of nickel or solid brass trim. See ad on page 52.

Woodcutters Manufacturing, Inc.

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Blaze King Catalytics, exhibit high efficiency with long and extremely lean burns. See ad on Cover 4.

Wood-Burning Furnaces

HAHSA Co.

Box 112

Falls, PA 18615

The HAHSA is both a wood-burning furnace and a heat storage system; located outside away from your home. It safely supplies home heat and domestic hot water. See ad on page 42.

Juca Inc.

1400 Lake St.

LaPorte, IN 46350

Computer designed, high efficiency wood furnaces with glass doors. Free standing, built-in inserts. See ad on page 15.

Longwood Manufacturing Corp.

Rte. 1, Box 223

Gallatin, MO 64640

Manufactures and markets a quality line of central heating wood/oil, wood/gas dual furnaces, wood add-ons and stainless steel flue liners. See ad on page 25.

PASSAT USA, INC.

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The Wood Aire Fireplace/Furnace uses a unique heat collecting system to give you the luxury of a wood-burning fireplace. See ad on Cover 2.

Wood-Cutting Tools

General Carbide Products

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Enfield, CT 06082

Williams Superchain, The Titanium-Carbide chain saw chain. See ad on page 60.

WOOD-MIZER

4004 W. 10th St.

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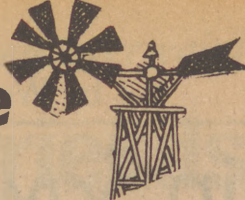
The Wood-Mizer is a one-man, portable sawmill with a 30" dia. 16' long cutting capacity. This safe, easy-to-operate mill cuts with an efficient traveling bandsaw carriage. See ad on page 20.

Miscellaneous

Crown Hill Stone, Inc.

28 East Pearl St.

Guide



Westfield, NY 14787

Woodstove Designer Blocks--Tested floor and wall heat protection system for use with wood-burning stoves. Precast Wall Veneers, Flooring and Landscape Pavers. See ad on page 25.

E-Z Stacker
Rt. 5, Box 798

Lake Geneva, WI 53147

E-Z Stacker is a set of four welded steel brackets that makes wood stacking easy to do and very practical. See ad on page 15.

Landia Inc.
450 3rd St.
Excelsior, MN 55311

Finnish Rock Sauna heaters. 4500, 6000 and 9000 Watt sizes. See ad on page 60.

Miracle Heat, Inc.
P.O. Box 553
Escanaba, MI 49829

Heat reclaimer which recovers heat from the flue of a wood stove. Heat reclaimer with a built-in catalytic combustor. See ad on page 4.

Northern Hydraulics
P.O. Box 1219
Burnsville, MN 55337

Free 104-page discount catalog filled with hydraulics, tools, pickup/trailer parts and accessories, air compressors, generators and many other products at super low prices. See ad on page 39.

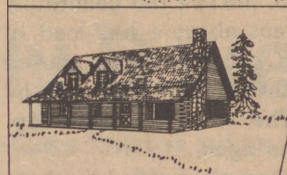
SOTZ Inc.
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Farm wood heaters for under \$50.00. Metalbestos chimney system. Heavy-duty garden carts. World famous Monster Maul wood splitter. Many farm, home, and garden products available. See ads on page 22 and page 47.

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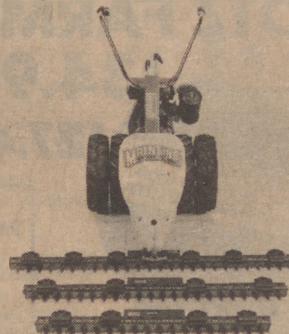
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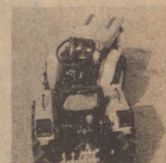
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The Stubborn Chain Saw

For me, cutting firewood is a fill-in chore. During those sporadic summer days when nothing else needs attention, I take advantage of the cool mornings to cut and haul my winter's fuel. Last year, though, I was starting to wonder if I would ever fill my woodshed. My chain saw was doing everything but cutting wood.

With patience and a strong cranking arm, I usually got the engine started. But it ran rough, it smoked and it overheated. As soon as the chain touched a log, it would stall. When my tinkering failed to solve the problem, I sent it to the repair shop.

The mechanic drained and flushed the fuel tank. After checking the gas line, adjusting the carburetor and refilling the tank, he took my chain saw outside. It started easily and ran perfectly.

Back home, the saw ran beautifully until I had cut about a half-load of wood. Then, the trouble started again. Another round trip to the mechanic. The same problem happened all over again.

The third time, the baffled mechanic loaned me a saw to use while he tried to figure out what was wrong with mine. One log later, my borrowed chain saw began to act the same way.

The only common link between the two saws was the fuel. Since I was sure that it was clean fuel, the trouble had to be caused by an incorrect gas-to-oil ratio. I was always very careful about mixing the right proportions, so something was happening afterwards.


I discovered that, even when stored out of the sun, the gasoline was evaporating on the hot summer days.

The result was an oil-rich mixture. The problem was compounded by the slow rate at which I used the fuel. The mystery of the balky chain saw was solved.

For warm weather use, I usually blend only one quart of fuel instead of the usual one or two gallons. At the standard ratio of 16:1, that's 1/4 cup (two ounces) of oil added to four cups (32 ounces) of gasoline. (I use an old measuring cup to avoid mistakes.) With my saw, I can cut a pickup load of wood with this amount.

I seldom have leftover fuel in my can or saw. But when I do and if it sits for more than a few days I dump out the small amount and mix a fresh batch. □

Wayne Fugate cuts his firewood in Rainelle, West Virginia.



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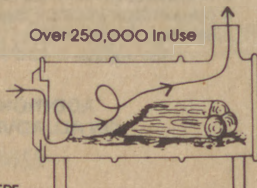
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Cast Iron Bottom	\$34.96	\$29.96
Top Kit Fits Both	\$20.93	\$17.97

"I had been overweight for 10 years, so..."

My friends could hardly believe their eyes when they saw me lose 56 lbs. in only 6 weeks!"

Amazing Japanese weight-loss tablet wins U.S. Patent for its proven ability to flush calories out of your body.

Monica Lee was a "fad-diet junky." She tried everything she could find—the diets, the clinics, the exercise programs. Some of them even seemed to work—but never for long.

"Oh sure, I lost a few pounds here and there, but I always gained them right back. All the programs I tried were so unpleasant or took so much willpower it was impossible to stick with them..."

But then Monica had an amazing stroke of luck that was to change her life, and appearance, forever. She explains, "I was reading my newspaper, and it told about a miracle new diet product from Japan called Mannan-Trim. I thought to myself, 'well, it probably won't work,' but I tried it anyway. Much to my surprise the pounds began to drop away the very first day. I had been overweight for 10 years, so my friends could hardly believe their eyes when they saw me lose 56 pounds in only 6 weeks!" (By the way, that is an average of 1.33 pounds a day!!!)

What is this incredible product? It's a natural extract from the Konjac root, which grows in Japan. It contains no natural whatsoever and was developed by members of the JMA (Japanese Medical Association). Based upon scientific data demonstrating its effectiveness, it was awarded a patent by the United States Patent Authorities!

The Mannan-Trim Program includes a special diet plan that is protected by U.S. copyright law. The way it works is simple. Reduction of body fat and weight depends on reduced calorie intake. Mannan-Trim helps you absorb less calories in two ways. **First**, it gives you a natural feeling of fullness. You eat less because you aren't as hungry. But **second**, this remarkable product surrounds much of the fat, protein and carbohydrate calories you do eat, and then flushes them right out of your body.

How much will you lose? Quite frankly, we don't know. The U.S. Patent discloses the results of a study performed on overweight men and women. With no dietary changes, the average weight-loss for women over a fifteen-week period was 37.5 lbs., and for men 42.5 lbs. The least amount of weight-loss for anyone tested was 33 lbs. Monica Lee followed our entire Mannan-Trim program, and she lost weight even faster. Of course, Monica is one of the most successful people to experience the miraculous results of the Mannan-Trim weight-loss program.

Testimonials do not necessarily show the results you will achieve by using the product. The amount you will lose depends on how much weight you need to lose, and on your metabolism. The Mannan-Trim plan is an extremely fast way to lose weight. But naturally the incredible results described above require that you follow the entire Mannan-Trim plan.

And just imagine what those results can be. Monica went from 168 lbs. down to a trim 112 lbs. She went from a size 16 to a perfect size 7. And she did it all in just six weeks! Just think how you would look if you could carve away up to:

- 6 inches or more off your hips!
- 3 inches or more off your thighs!
- 4 inches or more off your buttocks!
- 8 inches or more off your waistline!

Just think how you would look in your new clothes!

Well, why not? Now, at last, the body of your dreams can be yours. Now, at last, you can do it. You really can. And best of all, there is no need to suffer while you lose. There is no need to exercise.

It's easy to make your dreams come true. With the Mannan-Trim plan you take two tablets about thirty minutes before each meal. Not only is your hunger satisfied, so you eat less, but you have set in motion the powerful process by which a portion of the calories and carbohydrates you do eat are surrounded by Mannan-Trim and flushed from your body. As your calorie intake diminishes, your body:



Monica Lee is a dramatic proof of the awesome effectiveness of this amazing Japanese product. Monica lost 56 pounds in only 6 weeks. Her whole life has changed, she is actively pursuing a modeling career. Now at last you, too, can fit into this picture and experience the most dramatic noticeable weight-loss of your life.



"BURNS OFF BODY FAT HOUR-BY-HOUR"

Monica has achieved nothing less than a new life. Not only does she look good, but she feels good. She has new energy and confidence. She looks terrific in her new clothes. Now, just like Monica, you too can:

- Burn away a maximum amount of fat in record time.
- Look fantastic in clothes you only dreamed of wearing before.
- Improve your self-image and self-confidence.
- Feel more energetic than ever as you drastically transform your body.
- Put an end to gnawing hunger pangs.

In fact, as proof that everything we say is true, we offer a very simple guarantee—one we could not dare to offer unless the Mannan-Trim program was everything we say it is. Simply stated, the product is so effective it is actually being sold with an iron-clad 100% MONEY BACK GUARANTEE. Here is the way it works: If you place your order now, and then follow the simple instructions for a trial period of 30 days, you must be completely satisfied with the amount of body fat you have burned off or you are entitled to an immediate refund of your entire purchase price! There are no exceptions. This guarantee is iron-clad regardless of your age or your current weight level. All that is required is that you follow the simple instructions and give the product an honest chance to work for the full trial period.

Before starting any weight loss program, you should consult your physician to be sure you are in normal health.

Because of enthusiastic public demand for this new product, and the fact that is not yet generally available in retail stores in the United States, we have stocked a large supply. We can therefore guarantee immediate delivery, by return mail, of all orders within ten days of the publication of this paper. After that, orders will be filled on a "first-come, first-served" basis as long as supplies last.

So act today...Don't wait. You have nothing to lose but your excess pounds!

IMPORTANT NOTICE

As your weight begins to plummet, you should use your good judgment and not let yourself become too thin. Normal directions suggest taking two tablets before each principal meal. However, if you lose weight too rapidly (faster than Monica), it is recommended you limit the tablets to just one before each of these meals.

Mannan-Trim used as instructed is a powerful new fat fighting weapon. The price for 120 tablets (30 day supply) is \$19.95 plus \$2.00 postage and handling (total \$21.95), or 240 tablets (60 day supply) for \$39.90 plus \$2.00 postage and handling (total \$41.90).

If you are not satisfied after using Mannan-Trim as instructed for 30 days, you may return the empty product container and receive an immediate refund of your entire purchase price (minus postage and handling, of course).

It is easy to order. All you have to do is write your name, address and the words "MANNAN-TRIM" on a piece of paper and send it with your payment to:

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Newport Beach, CA 92663**

Or, if you prefer to use your MasterCard or Visa, you can order by phone by simply dialing our toll-free number (800) 854-6917 (California residents call (714) 631-4170), and asking for our new Anti-fat weapon. Either way, your order will be sent promptly by first class mail. Thank you.

MANNAN-TRIM IS ALSO AVAILABLE AT THESE DIET STORE LOCATIONS:

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(Arlington Plaza) |
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Burbank, CA
(1 block East of Buena Vista at Victory Center Shopping Center) | TARZANA
19207 Ventura Blvd.
Tarzana, CA
(Corner of Tampa Blvd.) |
| EL TORO
23774 Mercury Rd.
El Toro, CA
(At the Wildwest Shopping Center) | UPLAND
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Upland, CA
(Corner of Arrow Hwy in Central Village) |
| GRANADA HILLS
16205 Devonshire St.
Granada Hills, CA
(Corner of Devonshire St. & Woodley) | VAN NUYS
7215 Van Nuys Blvd.
(Corner of Sherman Way) |
| MANHATTAN BEACH
350 North Sepulveda Blvd.
Manhattan Beach, CA
(The Goat Hill Shopping Center) | WILSHIRE CENTER
520 S. Occidental Blvd.
Los Angeles, CA
(6th & Hoover at LaFayette Park) |
| ORANGE
1659 East Lincoln
Orange, CA
(Brickyard Shopping Center) | LAS VEGAS, NEVADA
3661 So. Maryland Pkwy.
Las Vegas, NV
(At Maryland Square next to Al Phillips Cleaners) |

The Romance of Antique Apples

by Barbara McEwan

The apple is one of mankind's first fruits. Native to the Caucasus mountains of western Asia, the apple was taken far afield in ancient times. Charred apple remains have been found in the prehistoric lake dwellings of Europe.

Apples are mentioned in the earliest Chinese writings. The Romans knew at least 22 varieties. They carried apples to much of Europe and as far as England. By the time America was settled, there were hundreds of varieties throughout Europe. Europeans brought the apple to America.

John Chapman (1774 to 1845), better known as Johnny Appleseed, became the American symbol of a long line of now forgotten people who propagated this tasty fruit. Long before Chapman's birth, large apple orchards in America were being planted. For example, Governor John Endicott of Plymouth Colony (1649) exchanged 500 three-year-old trees for 200 acres of land.

Apples went back to the mother country, too. The American Yellow Newton (also known as the Albemarle Pippin) was sent from Virginia to

England by 1759. Apples were exported to the West Indies from New England around that time. Apples were taken West by pioneer families either as seed or as cuttings inserted into potatoes to keep them alive. The first plantings in California are dated around 1853.

What are the birthplaces of the antique apple? Several came from Russia. There is Red Astrachan (early 1800s), Yellow Transparent, Duchess of Oldenburg (early 1800s), Alexander (1817). Germany is represented by Gravenstein (early 1800s) and

Beitigheimer (1800). Granny Smith comes from Australia (1868) and McIntosh and probably Snow were discovered in Canada. But these are young 'uns.

