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rural electric news

March, 1975

Loan Study Shows Capital Needs Rise

Sharply increased capital needs in the generation and transmission area will push the total for new funds needed by the nation's electric cooperative systems to \$8.1 billion for the 18-month period which ends June 30, 1976.

A recent National Rural Electric Cooperative Association loan fund survey shows that anticipated applications to Rural Electrification Administration (REA) and other lending sources will sharply increase for the second straight year.

The survey shows that electric cooperatives plan to seek loans totaling nearly \$4.1 billion in the period January 1-June 30 of this year, and an additional \$3.0 billion in the fiscal year which ends June 30, 1976. Together with the backlog of loans on hand at REA on Jan. 1, 1975, the total capital need soars to \$8.1 billion. This compares with \$4.6 billion for the survey period last year. The comparable figure two years ago was slightly less than \$2.3 billion.

The survey showed that Illinois electric cooperatives will need a total of \$140 million in loan funds during the period. (Rural Electric Newsletter)

Anti-Monopoly Coalition Urged

The formation of a coalition of farmers and consumers was urged by speakers in Washington at Consumer Assembly '75 in order to combat what was seen as increasing monopoly control of America's food and energy industries.

The annual assembly of the Consumer Federation of America, largest consumer organization in the country, drew an attendance of more than 500 persons. The number included about 100 farmers, meeting formally with the consumer group for the first time.

Assembly speakers charged middlemen, particularly the large food processing companies and retail chains with responsibility for recent drops in prices paid farmers for grains and meat at the same time consumers faced rising retail prices. (Rural Electric Newsletter)

Rate Hikes Hit New High in 1974

In its February 1 issue, *Electrical World* reported that electric rate increases approved for investor-owned utilities in 1974 reached a new high for the seventh consecutive year, amounting to \$2.4 billion granted, compared to \$3.6 billion requested, according to a report published by Ebasco Services, Inc.

The amount granted was twice as high in 1974 as in 1973. The collective total of increases pending as of December 31, for which no regulatory approval had yet been received, amounted to \$2 billion. This is 30-percent higher than at the end of 1973.

Electric Utility R & D Projects Recommended

Funding of \$108 million for research and development projects in 1975 has been recommended by the board of directors of the Electric Power Research Institute (EPRI).

The proposed allocations include \$43 million for nuclear power; \$27 million, fossil fuels; \$22 million, advanced systems; \$18 million, transmission and distribution; \$9 million, energy systems, environment and conservation.

EPRI, sponsored by private, public and cooperative utilities, announced that the value of the 320 research projects in progress or under negotiations exceeds \$220 million and that \$19 million in research was approved recently for 27 new projects and eight additions to one previously approved. (RENS)

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COVER—Winter's last magic veil covers the countryside at New Salem Park near Petersburg, home of Menard Electric Cooperative. Spring weather, we hope, is only a few days away.

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America Should Use More Electricity, Not Less

We've said it before and we're going to say it again—what this country needs is to use more electric power, not less.

Many experts believe that the increased use of electricity could be the key to solving our energy problems.

One energy official who voices this opinion is Arthur E. Peltosalo, vice president and general manager of General Electric Company's Power Systems Sales Operations.

Speaking before the Electric League of Indiana on the theme "Electricity—The Key," Peltosalo said a key to the solution of the energy problems which the country is facing is the use of more electricity right now, although massive investments and technological breakthroughs with some of the more exotic power sources may prove useful in the long run.

According to Peltosalo, increased use of electricity, generated primarily from abundant domestic fuel supplies of coal and uranium, can conserve the nation's scarce fuel resources and help restore the environment.

To illustrate where the use of more electricity could conserve scarce fuels, Peltosalo pointed to the electric heat pump. Recent studies have shown that the heat pump needs less energy than a fossil furnace and supplies twice the heat equivalent of the electric power needed for operation.

Another area for increased use of electric energy is transportation. Peltosalo referred to an electric rapid transit system in Philadelphia where it was estimated riders conserved more than five-million gallons of gasoline last year by riding the trains rather than driving their cars.

Also, electric boilers for steam and hot water needs in industrial and commercial markets operate at 99-percent efficiency and offer non-polluting, quiet operation. One utility company, according to Peltosalo, is testing electric boilers for the city's school system to replace coal-fired equipment which has caused an air pollution problem.

Increased use of electricity will also protect and restore the environment since electric power is the only form of energy which does not pollute at the point of use. "In fact," Peltosalo said, "environmental cleanup projects such as modern sewage plants to restore waste water to higher standards and steel recycling plants will require additional electricity to operate.

The growth of electric power has been essential to the economic growth of the nation, Peltosalo added. To continue producing the goods and services which have enabled Americans to enjoy the highest standard of living in the world will require more electricity.

With its ability to be generated by a variety of fuels, many of which have few other uses, electric power will play a major role in helping this country to move toward energy independence.

Tip Top Notcher



“How about doing a story on Tip Top Notcher,” G. A. Moody, power use adviser for Adams Electrical Co-Operative, Camp Point, suggested.

“What’s a Tip Top Notcher?” I asked as I braced myself for the punch line of what I knew had to be some sort of joke.

“A big hog buried over near Ripley,” Moody replied.

“Oh,” I said noncommittedly. “What could be so interesting about a dead hog?”

Moody wasn’t sure, but he did know the hog was buried in a roadside park between Ripley and Mt. Sterling. It was a large hog that had won some kind of prize and there was a tombstone marking where it was buried.

Moody said to get more information he would have to contact Milo D. Seckman, superintendent of highways for McDonough County. Seckman’s grandfather owned the hog.

I told Moody while he was doing that, I would check with the Department of Agriculture and the Brown County Department of Highways.

I soon found that asking questions about Tip Top Notcher wasn’t

easy. The more calls I made the easier it was to face the giggles and the emphatic “you want information on what?”

And when I saw a copy of a newspaper clipping with a bold headline, “Picnic Grove To Hail Hog,” I realized someone else must have faced the same chuckles and snickers.

Information from Moody, plus a phone conversation with Dan Parrish, managing editor of *Duroc News*, a publication of the United Duroc Swine Registry located in Peoria, finally gave me all I needed to know about Tip Top Notcher.

Going through the information, I found that Tip Top Notcher and his owner were pioneers in Duroc hog history.

George W. Seckman of Mt. Sterling was one of the pioneer Duroc breeders prior to 1900 when the large red hogs started leading the swine world by its curly tails.

Tip Top Notcher weighed 1,120 pounds and was one of the largest hogs ever raised in Brown County.

His claim to fame, however, was the fact that he was the grand champion boar at the Louisiana Pur-

chase Exposition held in St. Louis in 1904.

Hogs from Missouri, Illinois, Nebraska, Ohio, Iowa, Indiana, Kansas and Tennessee gathered for the show. Many still say that the Duroc breed at the exposition set the pace for the large type hog that has been in demand ever since.

If so, the grand champion from Brown County was at that time the epitome of the Duroc breed and in his own right a “super hog.”

In 1906, the elder Seckman sold Tip Top Notcher for \$5,000. But sentimentally attached to the big hog, Seckman repurchased it in 1909 after the hog had become crippled. A few months later the big boar died and was buried on the Seckman farm.

The United Duroc Swine Registry is credited for constructing the roadside memorial.

The Duroc Registry purchased the two-acre tract and deeded it to the state which in turn made it into a picnic area.

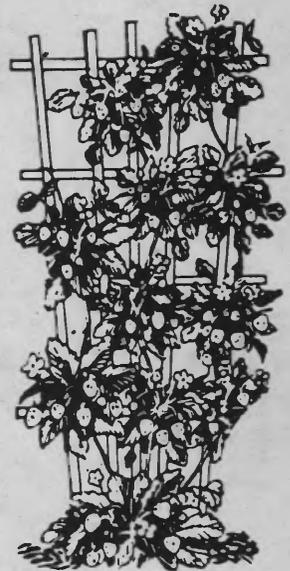
A small stone memorial marks the gravesite of Tip Top Notcher. A boar who truly earned his niche in Illinois hog history.

Pick Strawberries In 90 Days

GIANT EASY TO TRAIN CLIMBING STRAWBERRIES

**Everbearing.
Produce all Summer
Until Frost.**

5 **\$1.98**
PLANTS Only



- ★ Ever-bearing Perennials
Grow Year After Year!
- ★ Can Be Trained on Any Trellis,
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Climbing Strawberry plants are shipped to arrive in perfect condition for planting — to grow and produce berries or plants will be replaced absolutely FREE anytime within 3 months!

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STRAWBERRIES
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It's true! A beautiful climbing strawberry. A strawberry plant that produces delicious, honey-sweet red strawberries the whole way up! Read these facts and learn how you can grow these beautiful ornamental plants that produces berries that you can pick from the vine.

Imagine the curiosity, the envy of your neighbors as they watch you grow strawberries on a pole, trellis or fence. Imagine the interest and excitement as they watch this richly foliated plant reaching vigorously upward. Imagine your own delight as you watch enticing bright red strawberries appear. Just picture yourself leisurely walking through your garden picking real red strawberries from your own exotic climbing strawberry plants . . . picking delightful tasting strawberries right off the vine . . . without having to wash off the dirt . . . and popping them into your mouth to enjoy their vine-fresh flavor!

CLIMBING STRAWBERRIES ARE PERENNIALS
Ever-Bearing — Produce All Summer Until Frost

You don't have to buy and plant these Climbing Strawberries every year! Because they are hardy perennials, they'll grow year after year. And each spring they'll produce even more lustily, increasing in length quickly and forming 5 to 6 rosettes at intervals. These rosettes produce clusters of flowers from which the berries fruit profusely this year. In turn, the rosettes produce more runners which bear more flowers and fruit. A prolific, splendid plant to enjoy for years and years. It is truly everbearing.

EASY TO GROW

These plants have proven their ability to thrive and produce and withstand severe winters. And you don't need a lot of space to grow them in . . . only a couple of square feet of ground per plant! Imagine — a climbing strawberry plant from only 2 square feet of ground! Amazing, but true. Planting and care are simple and full directions come with your order.

© Climbing Strawberries 1975

If ordering from Canada, plants will be shipped by our Canadian Office.

★ STRAWBERRIES FROM SPRING UNTIL FROST ★
Offer Will Not Be Repeated This Year.

Climbing strawberries grow and bear succulent berries until killing frost. Planted in early spring, these climbing strawberry plants start producing berries around July and continue to produce week after week, until frost. You can enjoy the firm texture, tempting fragrance and delightful taste of these magnificent strawberries for months. But that's not all! These plants are as beautiful as they are practical. Not only do they produce delicious fruit, but they also help to dress up your garden with beautiful greenery decked generously with bright red berries. A splendid ornamental plant with luxurious wax-green foliage. Act today!

The Climbing Strawberries offered in this ad are cultivated exclusively for us and are available only through this advertisement and cannot be purchased anywhere else in the United States.

PLANTS WILL BE SHIPPED IN TIME FOR PROPER PLANTING IN YOUR AREA. YOU WILL BE PICKING BERRIES 90 DAYS AFTER YOU PLANT THEM.

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5 Plants Only \$1.98
10 Plants Only \$2.98

Please rush me my CLIMBING STRAWBERRY PLANTS.
5 for \$1.98 or 10 for \$2.98.

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Enclosed is \$

Name

Address

City State Zip

(Add Sales Tax Where Applicable)

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OVER 350 VARIETIES TO CHOOSE FROM

Planting instructions included in each order. Every plant will be labeled.