How about Sops of Wine which dates to Medieval England or Calville Blanc D'Hiver favored by King Louis XIII in the early 1600s? France also contributed Lady which dates to 1600 and Summer Rambo (1500s). The latter was one of the first grown in America and was Johnny Appleseed's favorite.

There are many American entries. I will mention only the better known. Connecticut contributed Pound Sweet, Twenty Ounce (1844) and Sheepnose (1780 or early 1800s). Pennsylvania: York Imperial and Smokehouse (1837). New Jersey: Maiden's Blush (1827) and probably Winesap (1817). Rhode Island: Rhode Island Greening (early 1700s). Massachusetts: Westfield-Seek-No-Further, Mother (early 1800s), Baldwin (1740), Toleman Sweet and Roxbury Russett which dates to 1649 and was probably the first good apple of American origin. New York gave us Chenango (1850), Northern Spy (1800), Jonathan (early 1800s), Yellow Newtown, Wagener (1791) and Fall Pippin (1790).

Southward, the number becomes smaller because this is not prime apple country. Grimes Golden (before 1800), Yates and Ben Davis are some southern varieties. The Midwest has few great finds, probably because settlers from the East had formed cherished opinions concerning favorites and were less eager to experiment with newcomers. Wisconsin contributed Wolf River (mid-1800s); Iowa, Red Delicious (1881); Indiana, Winter Banana (1876); Minnesota, Wealthy (1860) and Ohio, Rome Beauty (1848).

There are historic monuments to at least two antique apples. The Baldwin is honored by a tall stone pillar topped with a big stone apple at its site of discovery in Wilmington, Massachusetts. A granite monument marks the spot where in 1796, John McIntosh planted a group of young trees he found near his home in Ontario. By 1830 all the young trees were dead except one. It flourished next to McIntosh's house, until it was badly



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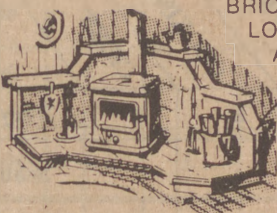
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Old-Time Apple Favorites

VARIETY	ZONE	RIPEN	DESSERT	COOKING	CIDER	CHARACTERISTICS
ARKANSAS BLACK	5-8	Late	x	x	x	Very dark red; good keeper.
BALDWIN	4-8	Late	x	x		Scab resistant; good keeper.
BLUE PERMAIN	4-7	Mid	x			Bluish bloom; doesn't keep well. Flesh pale yellow, dry and sweet.
COX'S ORANGE PIPPIN	5-7	Mid	x			Good keeper; flesh cream, firm, fine-textured, juicy, a little sweet and slightly tart.
DUCHESS OF OLDENBURG	3-6	Early		x	x	Ripens over several weeks; scab resistant; dual-purpose; flesh pale cream, juicy.
FALL PIPPIN	5-8	Mid	x	x		Very hardy; ripens over one month period; good keeper.
GOLDEN RUSSETT	4-7	Late	x	x		Good keeper.
GRANNY SMITH	7-9	Late	x	x		Good keeper; bright green skin; flesh greenish white, juicy, firm.
GRAVENSTEIN	5-8	Mid	x	x	x	Pick several times; bruises easily; flesh pale yellow, crisp, coarse-textured, juicy.
GRIMES GOLDEN	7-9	Late	x	x		Quite disease resistant; doesn't keep well; flesh creamy white.
JONATHAN	5-7	Late	x	x		Scab resistant; subject to fire blight, mildew, rust; good keeper. Flesh white.
LADY	4-7	Late	x			Traditional holiday decoration.
MAIDEN'S BLUSH	5-7	Late	x	x		Good for drying.
MCINTOSH	4-6	Mid	x	x	x	Needs constant spraying for scab free fruit; good keeper.

VARIETY	ZONE	RIPEN	DESSERT	COOKING	CIDER	CHARACTERISTICS
NORTHERN SPY	4-8	Late	x	x	x	Susceptible to scab; stored fruit susceptible to blue mold. Flesh creamy white.
POUND SWEET	5-7	Mid	x	x		Plant in protected area as fruit may drop due to wind.
RED ASTRACHAN	4-7	Early	x	x		Use for cooking before entirely ripe; pick several times; flesh greenish white.
RHODE ISLAND GREENING	5-7	Late	x	x		Good keeper; susceptible to canker and fireblight; scab resistant; flesh creamy white.
ROME BEAUTY	5-8	Late		x		Good keeper; flesh creamy white, coarse-textured; skin tough.
ROXBURY RUSSET	4-8	Late	x	x	x	Good keeper.
SHEEPNOSE	4-8	Late	x	x		Deep black red when ripe; ripens unevenly; hangs well on tree.
SMOKEHOUSE	5-8	Late	x			Good keeper; susceptible to scab.
SNOW(FAMEUSE)	3-6	Mid	x	x	x	Good keeper; susceptible to scab; flesh very white, soft, juicy, sweet.
SOPS OF WINE	5-7	Early	x	x	x	Dark crimson skin.
SPITZENBURG	5-8	Late	x	x		Usually a good keeper. Susceptible to scab, canker; a favorite of Thomas Jefferson.
SUMMER RAMBO	5-7	Early	x	x		Resistant to disease.
TOLMAN SWEET	3-6	Late		x		Excellent for unsweetened sauce; bruises easily; good keeper.
TWENTY OUNCE	4-7	Early		x		Good keeper; unusually large fruit; susceptible to sun scab, canker.
WAGENER	5-7	Late	x	x		Very productive; creamy white flesh.
WEALTHY	3-6	Late	x	x	x	Good keeper; pick several times; scab resistant; flesh white, soft, coarse, juicy.
WESTFIELD-SEEK-NO-FURTHER	4-6	Late	x			Average to good keeper.
WINESAP	6-8	Late	x	x	x	Stayman winesap most frequently sold today.
WINTER BANANA	5-8	Late	x			Good keeper; traditional for winter baskets; bruises easily; flesh creamy white, soft.
WOLF RIVER	3-6	Late	x	x		Good keeper but flavor better when fresh; giant fruits; flesh white, green-tinged; tart.
YATES	6-9	Late	x			Good keeper.
YELLOW NEWTOWN	5-8	Late	x	x	x	Good keeper.
YELLOW TRANSPARENT	4-8	Early	x	x		Pick several times; scab resistant.
YORK IMPERIAL	5-8	Late	x	x		Good keeper.

damaged when the house burned in 1893. One side, however, continued to bear fruit until the tree died in 1908 after 112 years of producing apples of merit. McIntosh shared his good fortune with friends and neighbors, giving them cuttings. This one tree has been the source of the McIntosh we know today.

Some antique apples have faded in popularity because of the introduction of new varieties which have proven better in some way. Recently, breeders have developed new apples which have built-in disease and insect resistance, two factors which have always plagued apple growers.

The Ben Davis was once to the South what Baldwin was to the North. Originating in the mid to late 1700s, it was brought to the Northeast in the early 1800s, but competition was stiff. Meanwhile the South was introduced to the Gravenstein, Winesap, Granny Smith and others. Despite being a heavy bearer and a southern staple the hard, tough-skinned fruits of Ben Davis eventually turned it into a has-been.

Today most buyers might frown on the "blemished" skins found on such oldies as the Roxbury Russet and Westfield-Seek-No-Further. They might dislike the tough skin of the Ben Davis. Some people are even turned off by the green skin of a Granny Smith and ignore its excellent taste and keeping qualities.

How many varieties of apples are there? During the past 2000 years, tens of thousands of seedling apples have been propagated and named as varieties, 7000 in the U.S. alone.

How can there be so many? The answer lies in the fact that apple seed does not breed true to the mother tree. Thus, every bearing tree is a source of endless new varieties, most of which are worthless. But every once in a while, a chance seedling will produce a marvel, one that surpasses the mother tree. If you wish to have a variety which is true to the parent tree, you must use grafted stock.

Unfortunately, within the last generation, the apple market has been dominated by only a few apple varieties. Commercial standards require that an apple ship well, store well and please everyone's eye at the supermarket. The consumer's choice has been reduced to red and yellow Delicious, McIntosh and sometimes Cortland and Granny Smith. Possibly many people are not even aware that there are other kinds of apples. Because commercial varieties are seldom picked at their peak of flavor, you miss out on real apple taste. Growing some of the old-time favorites will enrich the home orchard and your taste buds as well.

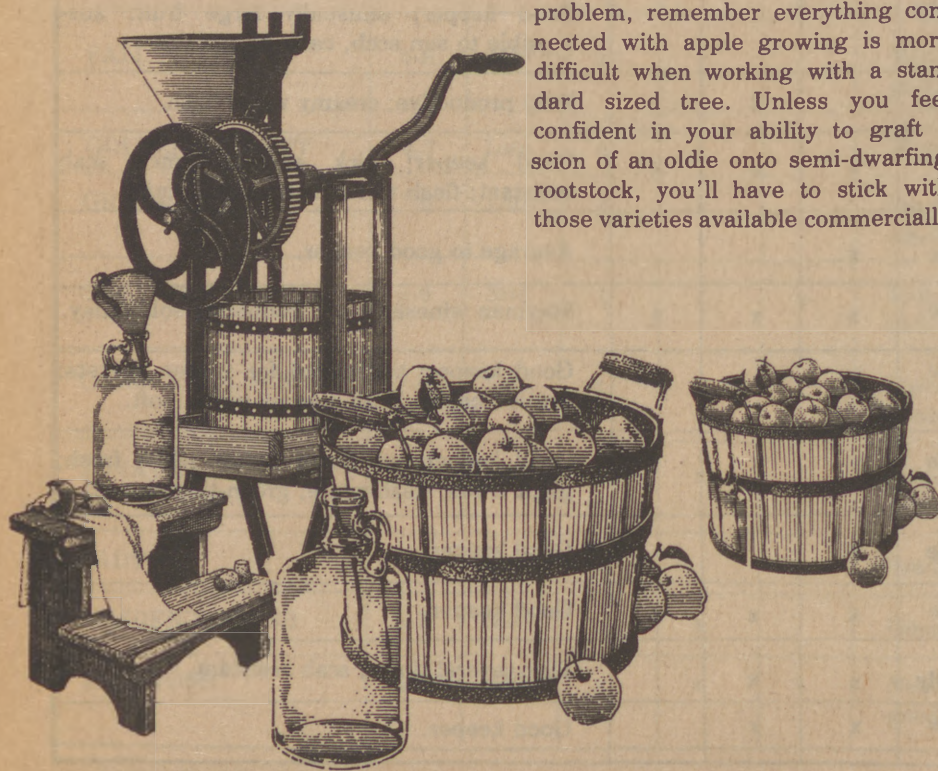
Which antique apples are best for you? There are three prime factors to consider. The first is the zone for your area. This will automatically exclude some varieties. The second consideration is tree size. Even if space is no problem, remember everything connected with apple growing is more difficult when working with a standard sized tree. Unless you feel confident in your ability to graft a scion of an oldie onto semi-dwarfing rootstock, you'll have to stick with those varieties available commercially

where this service has been granted the customer. The third is disease resistance.

It's sensible to stick with varieties which are resistant at least to apple scab which is one of the most universally destructive diseases of this fruit. You may want to experiment with an antique just for its own sake, however. I have noted disease-resistant features in the "Old-Time Apple Favorites" chart under the heading "Characteristics."

As a grower of antique apples you may want to join the North American Fruit Explorers (c/o Robert Kurle, Secretary, 10 S. 55 Madison Street, Hinsdale, Illinois 60521). This group promotes the old traditional fruit and nut favorites. Membership includes help in finding old varieties and people who are willing to exchange their treasures. They put out a quarterly journal called *The Pomona*. Members are interested in developing apples which are resistant to both diseases and insects. □

Barbara McEwan writes about apple trees and other FARMSTEAD topics in Goode, Virginia.



ANTIQUE APPLE SOURCES

Bountiful Ridge Nurseries, Inc.
Princess Anne, Maryland 21853

Grand Isle Nursery
Ferry Road, Rt. 134
South Hero, Vermont 05486

Lawson's Nursery
Rt. 1, Box 294
Gall Ground, Georgia 30107

Henry Leuthardt Nurseries, Inc.
Montauk Highway, Box 666
East Moriches, Long Island, New York 11940

J.E. Miller Nurseries, Inc.
Canandaigua, New York 14424

Southmeadow Fruit Gardens
Lakeside, Michigan 49116

Herman L. Suter
3220 Silverado Trail, North
St. Helena, California 94574

St. Lawrence Nurseries
R.D. 2
Potsdam, New York 13676

California Millionaire Wants To Share The Wealth

You think times are tough and you've got problems?

Well, I remember when a bank turned me down for a \$200 loan. Now I lend money to the bank — Certificates of Deposit at \$100,000 a crack.

I remember the day a car dealer got a little nervous because I was a couple of months behind in my payments — and repossessed my car. Now I own a Rolls Royce. I paid for it in full — with cash.

I remember the day my wife phoned me, crying, because the landlord had shown up at the house, demanding his rent — and we didn't have the money to pay it.

Now we own five homes. Two are on the oceanfront in California (I use one as my office). One is a lakefront "cabin" in Washington (that's where we spend the whole summer — loafing, fishing, swimming, and sailing). One is a condominium on a sunny beach in Mexico. And one is snuggled right on the best beach of the best island in Hawaii — Maui.

Right now I could sell all this property, pay off the mortgages, and — without touching any of my other investments — walk away with over \$750,000 in cash. But I don't want to sell, because I don't think of my homes as "investments." I've got other real estate — and stocks, bonds, and cash in the bank — for that.

I remember when I lost my job. Because I was head over heels in debt, my lawyer told me the only thing I could do was declare bankruptcy. He was wrong. I paid off every dime.

Now, I have a million dollar line of credit; but I still don't have a job. Instead, I get up every weekday morning and decide whether I want to go to work or not. Sometimes I do — for 5 or 6 hours. But about half the time, I decide to read, go for a walk, sail my boat, swim, or ride my bike.

I know what it's like to be broke. And I know what it's like to have everything you want. And I know that you — like me — can *decide* which one it's going to be. It's really as easy as that. That's why I call it "The Lazy Man's Way to Riches."

So I'm going to ask you to send me something I don't need: money. Ten dollars to be exact. Why? Because I want you to pay attention. And I figure that if you've got \$10 invested, you'll look over what I send you and decide whether to send it back... or keep it. And I don't *want* you to keep it unless you agree that it's worth at least a hundred times what you invested.

Is the material "worth" \$10? No — if you think of it as paper and ink. But that's not what I'm selling.

PROOF!

Don't take my word for it. These are excerpts from articles in newspapers and magazines:

Time:

He only works half the year in his stunning office on California's Sunset Beach, and even when he's there he puts in short hours... In other words, Joe Karbo... is the prototype for... "The Lazy Man's Way to Riches."

Money:

Joe does more than dwell on personal problems; he solves them...

Which is a nice change: Karbo almost went bankrupt back in '62...

Boston Herald-American:

The book has drawn hundreds of letters from persons who have profited by it...

Los Angeles Herald-Examiner:

"Going broke was the best thing that ever happened to me," explains Joe Karbo who went from one business trouble to a million-dollar business fortune...

Forbes:

After bouncing around show biz, advertising, and real estate, he made his fortune... \$250,000.

Money Making Opportunities:

Maybe Joe Karbo has the secret. Don't you think you owe it to yourself to find out what it is all about?... I just finished it — and I'm off on a vacation myself. Get the idea?

Long Beach Independent:

He's programmed the path to riches for the lazy man.

The Kansas City Star:

He prints statements like "Most people are too busy earning a living to make any money." He should have added that too many people these days are too busy earning a living to do any living.

What I am selling is information. *More* information than I give when I'm paid \$1000 as a guest speaker. *More* information than I give in a one-hour consultation for \$300.

But you're really not risking *anything*. Because first, I don't want you to send me any money — at least none that I can use. Instead, as a token of your sincerity, send in your check or money order and *postdate* it for *six weeks* from today. You see, it's not really money because it's not negotiable — besides, I won't even touch it for six weeks anyway.

In this way you'll have plenty of time to receive my material, look it over, try it out and *prove* to yourself that everything I am telling you is true.

I know what you're thinking: "He got rich telling people how to get rich." The truth is — and this is very important — the year before I shared "The Lazy Man's Way to Riches," my net income was \$216,646. And what I'll send you tells just how I made that kind of money... working "part time"... a few hours a day... about 8 months out of the year.

It doesn't require "education." I'm a high school graduate.

It doesn't require "capital." Remember I was up to my neck in debt when I started.

It doesn't require "luck." I've had more than my share. But I'm not promising you that you'll make as much money as I have. And you may do better. I personally know one man who used these principles, worked hard, and made 11 million dollars in 8 years. But money isn't everything.

It doesn't require "talent." Just enough brains to know what to look for. And I'll tell you that.

It doesn't require "youth." One woman I worked with is over 70. She's travelled the world over, making all the money she needs, doing only what I taught her.

It doesn't require "experience." A widow in Chicago has been averaging \$25,000 a year for the past 5 years, using my methods.

What does it require? Belief. Enough to take a chance. Enough to absorb what I'll send you. Enough to put the principles into *action*. If you do just that — nothing more, nothing less — the results will be hard to believe. Remember — I guarantee it.

You don't have to give up your job. But you may soon be making so much money that you'll be able to. Once again — I guarantee it.

I know you're skeptical. Well, here are some comments from other people. (Initials have been used to protect the writer's privacy. The originals are in my files.) I'm sure that, like you, these people didn't believe me either when they clipped the coupon. Guess they figured that, since I wasn't going to deposit their checks for six weeks, they had nothing to lose.

They were right.

And here's what they gained:

'Made \$50,000 just fooling around'

"In February you sent me (for ten bucks) your Lazy Man's Way to Riches. Since then I have made approximately 50 grand (\$50,000) just fooling around on the basis of your advice. You see, I really am lazy — otherwise I could have made 50 million! Thank you!"
R. McK., Atlanta, GA

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"Since I've got your (Lazy Man's Way to Riches) in July. I've started 4 companies... there's no stopping me and I'm so high I need chains to keep me on the ground."

M.T., Portland, OR

\$260,000 in eleven months

"Two years ago, I mailed you ten dollars in sheer desperation for a better life... One year ago, just out

of the blue sky, a man called and offered me a partnership... I grossed over \$260,000 cash business in eleven months. You are a God sent miracle to me."

B.F., Pascagoula, MS

\$7,000 in five days

"Last Monday I used what I learned on page 83 to make \$7,000. It took me all week to do it, but that's not bad for five days' work."

M.D., Topeka, KS

What I'm saying is probably contrary to what you've heard from your friends, your family, your teachers, and maybe everyone else you know.

I can only ask you one question.

How many of them are millionaires?

So it's up to you.

Six weeks from today, you can be nothing more than a little older — or you can be on your way to getting rich. You decide.

The wisest man I ever knew told me something I never forgot: "Most people are too busy earning a living to make any money."

Don't take as long as I did to find out he was right.

I'll prove it to you, if you'll send in the coupon now. I'm not asking you to "believe" me. Just try it. If I'm wrong, all you've lost is a couple of minutes and a postage stamp. But what if I'm right?

Some have called it a Miracle. Some have called it 'Magic.' You'll call it "The Secret of the Ages."

As for me, I thank God that before he died Millionaire Joe Karbo left, for all to share, the secret of "The Lazy Man's Way to Riches." The above story, which is in his own words, is his gift to you.

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Mona holds daughter Margaret and a handsome head of Michili.



Mona and John Snell add another dimension to their vegetable growing business-- Michili, Bok Choy, snow peas and Daikon radish.

A New Market for Chinese Vegetables

family farm that his grandfather purchased over 60 years ago.

When the young couple opted to join John's grandfather and father in their apple and vegetable growing business, they soon added a new dimension to the operation--the growing of Oriental vegetables, especially varieties of Chinese cabbage. Since John is occupied much of the time with the orchard and maintaining farm equipment, the growing and marketing of Oriental vegetables has been left largely to Mona.

Mona was first introduced to a variety of Chinese, or celery, cabbage when her older sister traveled to the Philippines and brought back a variety called PE-TSAI.

"We didn't know what to do with it, so we boiled it. New Englanders have a tendency to boil everything," Mona laughed.

The decision to grow varieties of Chinese cabbage and other Oriental vegetables such as snow peas and the large white radish named Daikon, was made after the Snell's delivered vegetables to the Portland Farmers' Market. Tastes are changing and many people are realizing the great flavor and nutrition of so-called Chinese vegetables.

The Snells concentrate on MICHILI, which is the most popular Chinese cabbage grown in North America, and Bok Choy (Pak Choi). The latter, which somewhat resembles Swiss chard, seems to produce better heads and is less likely to bolt in hot weather. The Snells purchase their seeds from several companies, including Johnny's Selected Seeds of Albion, Maine, and Stokes of Buffalo, New York. Mona especially recommends a new hybrid with the exotic name, JADE PAGODA, which is sold by the Joseph Harris Company of Rochester, New York.

Each year the Snells devote more space to varieties of Chinese cabbage, and each year the demand increases. Some of their produce is sold to one of several popular Chinese restaurants in the greater Portland Area.

"Chinese cabbage," says Mona, "is very versatile and so much more hardy than lettuce. It's delicious as a salad and great in a stir-fry meal."

The Snells also supplement their income by purchasing bulk chicken manure from a large poultry operator to sell locally. Consequently, they have the high nitrogen content organic fertilizer that Chinese cabbage demands, along with soil that is

When John and Mona Snell were married, they made a decision that few young people would make today--to live on a farm and grow vegetables and apples for the market. Both are graduates from the University of Maine in Orono is a university noted for its excellent agricultural program. Neither one majored in agriculture.

John, a journalism major, laughs and says, "If I had majored in agriculture, I would probably have become a journalist." Mona majored in English and taught in a high school for seven years before her daughter Margaret was born. Both, however, shared a mutual love for the land. Mona was active for many years in 4-H Club work. John grew up on the

maintained at a pH level of 7.0, the neutral point between acidity and alkalinity. Whenever the pH factor in the area allotted to Chinese cabbage falls much below 7.0, the Snells add lime to the manure to neutralize the acidity. Although Chinese cabbage is said to do best on light loamy soil that receives plenty of moisture, the Snells harvest bountiful yields on mostly clay soil.

What major problem does Mona have growing Chinese cabbage?

"Slugs!" she says without hesitation. "In wet weather we have to cope with slugs."

Last December John and Mona attended the New England Vegetable Growers' Convention in Boxboro, Massachusetts, where a Korean spoke on raising Oriental vegetables.

"A lot of people were seeing Chinese cabbage for the first time, and the speaker brought in a cabbage in a pot. The plant was still growing, and everyone could see how hardy it was. There were also a few slugs on the leaves," Mona added, "and they were equally hardy."

Molluscicides can be used effectively against slugs, but Mona prefers not to use any form of pesticide. "Molluscicides are too toxic for our purposes, especially with kids around," she explains.

When the small cabbage plants are between three to five inches tall, Mona begins the task she likes least—thinning the seedlings so that

the remaining plants will head. "It's the tedium I resent," she explains.

Those who grow a short row for their own use, however, can use the tender young plants in salads. They are delicious!

In addition to Oriental cabbages, the Snells also grow snow peas for the local market. Several local Chinese restaurant owners are urging Mona and John to harvest the tender pea tendrils.

"They are supposed to be worth a lot because they don't weigh anything, but we haven't gotten that project going yet. I am also looking into the possibilities of growing Oriental melons."

Although the Snells did not plant any daikons this year because of problems with root maggots, they have grown them for market in previous years and plan to plant some next season.

At the moment, the total gross sales from Oriental vegetables are small when compared to the gross sales of the more common vegetables grown on the Snell farm. But Mona and John intend to expand this specialized area, much to the delight of their customers who have developed a taste for the delicate flavors of Chinese vegetables. For the Snells it is an exciting new adventure. □

Jack Barnes is a free-lance writer and photographer. He lives on Brookfield Farm in Hiram, Maine.



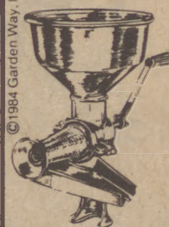
Chinese cabbage prospers in fertile soil with a neutral pH. It grows well in cool weather.



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You can use leaves around your home or farmstead in unimagined ways. Even high-rise apartment dwellers can reap the rich benefits of leaves.

Collect your leaves in the fall, since it is best not to allow leaves to overwinter on your lawn. Layers of leaves can harbor pests, rodents or plant diseases. If you own a sweeper-shredder or a power lawn mower equipped with a grass catcher, some of the harder work of leaf collection can be alleviated. If not, you will have to rake. To eliminate bagging all those leaves, lay an old bed sheet or

other drop cloth on a cleared area and rake the leaves onto it. Then bring the four corners together, and carry them to their destination. If they must be bagged for later use, dump your leaves into a lightweight trash can, place a trash bag over the top, upend the contents into the bag, tie it off, and start on another one.

For most leaf uses, shredding is desirable. It speeds up the decay time. Some whole leaves will take up to two years to decompose. Leaf mold, the end product of decomposition, is an effective carrier for fertilizer. Leaf mold, when mixed with fertilizer and applied as a mulch to your plants, will feed your plants gradually--as they can use the nutrients--and will avoid burning newly developing feeder roots.

If you don't have access to a sweeper-shredder or a grass catcher that fits on your power lawn mower, shred leaves with an ordinary lawn mower. Simply place the leaves in a small heap, near a solid fence or other

backdrop, and run your lawn mower over it until you have a pile of shredded leaves against the fence.

Sheet Composting

There are several ways to apply your bounty of leaves to the garden. Sheet composting is the easiest. Just spread whole leaves over your garden and add manure or a nitrogen fertilizer to feed the decay organisms which are present in the soil. These organisms will break down the leaves to release their nutrients. Mix all of this into the soil with a rotary tiller. The decomposition process will be complete by spring planting time.

Leaf Composting

If you would rather apply the leaves to your garden in the spring to avoid any leaching of nutrients over the winter, making compost out of them is the way to go. For this process, shredded leaves will decompose fast-

er, but whole leaves will work. A simple compost enclosure can be made by shaping woven wire into a circular bin. Fill your enclosure with about eight inches of leaves and add a one-to two-inch layer of garden soil. The soil will provide the decay organisms to break down the organic matter.

Instead of using the soil layer, you can purchase packaged decay bacteria, specifically isolated for the breakdown of leaf matter. Try your garden center or a mail order distributor. (Ringer Research, of 6860 Flying Cloud Drive, Eden Prairie, Minnesota, 55344, retails a product called Brown Leaf Compost Maker, which I have used.)

Next add manure or a nitrogen fertilizer to feed the decay organisms. Soak with water, then repeat this process layer by layer to the top of your enclosure.

The intense decay activity will heat the compost pile to around 150 degrees for about 7 to 10 days. When it begins to cool down turn it over with a fork and loosen any clumps of material. Restack, putting the most decomposed material to the center of the pile, and water again well. Leave a depression in the middle to collect rainwater. If you have an extended dry spell, water at least once a week. If the pile no longer heats up and there is still undecomposed material, more fertilizer may be required. When all this leaf matter is decayed, it is ready to use.