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FLOWERING SHRUBS—1 or 2 Years Old

Crepe Myrtle—Red, Purple, Pink, White, 1 to 2 ft.	\$.79 ea.
Spirea Van Houttei—White, 1.2 ft.	\$.59 ea.
Spirea Reensiana, 1 to 2 ft.	\$.49 ea.
Weigela—Red or Yellow, 1 to 2 ft.	\$.49 ea.
Weigela—Var. or Pink, 1.2 ft.	\$.49 ea.
Althea—Red or Purple, 1 to 2 ft.	\$.49 ea.
Althea—Pink or White, 1 to 2 ft.	\$.49 ea.
Forsythia—Yellow, 1 to 2 ft.	\$.39 ea.
Pink Spirea, 1 to 2 ft.	\$.49 ea.
Pink Flowering Almond, 1 to 2 ft.	\$.69 ea.
Tamarix—Pink, 1 to 2 ft.	\$.49 ea.
Bush Honeysuckle—Red, Pink, White, 1 to 2 ft.	\$.49 ea.
Red Flowering Quince, 1 to 2 ft.	\$.69 ea.
White Flowering Quince, 1 to 2 ft.	\$.29 ea.
Persian Lilac—Purple, 1 to 2 ft.	\$.69 ea.
Old Fashioned Lilac—1 to 2 ft.	\$.99 ea.
Baldil Wreath Spirea, 1 to 2 ft.	\$.79 ea.
Hydrangea P.G., 1 to 2 ft.	\$.49 ea.
Oak Leaf Hydrangea, 1/2 to 1 ft.	\$.49 ea.
Deutzia—White, 1 to 2 ft.	\$.49 ea.
Deutzia—Pink, 1 to 2 ft.	\$.49 ea.
Mokorange—White, 1 to 2 ft.	\$.49 ea.
Sweet Shrub, 1 to 2 ft.	\$.49 ea.
Rose of Sharon, 1 to 2 ft.	\$.29 ea.
Red Ozier Dogwood, 1 to 2 ft.	\$.49 ea.
Pussy Willow, 1 to 2 ft.	\$.49 ea.
Pussy Willow, 4 to 6 ft.	1.49 ea.
Russian Olive, 1 to 2 ft.	\$.69 ea.
Russian Olive, 2 to 3 ft.	1.29 ea.
Red Barberry, 1 to 2 ft.	\$.79 ea.
Jap Snowball, 1 to 2 ft.	\$.79 ea.
Red Snowberry, 1 to 2 ft.	\$.49 ea.
White Snowberry, 1 to 2 ft.	\$.49 ea.
Spiraea, Anthony Waterer—Red, 1 ft.	\$.69 ea.
French Lilac—Red, White, Purple, 1 to 2 ft.	1.29 ea.
Scotch Broom, 1 to 2 ft.	\$.49 ea.
*Hypericum, 1 ft.	\$.39 ea.
Spice Bush, 1 to 2 ft.	\$.49 ea.
Butterfly Bush—Purple, 1 to 2 ft.	\$.99 ea.
Butterfly Bush—Pink, 1 to 2 ft.	\$.99 ea.
Vitis—Purple, 1/2 to 1 ft.	\$.49 ea.
Green Barberry, 1 to 2 ft.	\$.39 ea.
Azalea—White, Purple, Red or Pink, 1/2 to 1 ft.	\$.69 ea.
*Rose Acaia, 1 ft.	\$.49 ea.
*Red Chokeberry, 1 to 2 ft.	\$.29 ea.
*Black Chokeberry, 1 to 2 ft.	\$.29 ea.
*Hydrangea Arborvitae—1 to 2 ft.	\$.29 ea.
Spice Bush, 1 to 2 ft.	\$.29 ea.
Winter Honeysuckle, 1 to 2 ft.	\$.49 ea.
Arrowwood Viburnum, 1/2 to 1 ft.	\$.59 ea.
Witchazel, 1 to 2 ft.	\$.99 ea.
*American Elder, 1 to 2 ft.	\$.49 ea.
*Opsson Haw, 1 to 2 ft.	\$.99 ea.
False Indigo—Purple, 1 to 2 ft.	\$.49 ea.
Burning Bush, 1 ft.	1.29 ea.
Flowering Pomegranate, 1/2 to 1 ft.	\$.79 ea.

FLOWERING TREES—1 or 2 Years Old

Magnolia Grandiflora, 1/2 to 1 ft.	\$.49 ea.
Magnolia Niagaria, 1 to 2 ft.	1.99 ea.
Magnolia Rustica Rubra, 1 to 2 ft.	1.49 ea.
Mimos—Pink, 2 ft.	\$.29 ea.
Mimos—Pink, 3 to 4 ft.	\$.79 ea.
Mimos—Pink, 4 to 6 ft.	1.49 ea.
American Red Bud, 2 to 3 ft.	\$.49 ea.
American Red Bud, 4 to 6 ft.	1.49 ea.
White Flowering Dogwood, 2 3/4 ft.	\$.69 ea.
White Flowering Dogwood, 4 6 ft.	1.99 ea.
Pink Flowering Dogwood, 1 ft.	1.29 ea.
Pink Flowering Dogwood, 2 ft.	2.49 ea.
Pink Flowering Dogwood, 3 to 5 ft.	4.49 ea.
Golden Raintree, 1 to 2 ft.	\$.99 ea.
Golden Raintree, 3 to 4 ft.	2.99 ea.
Golden Chain Tree, 1 to 2 ft.	\$.99 ea.
Smoke Tree, 1 to 2 ft.	1.49 ea.
Purple Leaf Plum, 1 to 2 ft.	\$.99 ea.
Purple Leaf Plum, 2 to 3 ft.	1.49 ea.
Purple Leaf Plum, 4 to 6 ft.	2.99 ea.
Flowering Peach—Red or Pink, 1 to 2 ft.	1.49 ea.
Flowering Peach—Red or Pink, 2 1/2 to 4 ft.	1.99 ea.
Peppermint Flower, Peach, 2 1/2 to 4 ft.	1.69 ea.
Dof. Pink Flowering Cherry, 3 to 5 ft.	4.99 ea.
Flowering Crab—Red or Pink, 2 to 3 ft.	2.69 ea.
Chinese Red Bud, 1 to 2 ft.	\$.59 ea.
*Tree of Heaven, 3 to 5 ft.	\$.99 ea.
Dwarf Red Buckeye, 1/2 to 1 ft.	\$.79 ea.
Magnolia Soulangiana, 1 to 2 ft.	1.99 ea.
Weeping Peach—Red or Pink, 1 ft.	\$.99 ea.
Weeping Peach, Red or Pink, 2 1/2 to 4 ft.	1.99 ea.
White Flowering Peach, 2 1/2 to 4 ft.	\$.99 ea.