The Versatile Leaf

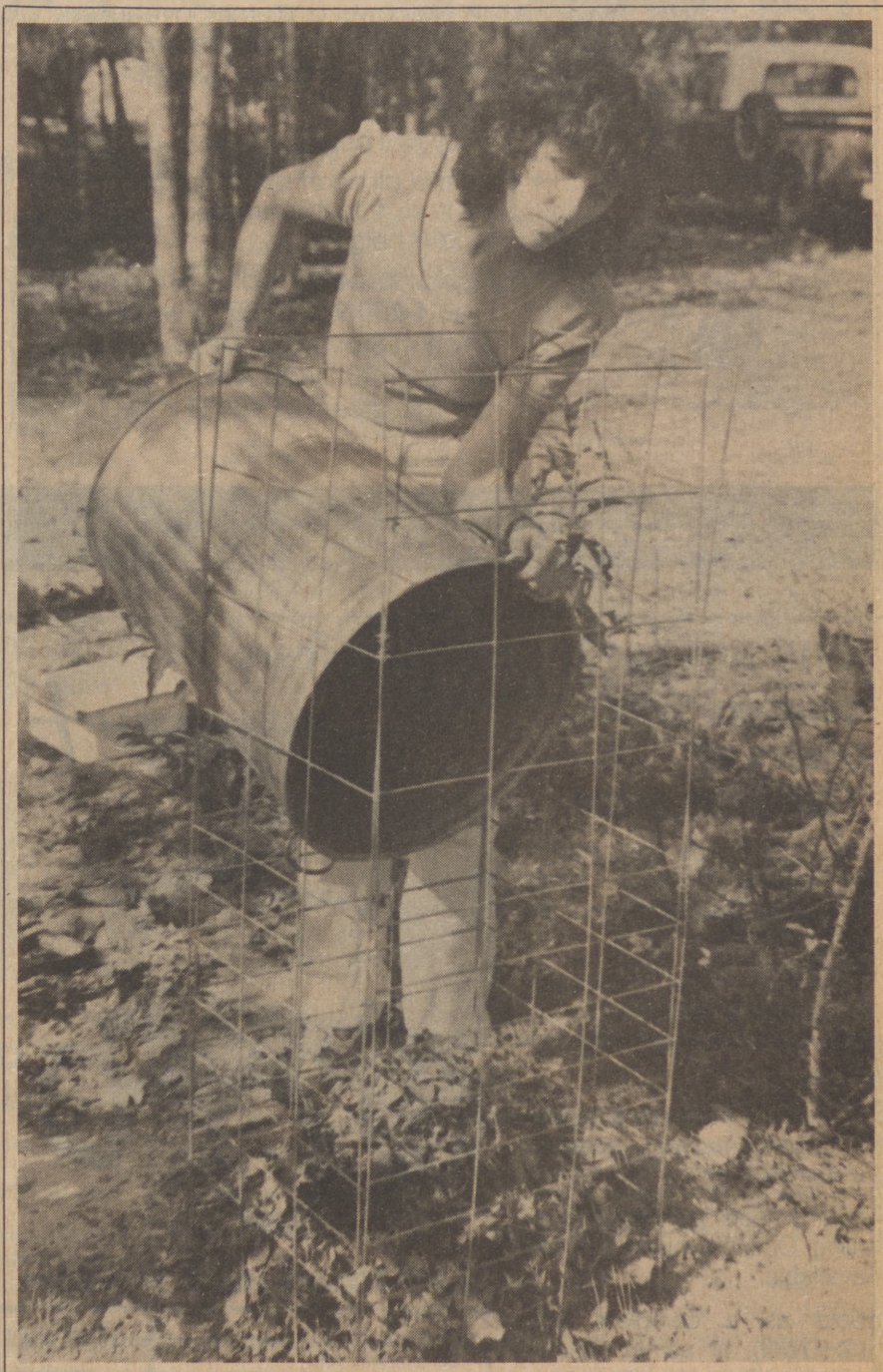
Leaves can be used in other ways before they end up in your garden. They make excellent bedding material for farm animals. When the bedding becomes soiled, it will be ready for immediate removal to the garden or compost pile and not need more fertilizer. Leaves keep down odors better than most bedding material. Animals such as horses or cattle will not be as likely to eat them, as they would with hay or straw for bedding. And you will certainly cut on costs. A word of caution: Do not use leaf matter that has been soiled by cats or dogs. The heat of composting will not kill parasites in the fecal matter and parasites can be transferred to your garden and to you.

Leaves make excellent insulating material loosely packed around fruits or vegetables in a root cellar. A

simple root cellar can be dug out several feet deep and lined with garbage bags to keep out ground moisture. Pack the leaves around fruits or vegetables. Cover with six to eight inches of leaves. Use more for northern climes. Cover the leaves with a tin sheet or other solid covering. Pile another three or four inches of leaves, and cover it all with plastic sheeting or another moisture-

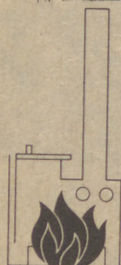
proof barrier. Anchor the sheeting with rocks or other heavy objects. When all your produce is gone, use the leaves for your garden. In this way, leaves do double-duty.

Bags filled with leaves can be used to bank around the foundations of your home in winter months to keep out those chilly winds, and save on heating bills. By springtime, some decomposition will have taken place,



Shredded leaves decompose faster than whole leaves. The pile will heat to around 150 degrees for about 7 to 10 days. When it begins to cool, turn it over with a fork.

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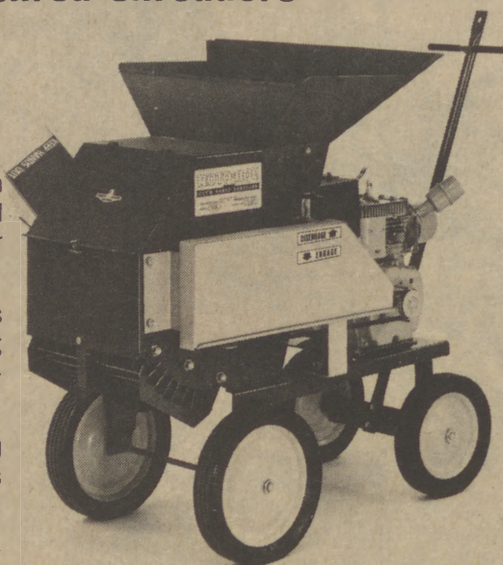
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and the leaves can be transferred to the compost pile or used for mulching early spring plants.

Apartment dwellers often have a balcony or window boxes. If you are several stories up, transporting large amounts of soil for container gardening can be a problem. Leaves can be a solution. Leaves as a growing medium eliminate the need for drainage in your pots. They hold water like a sponge so it doesn't settle to the bottom and kill the plant roots. And the leaf medium will not harden in your pot like soil does, allowing for maximum root growth.

Just fill your pots or buckets with leaves, topping them with about two inches of potting soil. Leaves make an excellent growing medium—light-weight and economical. Add fertilizer occasionally as you water your plants. All those nutrients stored in each leaf will slowly leach out to feed your plants.

Gathering Leaves

How do you go about getting enough leaves if you have only a few trees, or if you live in an apartment complex with no trees of your own? There are several solutions to this problem.

One method is to call your local trash collection agency. If you are looking for a large supply, they may deliver bags of leaves free to your residence. For smaller amounts, go and pick them up at the disposal site. You must prearrange all this. For apartment dwellers, leaves are "free for the raking" in parks or vacant lots citywide. Or, pick up some of those already bagged and waiting along residential streets.

Another plan is a small-scale business operation which can be a money-making opportunity for your children and net mountains of leaves for your own use. Hire yourselves out to rake leaves. If you are low on children, a sweeper-shredder would save a heap of raking. Many of our older people would appreciate this service.

Now that you know how sweet a leaf can be, rake in a bountiful supply this fall! ☐

Joyce Tintjer was raised on an Iowa farm. She sews, knits, gardens, preserves food, does carpentry, takes pictures and writes in Eclectic, Alabama. Photos are by the author.

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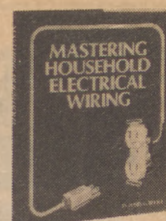
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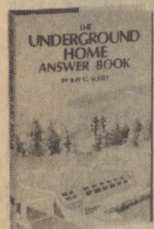
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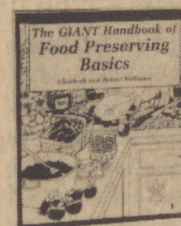
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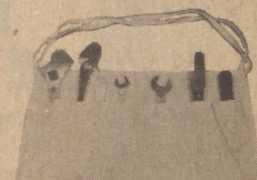
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Hyacinths

Plant Fall Bulbs and Grow Sparkling Spring Gems.

The most lavish, fragrant flower in spring is the hyacinth. In late April and early May, their dashing plumes create a dramatic parade along garden paths or borders. They need little care once the garden bed has been prepared. If you plant hyacinths near a window or grow them in pots for winter blooms, they will fill your home with a magic fragrance, an unearthly sweetness.

Once planted in the fall, hyacinths will return each spring. Flower clus-

ters grow completely around the stem, so blooms can be viewed from all sides. Most of us are familiar with the common garden or Dutch hyacinth that bears the bold spike filled with tightly packed flowers. There is also a more airy, delicate type called the wood hyacinth with a looser arrangement of bell-like flowers on the single stem. They grow about 15 inches high appear in late spring, and are ideal for naturalizing. Wood hyacinths do well in partial shade. The little blue or

white grape hyacinth adds sparkle to the early spring garden with its six-inch spire of tiny bells.

Most hyacinths are from Mediterranean shores and some are from South Africa. Gerard in his "herbal" (1596), describes the hyacinth as a well-known flower. At that time, blue, white and pink varieties were the only colors known. Now lemon yellows, reds and lavenders have been introduced. Careful selection and cross-fertilization have made great im-

provements in color and form.

Most of the hyacinth bulbs you can purchase have had their first home in Holland. Your end of cultivation is to bring the bulb up to the proper condition so it will flower.

Fall is the time to plant your hyacinth bulbs so you may reap their heady harvest in spring. The hyacinth likes a very sandy, well-prepared, fine, light soil, entirely free of gravel. It should have good drainage so that bulbs will not rot. You must carefully prepare your beds so they are free of stones and the soil is nice and crumbly. It would be good to lighten heavy clay soil with peat, sand and compost. Double-digging the bed is also a good idea. Hyacinths will do reasonably well in most soils, but need soil deep and rich enough to promote good root growth.

Keep in mind that bulbs root downwards. The quality of the soil beneath them is more important than the soil above. You will want to get your hyacinth bulbs in before November--earlier than tulips bulbs. Bulb-planting weather should be dry. Continued wet weather is liable to cause rot.

If your soil is heavy, plant the bulbs about three inches down. If the soil is light, plant from four to six inches. Six inches is a standard depth. A bit of bone meal in each hole will help your bulbs. Now mulch the beds. Newly fallen leaves offer the best and most natural protection. Cover the soil with six inches or so of leaves and a margin of two feet on either side of the beds.

Plant your bulbs in little groups or colonies rather than "here and there" in the garden. This will produce a dramatic spotlight of spring color rather than a scattered performance. Hyacinths make perfect border flowers. They also look well with a shrub as a backdrop. Shrubs and surrounding foliage will help protect your hyacinths from their major enemies--freezing spring winds and unexpected frosts. Climates like those in New England, with constant thawing and freezing, make life hard for hyacinths. They will grow well, but need your watchful eye to ensure their

safety in cold springs.

In spring, when frost is no longer a fear, uncover the hyacinth beds and clear the surface of debris. You may already see their hopeful green spears poking up through the soil. After your bulbs flower, cut off the old flower stalk. This is called dead-heading. This act throws the whole strength of the plant back into the bulb. The bulb is the storage house for next year's plant.

Hyacinths in Pots

Early fall is a good time to pot hyacinths for indoor winter culture. For a single bulb, a five-inch pot is ample. Fill it with a light, rich potting soil. Remove a little soil from the center and lightly press the bulb into it. (Plant the wide end down! That's the root end.)

Pack the earth firmly around the bulb. Leave about one-third of the bulb visible. Make sure the soil beneath the bulb is soft and loose and not hard-packed. If it is hard-packed, when the roots begin to grow, instead of penetrating the soil, they will lift the bulb out of its position. Sprinkle the soil with a little water for even moisture.

A common place to store your potted bulbs is in a root cellar, basement or shed. Don't let the soil get too dry after the roots start. In places where winter is less harsh, some people put pots in a sheltered spot where they will not get too much water. They cover the pots with six or eight inches of soil or ashes. Over this they throw leaves or hay.

For a succession of blooms, bring in as many pots as you desire from December first, and every two weeks after that, until February.

If your bulbs have been properly kept from frost, they will have made some good top growth but look a little peaked and yellow. Gradually bring them to the light until they get a more natural green color and get used to house light and heat. Hyacinths bloom best at cooler temperatures in the house, but will do well in the living room or kitchen if you water them sufficiently. ☐

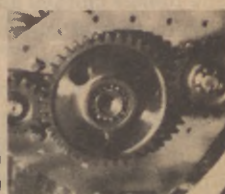
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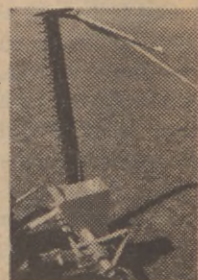
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A Pinch of Peace

Being nine is fine - - especially when you come from a close family and live on a small farm .

I am writing about my family and farm. Our family includes four people--my mom, dad, brother and myself. Our family has a special bond. I say this because of how close we all are.

Mom is interested in sewing. She is working on a puff quilt for my bed. After she is finished with this, she is planning to make curtains to match. She makes clothes and has made a tablecloth that matches perfectly with our country home.

Dad works away from home to make ends meet, but he gets a lot of satisfaction working the land. He enjoys riding our horses and pony. He also likes planting crops in our large garden. My brother is six and helps Dad when he can. He is a chip off the old block.

Our farm is 13 acres large. The house and barn were built by Mom and Dad. Dad was helped by family and friends to build the barn roof and some other difficult parts, but he did the inside and most of the other basics. Although Dad sometimes complains about our farm being too small, I don't think any of us could part with it.

A small, trickling stream flows down the hollow and in the woods. When you want to go somewhere to be alone, the woods is the place. A log lays across the stream, just perfect to sit on. Minnows swim beneath you, and frogs and water skippers jump from place to place. The woods are also nice for picnics. During the summer, Mom's Girl Scout Troop camped there for a night.

Sometimes there are large, round bales of straw on the field. My brother and I sit on them, not far from the barn. Once, we climbed on top of them and scattered the straw. Dad soon said no to that!

We have raised ducks, rabbits, laying hens, cows, two bottle calves, cats, a pony and two horses on our farm. Everyone enjoys sulky rides on our pony Pepper. I love the wind whipping through my hair and whispering "Yah, yah!" in his ear to make him run even faster. Taking trail rides on the horses is fun too, even when there are briars that keep you "stuck" for awhile.

Spring is very busy. Christmas trees are planted, a thousand at a time. Onions, green beans, gourds, pumpkins and fruit trees are planted too. The rabbit does are bred for Easter rabbits. We also buy and raise feeder pigs. The barn stock is increased and trail rides on the horses are enjoyed. Our chimney must be cleaned. Dad and Bucky (my brother) go trout fishing. Mom's flowers bloom nicely. Crops are mulched and weeded. Strawberries are picked and put in buckets by the gallon, and mushrooms are picked in the woods.

Last year, a scarecrow we named Lockjaw was placed in the center of



Courtesy of the Schafers

Brandy Shafer takes Pepper, her pony, for a spin.

the garden. His straw-filled body looked so real. If you glanced sideways, you wondered who was in the garden. The aluminum pie pans tied to his hands banged with the slightest bit of wind.

Summer means canning and harvesting crops. Jams and jellies are made and set on the shelves for winter. Picking wild raspberries sometimes means poison ivy, but you do end up with pies, jams and jellies. Trips to the creek are made all summer for swimming and fishing. Cookouts are enjoyed.

Fall is raking leaves! The trees in the hollow all give their share, and you always have a bunch to clean up.

Do You Know an Outstanding Farmstead Person or Family?

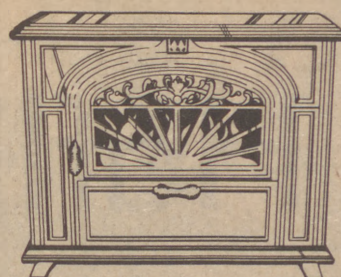
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Dad goes hunting for squirrels, rabbits and deer. My pony, Pepper, hauls wood out of the woods to be burned during winter. We finish harvesting crops such as turnips. Applebutter is made, and Mom cans pumpkin. Tools, bikes and other things are stored in the basement. Mom makes pants, shirts and dresses for us to wear to school. The quilts are pulled out of the closets to go on the beds, and Mom makes grape juice.