*White Fringe, 2 to 3 ft.	1.29 ea.
Japanese Flower, Cherry, 3 to 5 ft.	4.49 ea.
European Mountain Ash, 3 to 4 ft.	2.99 ea.
Paul's Scarlet Hawthorn	4.99 ea.
Red Blooms, 3 to 5 ft.	4.99 ea.
*Sweet Leaf Cucumber, 3 to 4 ft.	1.99 ea.
*Paw Paw, 3 to 5 ft.	1.29 ea.
*Sourwood, 2 to 3 ft.	\$.99 ea.
Yellow Buckeye, 1 to 2 ft.	\$.59 ea.
Dwarf Hawthorn, 1/2 to 1 ft.	\$.99 ea.
Dowry White Buckeye, 1/2 to 1 ft.	\$.69 ea.
Red Flowering Dogwood, 1 ft.	1.49 ea.
Red Flowering Dogwood, 2 ft.	2.49 ea.
Red Flowering Dogwood, 3 to 4 ft.	4.49 ea.
5-N-1 Flowering Crab, 3 ft.	4.99 ea.
Red Leaf Peach, 2 to 3 ft.	1.49 ea.

SHADE TREES—1 or 2 Years Old

Silver Maple, 3 to 4 ft.	\$.69 ea.
Silver Maple, 4 to 6 ft.	1.49 ea.
Chinese Elm, 2 to 3 ft.	\$.69 ea.
Chinese Elm, 4 to 6 ft.	1.49 ea.
Green Weeping Willow, 2 to 3 ft.	\$.49 ea.
Lombardy Poplar, 4 to 6 ft.	1.49 ea.
Catalpa Tree, 2 to 3 ft.	\$.49 ea.
Ginkgo Tree, 1 to 2 ft.	\$.99 ea.
Ginkgo Tree, 3 to 5 ft.	2.99 ea.
Pink Oak or Red Oak, 2 to 3 ft.	1.29 ea.
Pink Oak or Red Oak, 3 to 5 ft.	1.99 ea.
Willow Oak or Scarlet Oak, 2 ft.	\$.99 ea.
Willow Oak or Scarlet Oak, 3 to 5 ft.	1.99 ea.
Lombardy Poplar, 1 to 2 ft.	\$.19 ea.
Lombardy Poplar, 2 to 3 ft.	\$.29 ea.
Lombardy Poplar, 3 to 4 ft.	\$.49 ea.
Lombardy Poplar, 4 to 6 ft.	\$.79 ea.
Faassen Red Leaf Maple, 3 to 5 ft.	4.99 ea.
Sycamore, 3 to 4 ft.	\$.79 ea.
Sycamore, 4 to 6 ft.	1.49 ea.
*Sugar Maple, 2 to 3 ft.	3.69 ea.
*Sugar Maple, 3 to 5 ft.	3.69 ea.
Green Weeping Willow, 2 to 3 ft.	1.59 ea.
Sweet Gum, 4 to 6 ft.	4.29 ea.
White Birch, 2 to 3 ft.	\$.99 ea.
White Birch, 4 to 6 ft.	2.99 ea.
Tulip Tree, 2 to 3 ft.	\$.39 ea.
*Tulip Tree, 3 to 4 ft.	1.69 ea.
Crimson King Maple (Pat. No. 735), 3 to 5 ft.	4.99 ea.
Sunburst Elm (Pat. No. 1313), 4 to 6 ft.	5.95 ea.
Cut Leaf Weeping Birch, 3 to 5 ft.	4.99 ea.
Silver Variegated Maple, 3 to 5 ft.	4.99 ea.
Schwedler Maple, 3 to 5 ft.	4.99 ea.
*Yellow Wood, 2 to 3 ft.	\$.99 ea.
Canoe Birch, 3 to 4 ft.	4.49 ea.
White Ash, 3 to 4 ft.	\$.59 ea.
Green Ash, 3 to 4 ft.	3.59 ea.
Persimmon, 1 to 2 ft.	\$.79 ea.
Dawn Redwood, 1 to 2 ft.	2.49 ea.
Honey Locust, 3 to 4 ft.	3.99 ea.
Morac Locust, 4 to 5 ft.	4.99 ea.
Koranic Coffee Tree, 1/2 to 1 ft.	\$.79 ea.
*American Linden Tree, 2 ft.	\$.99 ea.
*American Linden Tree, 3 to 4 ft.	1.99 ea.
Skyline Locust (Pat. No. 1619), 4 to 6 ft.	5.49 ea.
Sassafras, 1 to 2 ft.	\$.29 ea.
Sassafras, 2 to 3 ft.	\$.79 ea.
*Scarlet Maple, 4 to 5 ft.	4.99 ea.
Russian Mulberry, 2 to 3 ft.	\$.99 ea.
Sycamore Maple, 1/2 to 1 ft.	\$.69 ea.
*Black Gum, 2 to 3 ft.	\$.79 ea.
Japanese Red Leaf Maple, 1 ft.	2.49 ea.
Norway Maple, 1 to 2 ft.	\$.99 ea.
Golden Weeping Willow, 2 to 3 ft.	\$.39 ea.
Golden Weeping Willow, 4 to 6 ft.	1.49 ea.
Amur Corktree, 1 to 2 ft.	\$.49 ea.
Black Locust, 2 to 3 ft.	\$.29 ea.
Bald Cypress, 1 to 2 ft.	\$.49 ea.
*Little Leaf Cucumber, 2 to 3 ft.	\$.69 ea.