Winter is also a busy season. Reading is enjoyed in the cozy "rec" room which is heated by the wood stove. Dad sharpens and adjusts the tools for spring. The butchering of steers, pigs, turkeys, chickens and rabbits takes place in the wintertime. Ice skating is enjoyed on my grandfather's pond. Graddad lives next door, so it isn't a long walk.

Making soap (90 pounds last winter) is a chore. Sledding is fun if you don't run into the barn. Rabbit sausage is spicy and good on a cold morning. Adjusting the budget is also a chore, but it needs to be done. The home computer comes in handy. The pony is used to pull the sleigh. Mom and Dad spend hours deciding which seeds to order for our garden. A pinata is made for the Christmas holiday, and once in a while, gingerbread houses get made too. Everyone spends time making gifts for our friends and family, even my brother. Mom and my aunt get together every year and plot to make Christmas candy. (One evening, Bucky and I came home to the smell of cinnamon, peppermint and other pleasant scents.)

Mom, Bucky and I also spend time making cookies. Vegetable soup is made from vegetables that were bulk frozen when they were harvested from the garden. Hot chocolate heated on the wood stove is our favorite drink.

In conclusion, I would like to add that Mom and Dad started working on this farm before I was born, and it has taken a lot of hard work. I would also like to say that it was worth it! ☐

Brandy Shafer, age 9, has learned about farmsteading firsthand on Pinch of Peace Farm in Greencastle, Pennsylvania.

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Haflingers

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Working a Haflinger team, Walt Mosher relies on voice commands as much as commands through the lines.

I'm one of those animal crazy fools who wants to have one of every kind of creature that God created. But I don't, because I'm not rich and know I couldn't care for all of my wards if I had too many. This explains why I cut an ad out of a magazine and sent for free information about a breed of horse called Haflingers. I never heard of this breed, which irked me, because horses are my number one, all-time favorite animals. I wrote to Bexley, Ohio for information, and in a few weeks received a list of breeders, a pamphlet about Haflingers and some pictures. But this information only whetted my interest, I wanted to see a real Haflinger.

A few months later I was lucky enough to be camping near Northville, New York, which is where our nearest breeders live. At that time, Walt and Betty Mosher of Northville were the only breeders of Haflingers in New York State. I called them, and the Moshers invited us to come up and see their horses.

When we arrived at their farm, Walt showed us these handsome animals. He brought two out of the barn to let us get a closer look at the plump, golden creatures. One was his wife's horse, Static, and the other was the main herd sire, Abdul. Walt told us how he uses Haflingers to make his living by logging.

Haflingers are a mixture of some Arabian blood and of the native draft stock in a part of Austria called Tyrol. ("Tyrol" means mountainous.) One of the most convincing facts about the terrain is that Innsbruck, home of the world-famous ski slopes, is within this region. This area probably helped develop the sure-footedness that Haflingers are known for, as well as their hardiness.

Haflingers were first brought to the United States in 1958 by Mr. Tempel Smith of Wadsworth, Illinois who admired them on visits to Austria. Mr. Smith brought 15 Haflingers to the United States on subsequent trips to Austria. In addition to the imported horses, Mr. Smith was able to raise

many Haflingers and became the first breeders in the United States.

Haflingers range in size from 50 inches (12½ hands) to 60 inches (15 hands), and weigh approximately 900 to 1300 pounds. Their colors range from a blonde or sorrel to a chocolate or chestnut color. They typically have flaxen manes and tails. Betty calls their manes "double manes" because they are thick enough to part down the middle so that they can fall in both directions. Their tails are also thick and heavy. Some Haflingers have stockings. White markings on their faces range from full blazes to stars. Many people comment that Haflingers look like miniature Belgians.

This breed has a very gentle nature and tractable disposition. They are also good mounts for children and the Moshers trust their horses around their own grandchild. Haflingers seem so tame and gentle that even when a stranger goes into their pasture they are almost too friendly and inquisitive.

Walt and Betty boast that they've

never seen anything that frightens Haflingers. This includes the chain-saw that the Moshers use to do their logging.

I was pleasantly surprised when I found out that Haflingers have only one name, the one that shows their bloodlines. Walt and Betty told me that as far as they know, there are five bloodlines in this country, although there are seven lines in the Haflinger's native Austria. Horses are given names that begin with the letter of the alphabet their line goes by. In this country, there are the following lines A, W, S, St, M and N. The Moshers have horses of each of these lines, except the N line.

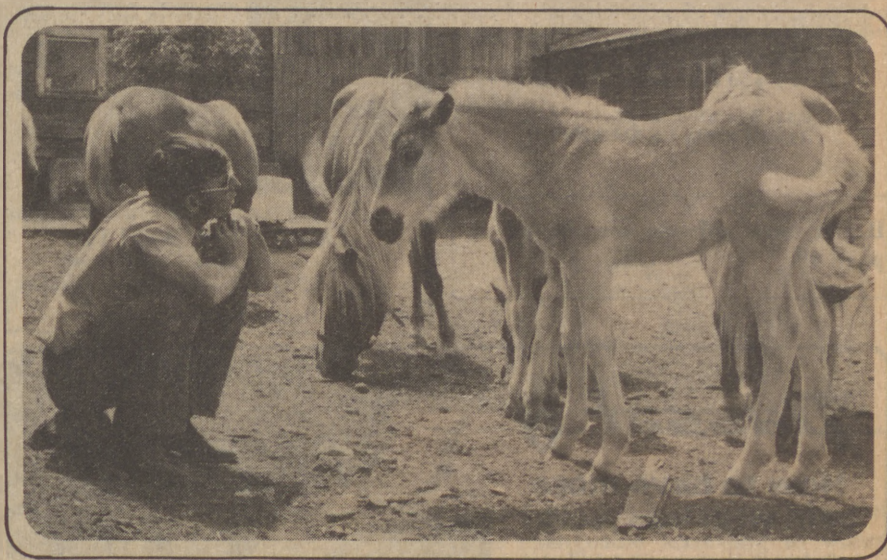
When a foal is born, if it is a filly, it is given the name that starts with the same letter of the alphabet as the dam. If the foal is a colt, it is given a name that starts with the same letter as the sire. For example, let's take Amanda, one of the Haflingers I was fond of. Her dam was a horse the Moshers called Princess, but who is registered as an A-line mare. Her registration name is April's Princess. Amanda's sire was Betty's beloved horse privately called Colonel, but who was registered as Static, to show his St-line geneology.

Besides breeding and raising horses, the Moshers work in the woods. They buy stumpage, fell the trees, cut the logs at lengths varying from 8 feet to 16 feet, and then twitch them out using their handsome Haflingers. Walt has been logging full-time since the summer of 1977, and Betty joined him on a full-time basis in February of 1980. Now they work together in the woods. They kid each other because they don't always agree about how things should be done, but they combine to form an invaluable team. They are often joined by their dear friend and fellow logger, Harlan Handy of nearby Mayfield, who also used some of Moshers' Haflingers, as well as his own pony-Haflinger crosses. He is described by Walt and Betty as a "real teamster," a comment Harlan just quietly acknowledges.

There are numerous advantages logging with horses. For one thing, the land is not torn up as it is with machinery. Second, the cost of one team is much less than the cost of the machinery used to do the same job. Third, the Moshers say that the skid trail can be smaller and the horses can maneuver in tighter places, and can get through brush easier.



Haflinger brood mares enjoy their daily grain.



Walt pauses to talk to a foal named Charlie.



Walt Mosher and his hard-working Haflinger team pull out the last log of the day.

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occasion, geese will give in to an attack by predators for no known reason. I witnessed the repeated attack of a weasel on my flock of geese one fall. Because I could not get a bead on the attacker until it was too late, it finally killed one of my Africans. Needless to say, the geese dwarfed the tiny killer and I never found a reason for their suicidal resignation.

Geese on the loose seem much friendlier, on the whole, than penned geese. They will follow you into the house if you allow it! They are curious, talkative clowns. If you're lonely, get a couple of geese. I do think your attitude toward them has a big effect. I have approached geese at their meanest, and because I do not usually bother them when they're aggressive, the worst I've every received was a pinched calf. In that particular case it was a newly purchased gander during breeding season.

During an outright attack it sometimes helps if you hold your ground, giving the bird time to think about it. Sometimes a gander will even start a friendly conversation with you as soon as he feels that his gaggle has retreated a safe distance from you. Ganders do have a tendency to "fly off the handle." Their macho image means a lot to them, so if you try to run they are almost forced to take advantage. Though free-ranging ganders are often more docile during mating season, a gander at this time may feel threatened in a 40-acre field if that's the mood he's in that day. It's his job.

Myth Three: Geese are easy to raise.

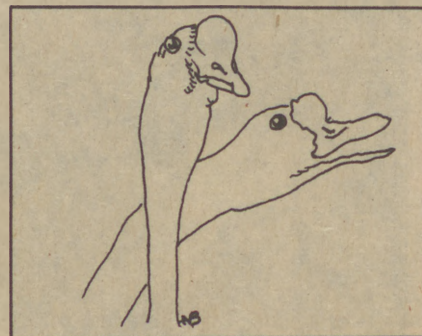
Fact: Not So.

Goslings have a high death rate when raised by their mothers. This has nothing to do with whether the mothers are good or not. Goslings are just plain delicate. Sometimes the parents step on them and accidentally kill them. Goslings can become wet in morning dew and suddenly die. They regularly drown in water only one-half inch deep (beware water pans). Rats seem to be able to carry them away with a lot more ease than seems fair. The mother goose will take her goslings out into the hostile environment at the first opportunity. She feels safer in the open, and if it's possible let her go. You won't save any more goslings by caging the whole crew.

Myth Four: Geese will eat anything.

Fact: Geese eat what they want.

I tried the green leafy hay one book recommended for winter feed. My geese would not eat it, even when the snow was three feet deep. They went out into the snow and picked a living by digging down! When housed, (even with hay, ground feed and whole corn), they were not happy, even in the most bitter winter weather. They actually prefer the worst of the elements to being housed, but you must use caution. One of mine continued to sleep in the snow until one of his feet was half frozen. I was forced to lock my geese up at night. Oh, they did use the hay for something. They sat on it.




Myth Five: Geese can live with the same conditions that chickens live with.

Fact: Absolutely wrong.

The fact that geese need a lot of water is never stressed enough. They need water to mate properly and to eat properly. They are water birds. They eat-drink, eat-drink, swim-drink, eat-drink, all day long. They are ardent lovers of water, and if it is not possible to provide them with enormous amounts they should be housed near a pond or stream. You must be prepared for mud in direct proportion to the number of geese.

Geese grow on you. Once you've raised them you'll never forget them. It's likely you'll always have them around. You'll be richer for it in many ways. Watching a gander snuggle solemnly onto a clutch of eggs while his wife takes a needed swim is a sight to behold. In the fall, when the wild geese seem so free and wild, yours too, will take off in imitation, flapping across your lawn until they nearly can lift their feet from the grass, honking with joy. Yes, you'll be much richer. ☐

Sandra I. Wellman lives and raises livestock in Johnson Creek, Oregon.
Photo by Read D. Brugger.



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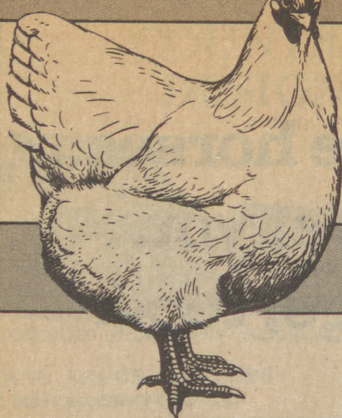


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A Newsletter About Livestock Care

RARE BREEDS

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Jersey Giants and Cornish produce large roasting birds that may weigh more than a dozen pounds while massive Cochins and varieties of Plymouth Rocks will prove to be delicate mothers.

While many of these breeds are now considered rare, they can be purchased in most areas of the country. By selecting one of these older varieties, one can have a farm flock tailored to meet the family's particular needs.

--Terry Kerns

A GREASED PIG

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--American Agriculturalist

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FOUNDER FACTS

Horse owners trying to be extra kind can really be quite cruel to their animals. Misapplication of "kindness" too often results in founder or laminitis, a serious, painful ailment in the feet.

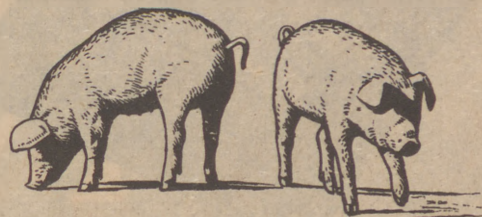
Founder results when disturbance of the blood circulation to the feet causes the fleshy laminae in the hoof to swell and become inflamed. Since the hard hoof and sole doesn't allow much expansion, the inflammation builds up painful pressure.

Overfeeding, misfeeding and watering the horse when it is hot can each disturb the blood circulation and cause founder. Feeding too much grain or high protein feed frequently causes founder. Founder also can result from prolonged stress or nerves, standing on hard surfaces while being in foal, and retained afterbirth.

Cases of founder range from mild or even unnoticed to severe, where the horse will not move unless forced. When severe, the horse will try to avoid weight on the sole. An elevated body temperature and sweating are usually associated with severe founder. You will be able to feel heat in the legs and hoofs of the front feet.

If you find your horse has foundered, call a

competent veterinarian immediately. Early treatment is important to prevent the disease from developing into a chronic condition. Soak the horse's feet in the coldest water obtainable. Use ice if available. Prompt purgation to clean the bowels is important if the condition has been brought on by overeating. --Utah State University Extension



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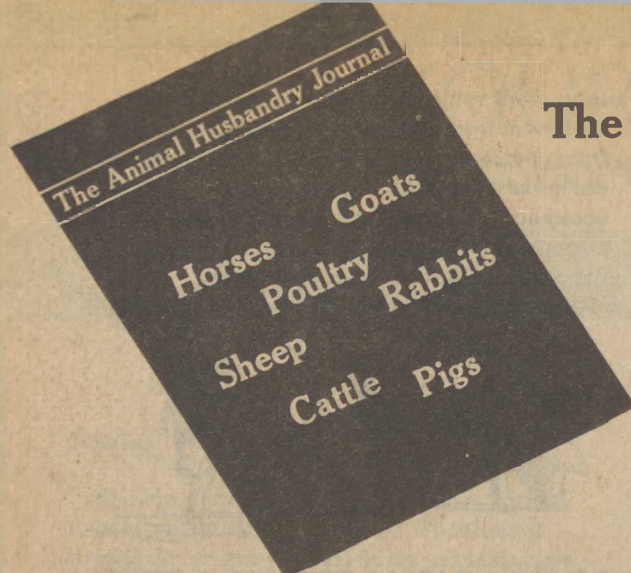
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This column will give you the opportunity to ask those questions that have been puzzling you--why do some horses shy away from grooms and passersby? What's mange and how do you treat it? Is my goose being silly or showing symptoms of something that deserves treatment? We will give your questions to our contributing editor, a qualified veterinarian. He'll give you the benefit of his education and experience--just for the asking.