FRUIT TREES—1 or 2 Years Old

Belle of Georgia Peach, 1 to 2 ft.	\$.79 ea.
Belle of Georgia Peach, 2 to 3 ft.	1.29 ea.
Belle of Georgia Peach, 3 to 5 ft.	1.99 ea.
Eiberta Peach, 1 to 2 ft.	\$.79 ea.
Eiberta Peach, 2 to 3 ft.	1.29 ea.
Eiberta Peach, 3 to 5 ft.	1.99 ea.
J. H. Hale Peach, 1 to 2 ft.	\$.79 ea.
J. H. Hale Peach, 2 to 3 ft.	1.29 ea.
J. H. Hale Peach, 3 to 5 ft.	1.99 ea.
Hale Haven Peach, 1 to 2 ft.	\$.79 ea.
Hale Haven Peach, 2 to 3 ft.	1.29 ea.
Hale Haven Peach, 3 to 5 ft.	1.99 ea.
Dixie Red Peach, 1 to 2 ft.	\$.79 ea.
Dixie Red Peach, 2 to 3 ft.	1.29 ea.
Dixie Red Peach, 3 to 5 ft.	1.99 ea.
Golden Jubilee Peach, 1 to 2 ft.	\$.79 ea.
Golden Jubilee Peach, 2 to 3 ft.	1.29 ea.
Golden Jubilee Peach, 3 to 5 ft.	1.99 ea.

Champion Peach, 1 to 2 ft.	\$.79 ea.
Champion Peach, 2 to 3 ft.	1.29 ea.
Champion Peach, 3 to 5 ft.	1.99 ea.
Maygold Peach, 1 to 2 ft.	\$.79 ea.
Maygold Peach, 2 to 3 ft.	1.29 ea.
Maygold Peach, 3 to 5 ft.	1.99 ea.
Blake Peach, 1 to 2 ft.	\$.79 ea.
Blake Peach, 2 to 3 ft.	1.29 ea.
Blake Peach, 3 to 5 ft.	1.99 ea.
Stayman Winesap Apple, 2 to 3 ft.	1.49 ea.
Stayman Winesap Apple, 4 to 6 ft.	2.69 ea.
Red Delicious Apple, 2 to 3 ft.	1.49 ea.
Red Delicious Apple, 4 to 6 ft.	2.69 ea.
Early Harvest Apple, 2 to 3 ft.	1.49 ea.
Early Harvest Apple, 4 to 6 ft.	2.69 ea.
Red Rome Beauty Apple, 2 to 3 ft.	1.49 ea.
Red Rome Beauty Apple, 4 to 6 ft.	2.69 ea.
Red Jonathan Apple, 2 to 3 ft.	1.49 ea.
Red Jonathan Apple, 4 to 6 ft.	2.69 ea.
Lodi Apple, 2 to 3 ft.	1.49 ea.
Lodi Apple, 4 to 6 ft.	2.69 ea.
Grimes Golden Apple, 2 to 3 ft.	1.49 ea.
Grimes Golden Apple, 4 to 6 ft.	2.69 ea.
Yellow Transparent Apple, 2 to 3 ft.	1.19 ea.
Yellow Transparent Apple, 4 to 6 ft.	2.39 ea.
Yellow Delicious Apple, 2 to 3 ft.	1.49 ea.
Yellow Delicious Apple, 4 to 6 ft.	2.69 ea.
Early McIntosh Apple, 2 to 3 ft.	1.19 ea.
Early McIntosh Apple, 4 to 6 ft.	2.39 ea.
5-N-1 Apple—5 Varieties on each tree, 3 ft.	4.99 ea.
Montmorency Cherry, 2 to 3 ft.	1.99 ea.
Montmorency Cherry, 4 to 5 ft.	3.99 ea.
Black Tartarian Cherry, 2 to 3 ft.	1.99 ea.
Black Tartarian Cherry, 4 to 5 ft.	3.49 ea.
Early Richmond Cherry, 2 to 3 ft.	1.49 ea.
Early Richmond Cherry, 4 to 5 ft.	3.99 ea.
Kieffer Pear, 2 to 3 ft.	1.99 ea.
Kieffer Pear, 3 to 5 ft.	2.99 ea.
Driest Pear, 2 to 3 ft.	1.99 ea.
Driest Pear, 3 to 5 ft.	2.99 ea.
Bartlett Pear, 2 to 3 ft.	1.99 ea.
Bartlett Pear, 3 to 5 ft.	2.99 ea.
Moopark Apricot, 1 to 2 ft.	\$.89 ea.
Moopark Apricot, 2 to 3 ft.	1.49 ea.
Early Golden Apricot, 1 to 2 ft.	\$.89 ea.
Early Golden Apricot, 2 to 3 ft.	1.49 ea.
Nectarine, 1 to 2 ft.	\$.99 ea.
Nectarine, 2 1/2 to 4 ft.	1.99 ea.
Damson Plum, 1 to 2 ft.	\$.99 ea.
Damson Plum, 2 1/2 to 4 ft.	1.99 ea.
Red June Plum, 1 to 2 ft.	\$.99 ea.
Red June Plum, 2 1/2 to 4 ft.	1.99 ea.
Bruce Plum, 1 to 2 ft.	\$.99 ea.
Bruce Plum, 2 1/2 to 4 ft.	1.99 ea.
Methley Plum, 1 to 2 ft.	\$.99 ea.
Methley Plum, 2 1/2 to 4 ft.	1.99 ea.
Burbank Plum, 1 to 2 ft.	\$.99 ea.
Burbank Plum, 2 1/2 to 4 ft.	1.99 ea.

NUT TREES—1 or 2 Years Old

Hazel Nut, 1 to 2 ft.	\$.99 ea.
Hazel Nut, 3 to 5 ft.	1.99 ea.
Butternut, 1 to 2 ft.	\$.99 ea.
Butternut, 3 to 4 ft.	1.99 ea.
Chinese Chestnut, 1 to 2 ft.	\$.79 ea.
Chinese Chestnut, 3 to 5 ft.	1.99 ea.
Hardy Pecan Seedling, 1 to 2 ft.	\$.99 ea.
Stuart Pecan—Papershell, 2 ft.	2.99 ea.
Stuart Pecan—Papershell, 3 1/2 to 5 ft.	5.95 ea.
Mahan Pecan—Papershell, 2 ft.	2.99 ea.
Mahan Pecan—Papershell, 3 to 5 ft.	5.95 ea.
Black Walnut, 1 to 2 ft.	\$.49 ea.
Black Walnut, 3 to 5 ft.	1.49 ea.
English Walnut, 2 to 3 ft.	4.99 ea.
Shell Bark Hickory, 1 to 2 ft.	\$.99 ea.
American Beech—Collected, 3 to 4 ft.	\$.99 ea.
Japanese Walnut, 3 to 4 ft.	1.99 ea.