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On one page we will pack seasonal reminders of what you should be doing for your livestock in order to guarantee top performance--whether you have poultry, horses, cows, sheep, rabbits, goats or pigs, this section will supply timely tips so you can provide better care for your critters.

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Every issue will let you find out how other small-scale livestock operations deal with various types of problems. Feedback will pose a question for you to answer. In the next issue, we will print a selection of answers that reveal the ingenious solutions small and backyard farmers have for the many problems that all livestock owners encounter from time to time.

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all. You will be able to depend on **The Animal Husbandry Journal** to serve up a steady diet of useful livestock news--what studies reveal about feed and forage practices, new ideas for general livestock health and hygiene, what you need to know about new vaccines and disease alerts, new breeds to look for and the latest advances with standbys, training tips and grooming aids, and much more.

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Fall 1984

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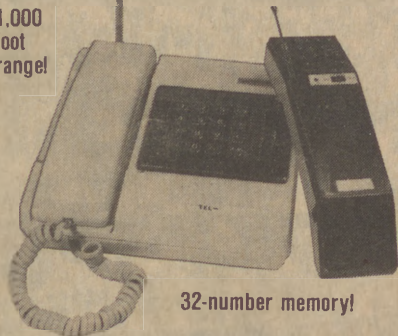
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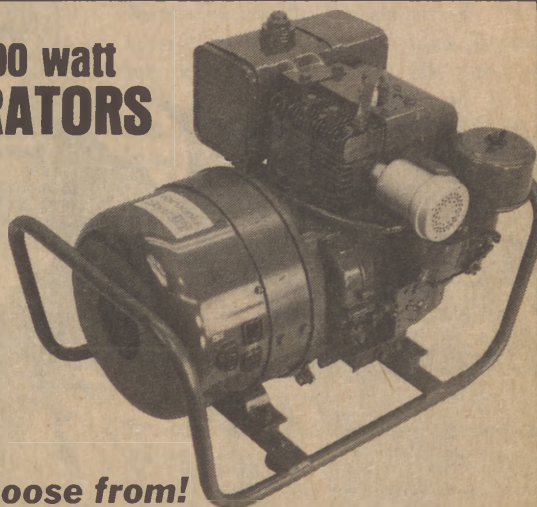
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
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Ear Corn Harvest

by Dennis Demmel

A new look at an old way to store feed corn.



Harvesting corn in the ear has dwindled in popularity, but its advantages are many. Chief among them is reduced cost especially for the beginning farmer who can get his hands on a used picker and storage bins for next to nothing at farm sales. Ear corn can be a very economical feed for beef cattle, too, partly because the cobs are free roughage.

In spite of these advantages, less than 11 percent of Iowa's corn acres were harvested by mechanical picker, according to a USDA Report in Iowa, the only state in the area keeping track of ear corn harvest. Seed corn is included in that total, making the amount of conventional corn harvested in the ear even less. In some areas, ear corn harvest remains fairly popular, however. About a fifth of north-west Iowa's corn acreage is picked in the ear, a statistic that probably applies to nearby portions of Minnesota, South Dakota and Nebraska.

Farmers have differing opinions on the effectiveness of harvesting corn in the ear. It's more feasible on some farms than others, depending on each farm's size, available equipment, livestock, and other factors.

John Fleming, who with his son farms 240 acres and feeds hogs in Cedar County, Nebraska still harvests corn with a single row Woods Brothers picker. "We've got the ear corn harvesting equipment," he says. "And we don't have the drying costs." Changing to shelled corn would cost more, with the need for drying equipment and fuel.

Although farmers in Nebraska can often dry shelled corn with natural air, the situation changes as one goes east into areas of higher humidity. From Iowa to Ohio, more energy is required for artificial drying. Floyd L. Herum, agricultural engineer for the Ohio Agricultural Research & Development Center, says that farmers may not be able to dry grain artificially in the future as energy costs rise. "Predictions that I'm

John Fleming examines ear corn in the crib, where it will keep for three or four years.

seeing are frightening," Herum says. He reports that natural gas suppliers expect a 500 percent price increase by 1990.

Superior Grain Quality

Grain quality is one effect of ear corn storage that Fleming likes. "There are less fines and the quality is better, he says. Ohio's Herum agrees. The quality is related to the speed of drying he says. The longer the corn is allowed to dry, the better the quality. When corn dries on the cob, the kernel drying rate is less than the rate allowable for shelled corn. Artificial drying at high temperature has a damaging effect on the mechanical strength of corn kernels, says Herum. Stress cracks develop in the kernel, and excess dust results as



corn is handled commercially. Elevator explosions are more common today than years ago when corn was not artificially dried Herum points out. "The cost of removing the dust goes right back to the farmer."

Herum has conducted tests on the strength of corn kernels with the Stein breakage tester, a standard device used by researchers and industry. Kernels from corn harvested in the ear are "practically indestructible," says Herum, compared to 25 percent

breakage for corn dried rapidly with heat.

Nebraska farmer John Fleming also thinks that ear corn requires less management. "It will keep better, with less problem of it going out of condition," he says. Once you crib it at resonable moisture, it will keep for three or four years. A couple of years ago, a lot of shelled corn around here went out of condition in the spring."

Economics

A new corn picker is about a fourth of the cost of a combine, researcher Herum estimates. The picker is less complicated mechanically. So it's easier to repair and probably subject to fewer breakdowns.

Vic Nissen of rural Hartington, Nebraska couldn't agree more. "Ear corn is by far cheaper," says Nissen, who harvests half of his 100 acres of corn in the ear. Compared to a \$50,000 combine and drying equipment, Nissen's second-hand International Harvester 2MH two-row mounted corn picker was a bargain at \$200. "I have another 2MH that I bought for \$100 at a sale. It's used for parts," he adds. "I don't think I've bought a new picker part in the 25 years I've been picking." New parts can be more expensive. A blower fan, for example, runs \$75 to \$100, but Nissen feels no need for new parts when "you can buy a whole used picker for \$100." For John Fleming, with a Woods Brothers picker, "it's getting harder to find parts, but a person can still make a lot of them himself," he says.

"A small farm can't afford a new combine," Fleming continues. He says he gets his corn into the crib just as fast as his neighbors finish combining, anyway. And, if a farmer with a few acres needs a combine for small grains, he can have it custom harvested. Fleming, for example, plants 240 acres to a crop rotation that includes oats. His neighbor combines the oats. "You have to have a reliable neighbor," he warns. "Nine to twelve dollars per acre for combining eats into your profit, too, but not like a new combine would."

Nissen says many farmers using

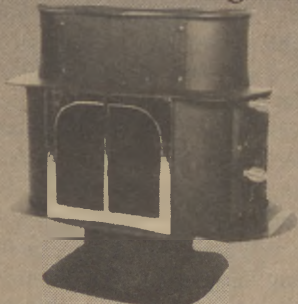
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This corn crib is a long, narrow pole structure. Wire fencing holds in the corn.

ear corn are going to the more convenient pull-type picker. "You just back up to it and you're ready to go," he says. Pickers such as the New Idea brand also have larger husking beds, producing cleaner corn. "I don't care if it's picked a little dirty," Nissen says. A few extra husks add roughage to the corn he feeds to livestock, but Nissen also knows that the husks inhibit drying in the crib. If he has to replace his present unit, he says he'll buy a pull-type picker.

Storage Tips

Handling ear corn after it's in the crib requires more labor than shelled corn. "That isn't too bad if you've got a trench under the crib," says Fleming. Some corn producers with rectangular cribs use skid loaders to unload their cribs, says Gerald Bodeman, agricultural engineer at the University of Nebraska. A concrete pad on the end that is opened provides a starting place for the loader. But that can be expensive, unless the farmer has a skid loader for other uses. "Even a used skid loader will start at \$7,500," Bodeman reports. Floyd Herum says that a corn crib could be designed for improved mechanical unloading, although it would be somewhat more expensive. Such equipment was never fully developed due to the shift to field shelling.

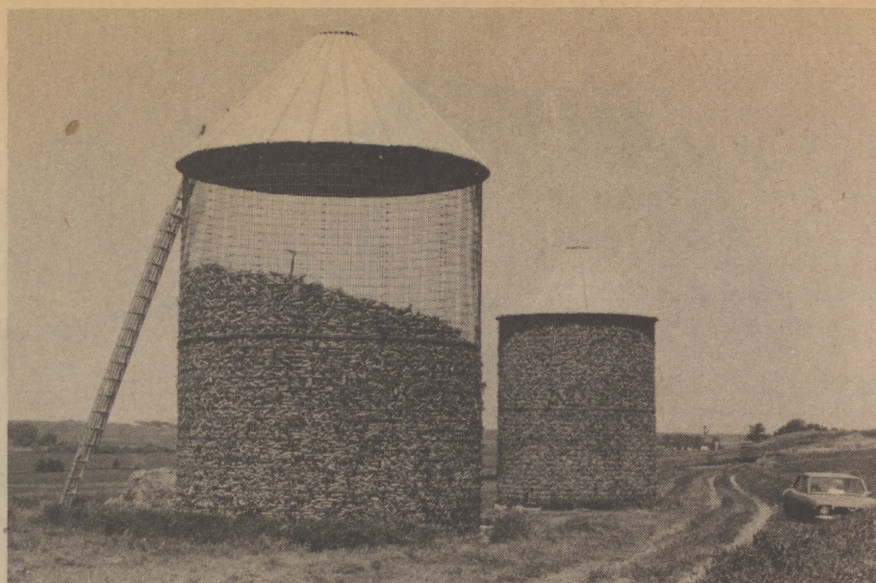
Getting a custom sheller may be a problem in some communities. If small farmers in those areas have access to a combine, an attachment made by Kersten Enterprises of

Roberts, Wisconsin, can be used to feed ear corn to the combine for shelling. Cobs and husks can be moved away from the combine discharge with an elevator.

John Fleming has several types of corn cribs. A long narrow pole structure uses wire fencing to hold the corn. Corrugated metal covers the crib. Fleming also has two round steel Behlen cribs that he purchased second hand several years ago for a mere \$350. Each crib holds 2,000 bushels of corn. Fleming and his son bought the used cribs in southern Nebraska and disassembled them for transporting to the farm. The concrete base of the cribs cost another \$250.

Vic Nissen also uses round cribs and several of his neighbors bought used cribs like Fleming's. "They paid about \$300 for them," he reports. Used corn cribs are becoming increasingly available as the shift to field shelling continues, providing a good supply of low cost storage for the small and beginning farmer. Bins for shelled corn, on the other hand, continue to be in demand, with only new ones usually available. The investment cost of a new bin runs about \$1 per bushel of storage, according to Dean Linsenmeyer, economist at the University of Nebraska. Linsenmeyer based the figures on an 11,000-bushel bin complete with a full set aeration and unloading equipment.

A round steel crib provides some flexibility for the future, Fleming adds. A liner can be placed inside the crib wall to allow use as a bin. "So you don't need a complete structure if



Fleming and many other farmers also use round, steel corn cribs. Placing cribs in the windy field provides better drying conditions.

you ever change over," he says.

Fleming located his cribs away from the farmstead in the field. The wind there provides for better drying conditions.

Gerald Bodeman provides several precautions for storing ear corn properly. Cribs should be limited in width. "We do not recommend more than six feet," he says. An eight-foot crib could cause problems if the maximum recommendation moisture level of 25 percent is used, unless aeration fans are used, adds Bodeman. Wide diameter cribs should have a vertical aeration tube in the center and several lateral tubes. But even then, molds can develop. "There is a chance for toxic molds in the center," Bodeman cautions. He says corn can be harvested in a drier condition for wider cribs, "but if it is dry enough for the wide crib, then you have greater shatter losses in the field."

The Extension Service bulletin, "Efficient Crop Drying," says that "ear corn can be dried with forced air up to 35 percent moisture. Most cribs can be adapted to forced air drying." More information on this is available in USDA Miscellaneous Publication 919, "Drying Ear Corn by Mechanical Ventilation." Crib storage recommendations vary with location.

John Fleming starts harvesting ear corn at 22 or 23 percent moisture. "I use the narrow crib first, then as the corn dries down I put it in the wider crib," he says. Bodeman suggests that a cone-shaped spreader be hung in the roof of the crib as it's filled.

Fines are more apt to start molds in the center where the corn doesn't dry as easily.

Fleming admits that combining corn can mean less labor. "Combining is a lot easier and less work, there's no comparison," he says. "The volume is twice as much with ear corn as with shelled corn," he adds, and

that translates to more labor.

Francis Wortman, also of Cedar County, doesn't care for ear corn. "I don't like to handle it," Wortman changed to field shelling about nine years ago. "I didn't have a good corn crib in 1973," says Wortman. And his picker was worn out at that time. He says that combines have "stripper pates" and heads with flatter slopes than many older pickers. Both reduce field losses. Newer pickers also have these improvements.

Feeding Advantages

"We like ear corn for grinding," says Vic Nissen. "It's wonderful steer and milk cow feed. They need about that much roughage." That's about what Iowa State University researchers have discovered. Allen Trenkle of the ISU animal science department says that corn cobs are a good ingredient in beef cattle rations.