DWARF FRUIT TREES—2 or 3 Years Old

Dwarf Eiberta Peach, 2 to 3 ft.	\$.29 ea.
Dwarf Eiberta Peach, 4 to 5 ft.	\$.49 ea.
Dwarf Red Haven Peach, 2 to 3 ft.	2.99 ea.
Dwarf Red Haven Peach, 4 to 5 ft.	4.95 ea.
Dwarf Belle of Georgia Peach, 2 to 3 ft.	2.99 ea.
Dwarf Belle of Georgia Peach, 4 to 5 ft.	4.95 ea.
Dwarf Golden Jubilee Peach, 2 to 3 ft.	2.99 ea.
Dwarf Golden Jubilee Peach, 4 to 5 ft.	4.95 ea.
Dwarf Red Delicious Apple, 2 to 3 ft.	2.99 ea.
Dwarf Red Delicious Apple, 4 to 5 ft.	4.95 ea.
Dwarf Yellow Delicious Apple, 2 to 3 ft.	2.99 ea.
Dwarf Yellow Delicious Apple, 4 to 5 ft.	4.95 ea.
Dwarf Winesap Apple, 2 to 3 ft.	2.99 ea.
Dwarf Winesap Apple, 4 to 5 ft.	4.95 ea.
Dwarf Early McIntosh Apple, 2 to 3 ft.	2.49 ea.
Dwarf Early McIntosh Apple, 4 to 5 ft.	3.98 ea.
Dwarf Jonathan Apple, 2 to 3 ft.	2.49 ea.
Dwarf Jonathan Apple, 4 to 5 ft.	3.98 ea.
Dwarf Lodi Apple, 2 to 3 ft.	2.49 ea.
Dwarf Lodi Apple, 4 to 5 ft.	3.98 ea.
Dwarf Cortland Apple, 2 to 3 ft.	2.49 ea.
Dwarf Cortland Apple, 4 to 5 ft.	3.98 ea.
Dwarf Northern Spy Apple, 2 to 3 ft.	2.49 ea.
Dwarf Northern Spy Apple, 4 to 5 ft.	3.98 ea.
Dwarf Yellow Transparent Apple, 2 to 3 ft.	2.49 ea.
Dwarf Yellow Transparent Apple, 4 to 5 ft.	3.98 ea.
Dwarf Montmorency Cherry, 2 to 3 ft.	3.49 ea.
Dwarf North Star Cherry, 2 to 3 ft.	2.99 ea.
Dwarf Bartlett Pear, 2 to 3 ft.	2.99 ea.
Dwarf Kieffer Pear, 2 to 3 ft.	2.99 ea.
Dwarf Burbank Plum, 2 to 3 ft.	2.99 ea.

VINES—1 or 2 Years Old

Red Scarlet Honeysuckle, 1 ft.	\$.59 ea.
Wisteria—Purple, 1/2 to 1 ft.	\$.99 ea.
Bittersweet, 1 ft.	

a lady and her horses



Fifty years ago there was little opportunity for a woman in the horse business, movies and novels notwithstanding. And when a woman rode, she either did it side-saddle or was relegated to a buggy.

"Times have really changed, haven't they," Carolyn Gardner said. "One thing women's lib brought was more opportunity for a female in the horse business."

Mrs. Gardner has found both the opportunity and a great deal of success in the horse world. Along with her husband, Harold, she operates the Harold Gardner Gait Farm and a tack shop located near Geneseo.

Electric power for her operation is provided by Farmers Mutual Electric Company, Geneseo.

Mrs. Gardner, who can sit a horse as well as any man with a variety of saddles or no saddle at all, is also as knowledgeable about four-legged transportation as any man.

"At least I should be," she said. "I've been around them all of my life. It seems like I have always either had a horse or pretended I did.

"I started riding when I was three," Mrs. Gardner said. "It was just something to do for fun then. I didn't get involved in the serious aspects of the horse business until I was older."

Older in this case means the tender age of 10. When most little girls are just learning to dress their dolls, Mrs. Gardner was saddling her father's stock horses and riding.

She was also training her high school champion pony, Royal Prim, and showing it around the country. The performance of Royal Prim—it could do 35 different tricks she taught it—eventually earned her national recognition and an offer from Ringling Brothers Circus to bring both her pony and herself under the Big Top.

"It was an interesting offer for a teenager, but I wanted more than the circus life," Mrs. Gardner said. "I went

to college later and studied equitation—the art of horsemanship.”

After a year as director of horsemanship at a school in Minnesota, Mrs. Gardner, then Miss Davies, returned to Illinois and started the Davies School of Equitation.

“Somewhere along the line, we got away from teaching as many people and started teaching horses,” Mrs. Gardner said.

In 1960 she started boarding other people’s horses. Within a short time, Mrs. Gardner was also hauling the horses, training them and showing them. It’s been a full-time “and then some” occupation ever since.

“We started with American Bred Saddle Horses, but now we deal primarily with Arabians,” Mrs. Gardner said.

Acknowledged as one of the most beautiful breeds, the Arabian is also the oldest registered purebred breed of horse. Every other registered breed of American horses has an Arabian bloodline, although few have its endurance, disposition and intelligence.

“It makes one of the best show horses, too,” Mrs. Gardner said. “But only if it is trained properly.”

According to Mrs. Gardner, small breeders from around the country—people who can either not afford or do not desire to keep a full-time trainer on hand—bring their horses to her to train. She has trained more than 300 horses since the gait farm was started.

“The breeders use the show horses as a form of advertising,” she said. “Eventually, the horse will be used for breeding purposes but if we can make it a champion show horse it will bring a great deal of recognition to its owner among other horse breeders.”

Mrs. Gardner gets the horse when it is two-years-old. It is either broken

or partially broken usually, or, as Mrs. Gardner said, “it is either trained or partially trained.”

“There is a difference between training a horse and breaking it” she added. “A horse breaker will take anything with four legs and make it obey. A trainer doesn’t do that. I want the best possible finished product I can get ahold of, so I train a horse. Skill, finish and the finer things of horsemanship are shown in training, not in breaking.”