Trenkel, and co-worker Wise Burroughs, have studied feeds with cobs making up to 60 percent of the ration. Although such a ration gives a lower rate of gain in cattle, it was intended to provide a lower cost feed that would yield leaner beef. Burroughs

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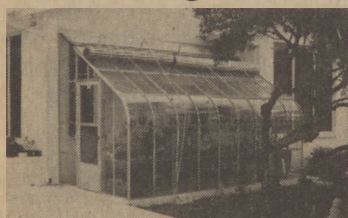
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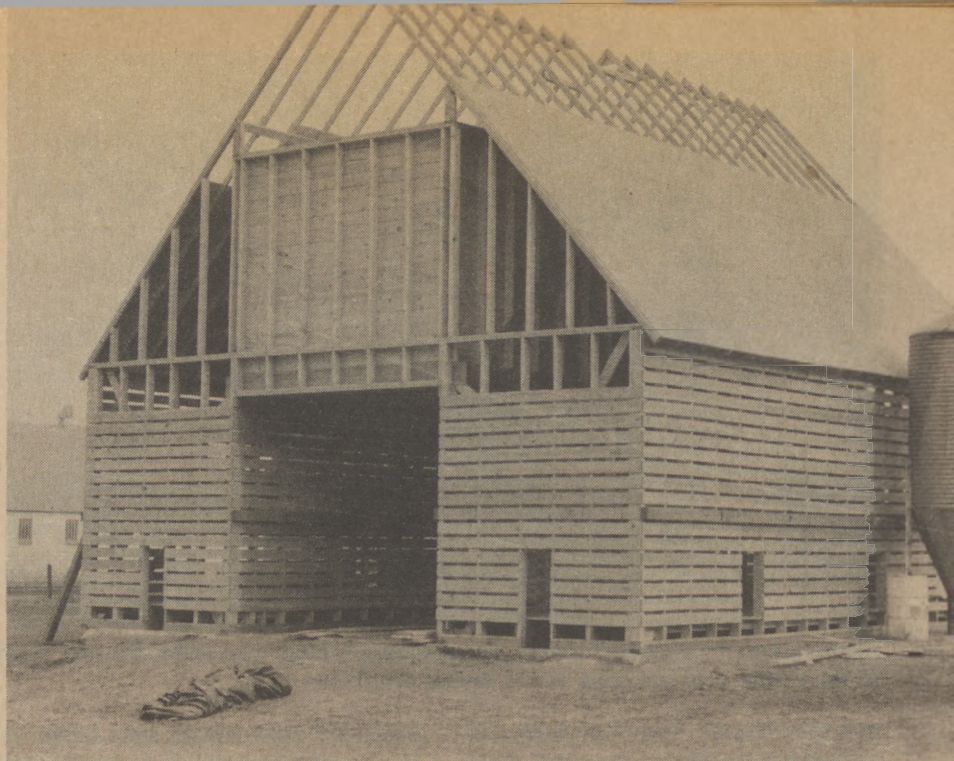


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A new corn crib may become a more common sight as farmers rediscover the advantages of ear corn.

says that in 1978 some \$1.5 billion was spent to remove excess fat from cattle carcasses at the packing plant. "It costs producers a lot of money to produce fat that has to be trimmed away," he says.

Trenkle says that the feed value of cobs is substantial. He thinks that a farmer harvesting corn that eventually is fed to his own cattle ought to harvest corn in the ear. The feed energy units per acre would be increased by 20 percent. That's equivalent to harvesting the feed value of 120 acres of shelled corn on only 100 acres, if the farmer is feeding cattle.

Market for Cobs

Trenkle also notes that cobs make excellent bedding for beef cattle. ISU buys them for bedding in research studies. The cost ranges from \$20 to \$40 per ton, says Trenkle. The price paid a farmer usually varies according to the distance from the cob buyer and the site of eventual use. A bushel of corn yields 14 pounds of cobs. A 100 bushel per acre corn crop, for example, would produce cobs worth about \$15 to \$30 per acre based on the price of \$20 to \$40 per ton. For a farmer having trouble making ends meet that's not peanuts.

Dominick Costello, Marketing Director for the Nebraska Department of

Agriculture says that cobs are primarily used as a carrier in agricultural chemicals. Walnut hulls can be interchanged with the cobs.

Warren Bloom, a Miles, Iowa hog farmer and agriculture instructor at Clinton Community College, has been studying the use of corn cobs for fuel to heat farm buildings or run alcohol plants. Bloom figures that a corn crop yielding 120 bushels per acre produces enough cobs to be equivalent to 85 to 92 gallons of fuel oil per acre. That approaches \$100 per acre worth of energy. "That's our oil well," says Bloom.

According to Floyd Herum, "Cobs could become a source of heat for residence and livestock buildings. The development of 'fluidized bed' combustors for cobs is moving along well." He foresees integrated energy systems for the farm that make use of cobs.

The sum of the various values of ear corn is starting to accumulate. "Not only is there the corn quality, but also the value of the cob," says Herum. "As we find more and more reasons to change the system, the system will change."

Dennis Demmel farms in Ogalala, Nebraska. Photos by the Center for Rural Affairs. This story first appeared in THE PRAIRIE SENTINEL and is reprinted by permission.



THE REVIEWER

WORKING WITH YOUR WOODLAND: A LANDOWNER'S GUIDE. By Mollie Beattie, Charles Thompson and Lynn Levine, University Press of New England, Hanover, New Hampshire. 1983. 310 pages. \$12.95, paperback.

by Heidi N. Brugger

Working With Your Woodland has a lot of practical information between its covers—including some financial figures for those who hope to realize economic as well as spiritual returns from their forest. What it doesn't have is an engaging style. The writing swings from the pedantic and preachy to the dry and encyclopedic. It's almost as if the informative sections were written first (and I concede that it would be hard to be personal and chatty and still cover as much ground as the authors managed to do) and then the first and the final chapters were added to give some color. Unfortunately the history and the future read like sermons or, at best, pep talks.

In spite of its stylistic problems, this text can't be beat when it comes to hitting all the bases and as such it fills a gap in forestry texts for the layman and landowner. Where I find fault is in its "hands-off" stance. Its viewpoint definitely supports the use of professionals and the text repeatedly stresses the damage one-man foresters can do. If you want to manage your woodlot by supervising what others do for you instead of handling your wood yourself, then this book is your manual.

While *Working With Your Woodland* has something for all woodland owners, it really shines when supplying answers to questions specific to New England. I hope that there are plans to provide this exhaustive type of coverage for woodlot managers in other regions of the country. ☐

THE COMPLETE BOOK OF EDIBLE LANDSCAPING. By Rosalind Creasy. Sierra Club Books, 530 Bush Street, San Francisco, California. 1982. \$25.00 large hardcover.

by Lynn Ann Ascrizzi

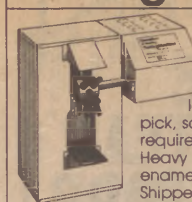
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Whether you are a beginner or a full-bloom "avant-gardener," you will find yourself repeatedly turning to *Edible Landscaping* to learn more about the beautiful food-bearing plants you want to add to home landscaping schemes. ☐

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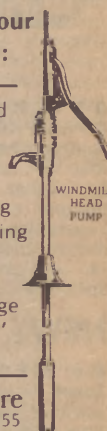
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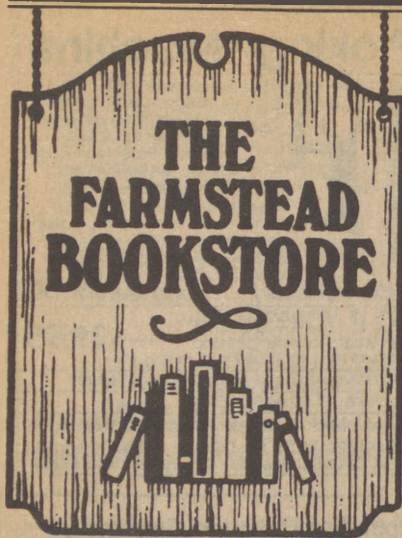
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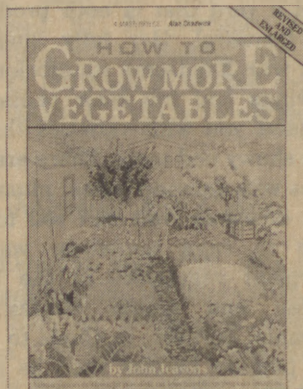
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G-28 RED AND GREEN TOMATO COOKBOOK by **Janet Ballantyne**. Plenty of recipes to help you turn too many tomatoes into tasty treats year-round. Over 125 tested recipes for soups, garnishes, casseroles--even chocolate cake. Complete with a section on raising tomatoes in case you like the recipes so much that you want to grow more "love apples." This book lets you know just how versatile a vegetable the tomato really is. Softcover\$5.95

R-67 ROOT CELLARING - THE SIMPLE NO-PROCESSING WAY TO STORE FRUITS AND VEGETABLES by **Mike and Nancy Bubel**. This book, the first devoted entirely to root cellaring, covers the subject thoroughly. It describes a variety of small-scale root cellaring techniques and gives instructions for constructing different types of cellars of varying size. The book provides ideas for country, suburban, and city root cellars. Not everyone can live in the country but, with the aid of this book, everyone can benefit from natural cold storage. 320 pages, photos, illustrations, charts, index. Hardcover\$12.95

R-52 STOCKING UP: HOW TO PRESERVE THE FOODS YOU GROW, NATURALLY edited by **Carol H. Stone**. One-third larger than the original edition, with many more illustrations and almost 100 new recipes, the new edition has expanded directions for jams and jellies with honey; for drying fruits, vegetables, and meats; and for making a variety of soft and hard cheeses. An excellent reference work on all aspects of preserving. 552 pp., illustrations. Hardcover\$19.95

G-99 ZUCCHINI COOKBOOK AND OTHER SQUASH by **Nancy Ralston and Marynor Jordan**. An attractive, easy-to-follow book packed with information on all kinds of squash--how to cook summer and winter varieties, how to can it, freeze it, dry it and store it. Two pluses are the seasoning grid, which matches vegetables with various spices and herbs, and the Zucchini Bingo, which opens up thousands of casserole combinations. Get this book and make zucchini boredom a thing of your past. Softcover\$5.95

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VR-3 SOLARSPACES: HOW [AND WHY] TO ADD A GREENHOUSE, SUNSPACE OR SOLARIUM TO YOUR HOME by Darryl J. Strickler. This practical volume opens with descriptions and photos of solarspaces in use around the country. It then provides step-by-step building instructions and working drawings that enable you to convert these possibilities into a working solarspace for your own home.
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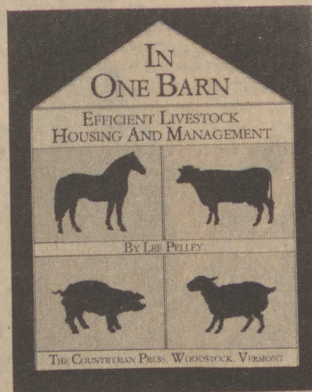
IH-19 THE COMPLETE BOOK OF TANNING SKINS AND FURS by James Churchill. A thorough approach to a lost art. Great for hunters or small stockmen seeking ways to make the most of their animals and to save money.
Hardcover\$14.95



IH-20 LOW-COST EARTH SHELTERS by Jim Eggert. Easy-to-follow instructions on building your own, brings earth-shelter technology to an affordable level. Guest houses, sheds, vacation homes and complete dwellings are presented with cost and self-sufficiency in mind.
Softcover\$7.95

IH-23 EARTH PONDS: THE COUNTRY POND MAKER'S GUIDE by Tim Matson. A comprehensive guide that includes siting, digging, sculpting, maintaining and using a country pond. A detailed book for the cost-conscious, would-be pond builder.
Softcover\$10.95

WH-1 AMERICAN FARM TOOLS FROM HAND-POWER TO STEAM-POWER by R. Douglas Hurt. An outstanding descriptive text that answers how various implements were used and explains how they came into being. Heavily illustrated, this book includes old engravings and photographs. The index makes it a good reference. A real slice of agricultural history.
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IH-22 IN ONE BARN by Lee Pelley. Homestead animals deserve good care and proper shelter is a major component of quality care. This book discusses how to orient, design, and construct or remodel a multi-purpose barn that will shelter several types of livestock under one roof.
Softcover\$11.95

SAE-1 FARM TRACTORS: 1950-1975 by Lester Larsen. Organized by year of introduction, this book reviews innovations in domestic and import tractors. It covers turbocharging, transmissions, safety, operator comfort and other important developments. Larsen, retired chief of the Nebraska Tractor Test Lab, has compiled photos and specifications for 415 tractors. Tractors are listed by manufacturer, model number, fuel, year or years built, observed maximum belt or PTO and drawbar horse power, bore and stroke, size, type of engine, engine manufacturer, gearing and speeds, fuel economy data, weights without ballast and operator sound level at 75% load.
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IH-21 THE BIG BACKYARD BUILDING BOOK by James E. Churchill. This basic text features an entire line of structures including a solar guesthouse, a sauna, a screened-in trail shelter, playhouses for kids, a greenhouse, fence-pole furniture and more. Projects can be built on a relaxed schedule and at a low cost. Includes information on carpentry, masonry, wiring, roofing and plumbing.
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IH25 THE HOMESTEADER'S MANUAL by the Editors of FARMSTEAD Magazine. From the pages of FARMSTEAD, here is a practical course in the art of self-sufficient living—complete with all the advice and how-to tips you need to save time, energy and money. The manual is filled with projects and ideas to make your country life bountiful as well as independent—building your own log cabin, dowsing for water, alternative plumbing, recycling, organic gardening techniques, and wildlife appreciation.

If you don't live in the country, **The Homesteader's Manual** will show you how you can garden inside your house or apartment, ways to insulate your home for top efficiency, and much more.

The craft enthusiast will enjoy the information on rugmaking, sewing, knitting, making jams and jellies, canning fruits and vegetables and the myriad of recipes. The woodlot owner will return again and again to the sections on clearing land, drying wood, felling a tree, criteria for selecting trees to cut and chain saws.

The Homesteader's Manual marries the best of old and new self-sufficient ways—whether you are homesteading from scratch or just looking for time and money saving ideas.

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Livestock

R-13 RAISING THE HOMESTEAD HOG by Jerome D. Belanger. Raise a pig in the backyard? Why not, challenges the author, as he explains that properly maintained pigs are not smelly or dirty. It covers the full range of hog raising including feeding, diseases and related management topics. 224 pp. 36 illustrations.
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G-43 RAISING MILK GOATS THE MODERN WAY by Jerry Belanger. Complete up-to-date coverage with illustrated chapter on selection, housing, fencing, breeding, kidding, goat milk products and more. Plenty of how-to diagrams and photos.
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R-16 THE DRAFT HORSE PRIMER by Maurice Telleen. For people who want to learn the fundamentals of using work horses on the farm. This book clearly illustrates the economy of using draft horses and explains the basics: how to buy a draft horse; how to feed and care for the animals; how to find and repair horsedrawn machinery; how to harness and hitch a team; and how to breed them. 272 pp. with illustrations and photos.
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R-22 CHICKENS IN YOUR BACKYARD: A Beginner's Guide by Rick and Gail Luttmann. Technical details on housing, feeding, incubating, butchering and raising chickens are given in an easy, readable manner. Illustrations.
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G-24 RAISING A CALF FOR BEEF by Phyllis Hobson. Enjoy superior beef for less than half the supermarket cost. In 15-18 months you can have 600-700 lbs. of beef with just 1/2 hour of care per day. Includes complete information for care, feeding and housing. Also complete photos of home butchering. 128 pp., 100 illustrations.
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FD-1 RABBITS FOR FOOD AND PROFIT by Lee Schwanz. A compilation from many excellent sources...this book is very valuable if you already know how to breed rabbits. The reader will profit from the economics and marketing tips stressing that rabbit raising is a serious business requiring top management--it is not a get-rich-quick scheme.

An added attraction--more than 30 recipes for mouth-watering rabbit dishes!--Jan Willem.

Softcover.....\$7.50



R-55 RAISING RABBITS by Ann Kanable. Covers all aspects of raising rabbits on a small scale: housing, stock, breeding, feeding and health care. Discussions of meat production and use of by-products such as pelts are included. "Mrs. Kanable makes useful suggestions for using rabbit wastes and for combining a rabbitry with earthworm raising and composting--suggestions that remind the prospective rabbitier that this small stock animal is a large contributor to the small farmstead," said Ellen LaConte in her review (Farmstead, No. 35).

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Veterinary Guides

R-26 A VETERINARY GUIDE FOR ANIMAL OWNERS by C.E. Spaulding, D.V.M. Here's a book that's long been needed on the farmstead--a handbook for specific preventive measures and cures for all common pet and livestock ailments. It's organized by animal, and each chapter gives health-care information for that particular animal. A book that animal owners will use time and time again. 432 pp. 60 illustration.

Hardcover.....\$16.95

G-25 KEEPING LIVESTOCK HEALTHY: A VETERINARY GUIDE by N. Bruce Haynes, D.V.M. Dr. Haynes' emphasis is on prevention and early detection of farm animal disease problems. For horses, cows, pigs, sheep and goats he provides information on how and what to feed, shelter, reproduction, diseases and much more. 160 pp., 70 illustrations.

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Gardening



FP-1 WORMS EAT MY GARBAGE by Mary Appelhof. How to set up and maintain a red worm composting system that will recycle kitchen food waste, save energy, produce fertilizer for house and garden plants, and more. A better, more responsible way to use the wastes we generate. This book helps you devise a plan that takes into account your time, your garden needs and worm power.

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G-16 THE JOY OF GARDENING by Dick Raymond. A companion to the television series of the same name, this volume contains the best of Raymond's gardening wisdom. Includes chapters on wide rows, preparing the soil, starting plants and stopping weeds, green manures, root cellaring, and more. Full of color photographs, illustrations, and any gardener, beginner or expert.

Softcover.....\$17.95



R-98 RODALE'S COLOR HANDBOOK OF GARDEN INSECTS by Anna Carr. Written for gardeners, farmers, and amateur naturalists, this book combines the systematic approach of a field guide with the kinds of practical information on insect control found in the best garden-pest manuals and insect surveys. 344 color photos.

Softcover.....\$10.95

IH24 EDIBLE LANDSCAPING by Rosalind Creasy. Both the beginner and the 'avant-gardener' will repeatedly turn to **Edible Landscaping** to learn more about beautiful food-bearing plants and what to add to home landscaping schemes.

Rosalind Creasy's fully illustrated book with handsome watercolors, ink drawings and full color photos list plant varieties that are both showy and tasty. The chapter, "Encyclopedia of Edibles," is a book in itself--Lynn Ann Ascrizzi.

Softcover.....\$14.95

R-85 BASIC ORGANIC GARDENING by Marjorie B. Hunt. A primer including all the necessary information for those who are new to organic methods. How to plant a first garden; prepare the soil and the site; work with compost, manure and other organic fertilizers; plant seeds or transplants; care for plants; control bugs and more.

Softcover.....\$6.95

IH-6 THE SCYTHE BOOK by David Tresemer, Ph.D. The age-old scythe is more economical than a machine, and perhaps as productive for the small scale grain grower. Tresemer covers everything from growing to harvesting to storing. Sure to be a classic. Softcover\$6.95

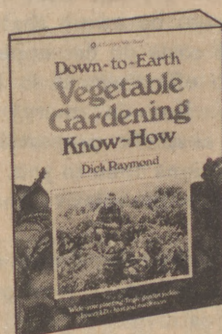


IH-7 SPLITTING FIREWOOD by David Tresemer. Another timeless work by the author of *The Scythe Book*, here "Tresemer bridges the practical and metaphysical aspects of wood splitting, creating a satisfying and pleasing whole." Covering tools, economics, what and where to split, technique and more; the pages transform an every day chore into vital action of being. Softcover\$6.95

VR-1 BACK AT THE FARM: RAISING LIVESTOCK ON A SMALL SCALE by Barbara and Dick Deming. This book addresses both basic and advanced questions people ask before and during the raising of homestead animals. Written in an easy-to-follow style, it presents plenty of down-to-earth information on the nature, selection, cost and care of common farm stock--horses, rabbits, goats, chickens, sheep, pigs, cattle and fowl. Its emphasis on efficiency and profitability makes this guide fundamental for anyone who wants to raise farm animals. Hardbound\$17.95

IH-18 THE SHEEP BOOK: A HANDBOOK FOR THE MODERN SHEPHERD by Ron Parker. This is probably the best and most complete single book on the market for both experienced shepherds and newcomers to sheep. Written to follow the life cycle of sheep and shepherd, it includes information on flushing, breeding, lactation and weaning of the next lamb crop. The "Appendixes" cover marketing, drugs, sheep economics, nutritional requirements and sources for everything from books to custom tanning. Hardbound\$19.95

G-41 DOWN-TO-EARTH VEGETABLE GARDENING KNOW-HOW by Dick Raymond. "I want to make gardening as fun, easy and successful as I can for the backyard gardener. I want to help people enjoy life, to help them grow as I have...both as gardeners and as human beings." Dick Raymond's best-selling gardening favorite is now available in a new revised edition. Triple your yield, cut weeding time, stretch your season, improve soil, brew home bug remedies that work: it is never too late to start gardening for independence. Softcover\$7.95



R35 ANYTHING GROWS. By Sheryl London. No one place is absolutely perfect for a garden but gardens can happen almost anywhere--and thrive too. In this spirited book, you will learn how to have fun and food no matter where or how you garden. The book is loaded with ingenious ways to grow more food in front yards, backyards, side yards, rooftops, in the suburbs, in the city--even in parking lots. You'll also learn how to get more out of tight spots by using dwarf varieties, careful planning and intensive planting. Softcover\$9.95

G-17 BUILDING SMALL BARNs, SHEDS AND SHELTERS by Monte Burch. A confidence-building book, this text gives a thorough background in basic building skills and follows up with an attractive selection of plans for various types of outbuildings. Softcover\$10.95

R70 THE ENCYCLOPEDIA OF NATURAL INSECT & DISEASE CONTROL. Edited by Roger B. Yepsen Jr. This is the most comprehensive guide to protecting plants--vegetables, fruit, flowers, trees and lawns--without toxic chemicals. A revised and reordered version of *Organic Plant Protection*, this book can serve as your guide to creating and maintaining the balance of nature on your piece of land. And for most pests and diseases, this encyclopedia gives several measures, not just one. It also includes ways to attract beneficial insects and how to encourage them to do their best work as a means of preventing problems before they start. Hardbound\$21.95

F-1 FARMSTEAD'S SOLAR GREENHOUSE I PLANS by Conrad Heeschen. By the author "Build Your Own Low-Cost Greenhouse," in the Winter 1983 issue, these five pages of architectural blueprints will help build that low-cost greenhouse. Solar professional Conrad Heeschen has designed a greenhouse particularly suited to northern climates. The blueprints include everything you need to get started: foundation details; framing elevations, sections and details; tool and materials lists; glazing insulation and installation; heat storage; alternatives for smooth incorporation into your existing home; and more. Blueprints\$15.95

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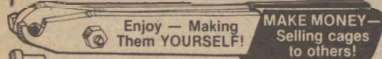
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THE KINDLING BOX ALTERNATIVE ENERGY NEWS

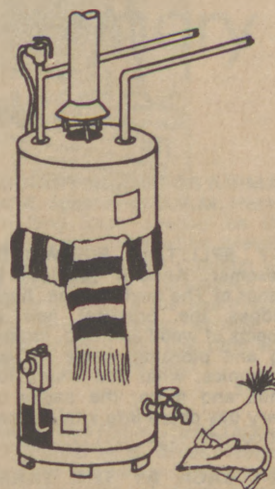
Out the Window

In most homes, 15 to 20 percent of the total wall area is window. That can translate to a 20 to 80 percent heat loss through those windows. By now you are probably aware that there are many types of window treatments you can use to prevent heat loss, but you may not be aware that window treatment costs do not appear to be related to effectiveness in heat-loss reduction. Nor do energy savings relate to aesthetic properties of the various options open to you.

Here are some relative findings:

1. Non-bulky roller shades are often as efficient as bulkier, less convenient window treatments.
2. Roller shades can save twice as much energy if you use edge sealing devices.
3. Homemade Roman shades conserve energy on a par with commercially quilted shades for about half the cost.
4. All draperies, including insulating draperies, give little protection against heat loss.
5. Movable, levelor-type blinds—even when advertised as energy-conserving—may not be effective heat-loss barriers.
6. Inexpensive polyethylene films can be better heat-loss barriers than many costlier and less convenient window treatments.
7. Most curtains don't increase energy savings—even when used in combination with another window treatment. What they do is make the window look nicer.
8. A wooden frame shutter with an insulated core seems to be no more effective than four-mil polyethylene film when it comes to heat-loss reduction.

--North Dakota Farm Research



Insulate Your Water Tank

There's one appliance that needs insulation all year long--your hot water heater. Wrapping insulation around your water heater can cut your annual hot water bill as much as 10 percent.

Before you insulate, check the tank for leaks--wet insulation is useless--and make any necessary repairs. Also check the setting on your heater's thermostat--140 degrees F. if you have a dishwasher; otherwise, 120 degrees.

Many building supply firms, hardware stores and even some utility companies carry water heater insulation kits. These kits contain a vinyl-faced insulation wrapper, precut fastener tape, and detailed instructions.

--University of Delaware

Last of a Line

The National Center for Appropriate Technology in Butte, Montana has published the last of its series of 13 booklets related to appropriate technologies. **Homemade Electricity** provides a good introduction to small-scale hydro, wind or photovoltaic systems. It includes a checklist of

preliminary considerations and advice and cautionary notes from system users and operators based on their experiences.

Window Insulation contains advice on how to choose and operate various window-insulating devices, how to avoid problems with do-it-yourself projects and how to estimate costs and savings.

These booklets--and others in the series--are available from your State Energy Office, and the NCAT. There are a limited number of free copies; once these run out, the series will be available for a charge from the Government Printing Office. Canadian inquiries should be directed to the GPO, Washington, D.C. 20402

Cool Savings

How much energy can you save by doing cold water laundry? For a standard size machine, the average hot water use per cycle can range from 20 gallons on a hot wash/warm rinse selection to no hot water for a cold wash/cold rinse selection. Average consumption over the course of the year using a variety of settings for different laundry loads works out to about 13 gallons of hot water for both wash and rinse, it is possible to save the equivalent of 700 kilowatt hours, or about \$60 at 8 1/2 cents a kWh.

--Ag Review Northeast

Got the Munchies

What is that chewing sound in the woodpile? Wood-boring insects, often responsible for killing timber, are the likely noisemakers. The noises persist when warm temperatures stimulate the insects' chewing activity. Activity and the noises stop as temperatures drop and the insects enter a period of rest or dormancy. But the "silent" wood becomes "noisy" again when wood is brought from cold, higher elevations to warm, lower elevations or when the wood is brought indoors in winter and the borers become active again.

To avoid the bother, bring in only the amount of borer-infested wood to be used in a 48-hour period.

--Utah State University
Extension



Wind Blade Bugs

A wind-turbine manufacturer noticed that the performance of his devices tended to fall off notably over dry spells, then spring back following a major shower. Could it be due to bugs? He posed the question to Texas Tech University's J. Walt Oler. And the Lubbock-based mechanical engineer's new computer modeling data indeed support the manufacturer's suspicions.


Oler developed computer models to simulate the rather minor change in blade-surface roughness that might result from the buildup of insect bodies. He used the models in calculations to determine how the re-configured turbine blades--having diameters of 32, 100 and 200 feet--would affect energy-conversion efficiency. And he was rather surprised to find the devices' annual energy output could drop 20 percent or more as a result of the bugs' impact. But at least for small to medium-sized systems, Oler believes there may be a cost-effective solution--hosing down buggy blades.

--Science News, Vol. 124

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Livestock

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IRISH DEXTER CATTLE-Send SASE to Mark & Marge Davis, RD 1, Box 87, Ellendale, DE 19941. WG8P

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REG. KOMONDOR LIVESTOCK GUARD DOG pups. Francis Manner, 207-223-4791, Swanville Rd., Frankfort, ME 04438. Fa1p

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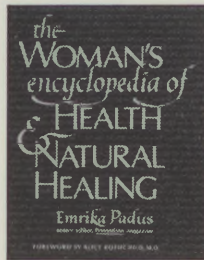
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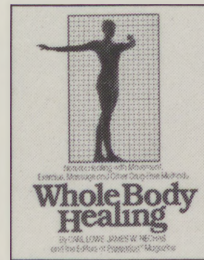
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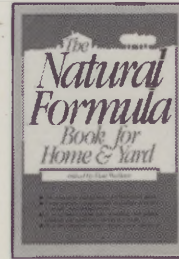
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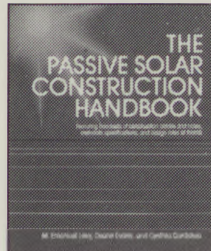
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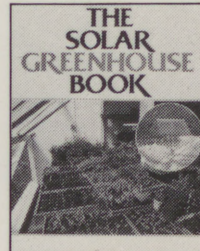
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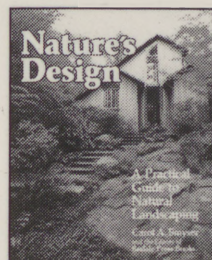


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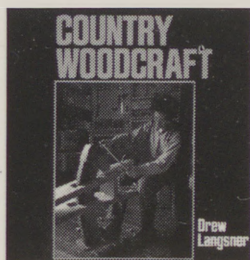
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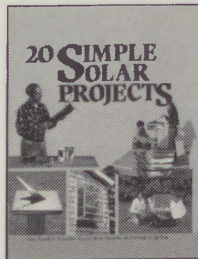
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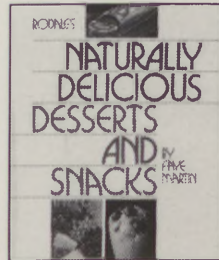
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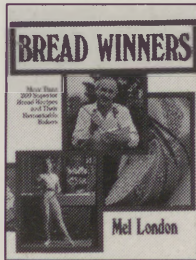
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