Each trainer, according to Mrs. Gardner, has their own style. For that reason, a partially trained horse is trained from scratch again when she gets it.

“I personally am not an overnight trainer,” she said. “If someone brings me a horse to train, I’ll keep it and work with it for three months, then tell the owner whether or not I think it will make a good show horse and how much it can be taught.

“It will take the biggest part of a year before a horse is ready for a show,” Mrs. Gardner said. “You have to know the horse and it has to know you before it is ready to show. A trainer must know the horse’s health, heredity and individual peculiarities.”

A horse brought to Mrs. Gardner is first taught on the lunge, a long rope attached to a center peg allowing the horse to move in a circle. The harness and bit come next.

“The horse is taught to know

BELOW: Mrs. Gardner is as meticulous with horse’s equipment as she is with the horse. Each horse has separate gear provided by its owner. LEFT: The Arabian, according to Mrs. Gardner, is one of the most beautiful, intelligent and trainable horses. It also presents a most regal bearing. BOTTOM: Each horse Mrs. Gardner boards receives grooming and exercise in addition to its training.





word commands, to stop, turn and ground driving; it learns more as it is able to retain it," Mrs. Gardner said. "A sensitive mouth is essential in training a horse for show.

"What we are striving for in a show horse is action, high motion and true rhythm," she said. "The finished horse should possess a combination of beauty, cadence and motion at the same time."

According to Mrs. Gardner, horses are like people in that some cannot produce the same motion and action as others. Mrs. Gardner trains slower horses to be three gaited, while faster horses—with greater and higher motion—are trained to be five gaited. The three-gaited-horse will walk, trot and canter, while the five-gaited horse is also trained in the slow gait (sometimes called the fox-trot) and the rack or single-foot.

"The latter two gaits are known as artificial gaits," Mrs. Gardner said. "They are not natural to the horse and only the faster horses can learn them."

An Arabian can be shown as a pleasure horse, packhorse, trail horse or hitched to a buggy. The objective of all the training is to win in show competition or place

well, both from the standpoint of the trainer and the owner.

"A horse in the show-ring is beautiful," Mrs. Gardner said. "But sometimes when people see a horse in the ring, they forget that 90 percent of the real work was done back home."

Considering she has entered the show-ring with almost all of the 300 horses she has trained, Mrs. Gardner has won her share of prizes for the horses' owners. She figures to win several more.

"We are constantly training 12-15 horses and we usually have about 20-25 on the farm," Mrs. Gardner said. "That is about as many as we can handle now and still give them the personal contact they need." The horses presently at the farm have owners from Kansas and Maine, as well as locally.

"It's a big responsibility to keep someone else's property," Mrs. Gardner said. "These horses are all worth at least \$5,000 and a few would be in the \$50,000 bracket."

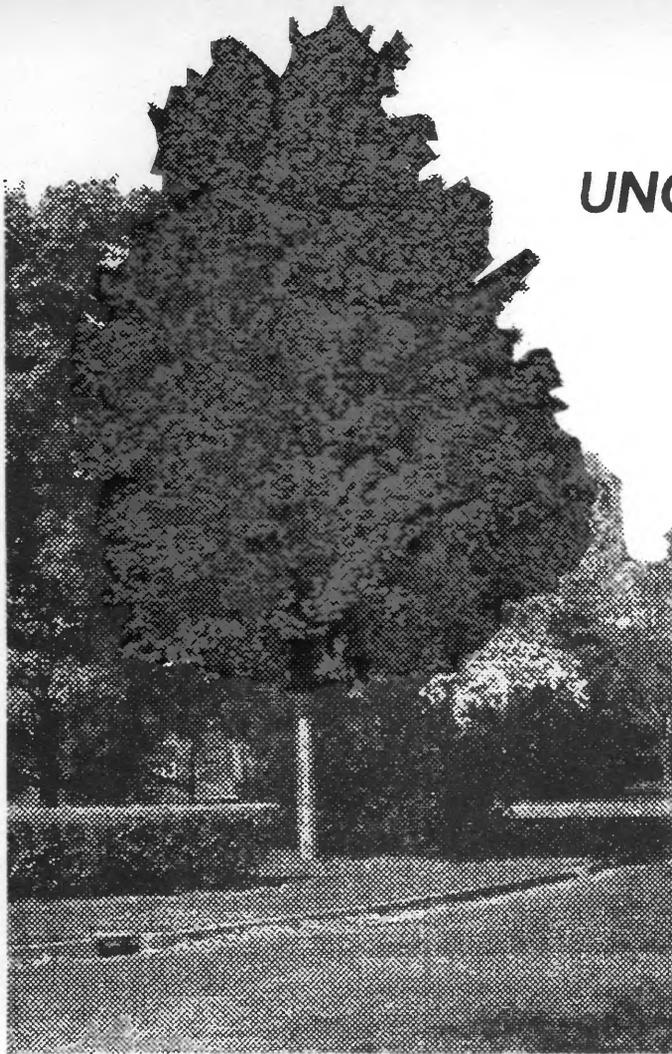
Being responsible for other people's horses and their training has limited Mrs. Gardner's own showing in the past few years. As she puts it, "You really can't be in competition with your customers' horses."

When the competition would come from someone as accomplished and experienced as herself, one can see her reasoning.

For a woman looking to start out in the horse business, Mrs. Gardner has only encouragement. "It is a tremendous business," she said, "and there is room for a lot more women. The only thing I'll say is that they should be dedicated."

Perhaps they should also try to learn from Mrs. Gardner who is extremely dedicated and a good example of what those of the distaff side can accomplish in the horse business.





Actual photograph of a five year scarlet maple.

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For most of his 78 years, Lem Lilly of St. Elmo has been known simply as "the man with all the guns."

"Either that or 'the crazy old man with all those guns,'" Lilly said with a smile. "But that's all right. I enjoy them and that's what counts, isn't it?"

To say Lilly is merely a gun collector is to tell less than half a story. He is also an amateur gunsmith who turns out professional quality work, and quite a historian when it comes to the firearms of America's not so distant past.

More than 90 flintlocks, percussion rifles and breechloaders are mounted on the walls of Lilly's workshop. Electric power for Lilly's farm and workshop is provided by Southwestern Electric Cooperative, Inc., Greenville.

The fact that many of Lilly's rifles are replicas he made himself attests to the quality of his gunsmithing. To the untrained eye, they are as detailed as the originals.

The rifles Lilly didn't make were ones he purchased or traded for and had to either repair or rebuild in his workshop. They are a mixture of the antique, the unusual and the rare.

Some of the more notable are a .22 calibre Stevens-Maynard which at one time was given away when one purchased 12 packages of seed from the Cloverine Salve Company; a 12-gauge shotgun with a Damascus-twist steel barrel; and a .45 calibre Colt pistol which Lilly converted into a long-barreled, single-shot breechloader.

The most interesting part of Lilly's hobby is the rifles he makes himself, something he has been interested in since he was a kid.

"They kind of fascinated me," Lilly said. "A doctor over in Beecher City was an original muzzleloading man and he taught me how to cut the barrels. Working with the wood for the stocks . . . well, I just picked

that up by trial and error.

"And I also better say right away that making rifles is strictly a hobby with me," he added. "There might have been a time 10 years ago or so that I would have built a rifle for someone and sold it, but I'd get in trouble with the gun laws if I did that now. Let's just say I could, but I don't."

What Lilly does do is turn out finely crafted rifles. His finished product is one even the most exacting gunsmith would appreciate.

Lilly's vernacular is that of a man knowledgeable and interested in firearms. Words like flashpan, frizzen, breechloader, primer and slug rifle roll off his tongue as he quickly moves about his shop showing just what he means when he uses the words.

"Old rifles are either breechloaders or muzzleloaders," Lilly said. "The rifles I make are muzzleloaders which can either be flintlocks, percussion rifles or matchlocks. A flintlock uses a flint to ignite the powder, a percussion rifle uses a primer cap and a matchlock uses a primer cord or a match."

Most of the rifles Lilly makes are flintlocks similar to those used in our Revolutionary War and before. With a flintlock, powder is poured in the barrel, the lead ball and a wad of cloth are tamped in with a ramrod and additional powder is poured in the flashpan of the firing mechanism to act as a primer. The trigger mechanism releases a hammer which holds the flint. The flint-laden hammer strikes a metal strip called a frizzen which produces a spark. The spark ignites the powder in the flashpan, which in turn ignites the powder in the muzzle through a tiny hole in the barrel.

With a percussion rifle, the primer cap is placed over a small tube leading to the powder in the muzzle.

"I prefer the flintlock," Lilly said. "Fewer things can go wrong. A per-

BELOW: A small portion of the more than 90 flintlocks and breechloaders Lilly has displayed in his workshop. BOTTOM: Even "muzzleloading man" should have strong wrists to force the ramrod down the barrel. RIGHT: A grin comes to Lilly's face as the smoke clears after he fired one of his favorite flintlocks.



St. Elmo Craftsman Works With Flints,



cussion rifle has to be cleaned more often and it takes a lot of time to scrape the tube clean to prevent misfires.”

Lilly at one time assembled the entire rifle. He could still do it today, but prefers to concentrate on the ornamental stocks he makes and his activities with the muzzleloading gun club he belongs to.

Even buying a blank stock barrel subtracts only a little time for the assembly of a flintlock. For Lilly to turn out a finished product takes up to three months, depending on how ornate and detailed he makes it.

Wood for the stock is chosen to fit the barrel. All of the work of shaping the stock is done by hand with knives and a hand rasp.

“It takes me about a month of pretty steady work to rough out a stock,” Lilly said. “And then the tough work begins.”

Inlaying the brass patch box and other decorative brass ornaments on the rifle is both time consuming and delicate work.

“That’s because you would go nuts if you had to sit there and do it straight,” Lilly said. “You also want to be by yourself when you are doing it. When you are working with brass inlay, you mess it up, you can throw it away. It’s just no good and you have to start over.”

Lilly has examples both of how inlay should be done and what happens when it isn’t. At his best, he is one of the best. His mistakes are few.

“But I make them,” Lilly said as he picked up a flintlock. “One design on this rifle started out to be an American Eagle, but it wound up looking more like a turkey buzzard.

“A lot of flintlocks today are made in foreign countries,” Lilly added. “They’ve flooded the market and they aren’t made that well, either. Anything made in mass production is not as good as something made by hand.

(continued on page 18)

Frizzens and Flashpans

"Dreams never hurt anybody if he keeps working right behind the dream to make as much of it come real as he can." . . . F. W. Woolworth.

Making a dream come true does in fact take work. And in the case of Leonard Hammann and his wife, it also took a little patience.

It was 25 years ago that the idea of opening a nightclub crossed the rural Carlinville couple's mind. Deer Run Inn, a restaurant and nightclub located near Route 4, south of Carlinville, is the result.

Between the time they first had the idea and the restaurants opening, Hammann had farmed, worked for an oil company, been a coal miner and a heavy equipment operator.

Along with his work, Hammann moonlighted as a drummer with area bands. The constant contact with night life, and the chance to visit and play at many different clubs and night spots, kept the idea alive that someday he would like to have a place of his own.

In 1973, Leonard Hammann and his wife Roberta, better known by her nickname "Bertie," drew up plans for Deer Run Inn.

In December of the same year, their dream came true with the opening of the restaurant. Electric power is supplied by M. J. M. Electric Cooperative, Carlinville.

The restaurant seats 210 people and is open Wednesday through Sunday at 4 p.m. with food service beginning at 5 p.m.

The Hammanns have a varied menu, serving steaks, seafood, chicken and Italian dinners. Along with the food, entertainment is provided for both listening and dancing on Friday and Saturday nights.

Hammann hires both contemporary and country western bands, rotating engagements for variety. He is familiar with the musical groups operating in the area and makes frequent trips to St. Louis and Springfield to listen and talk—if his reactions are favorable—about an engagement at Deer Run Inn.

Deer Run Inn's atmosphere and music draw crowds from the Springfield, Alton, East Hillsboro and the Collinsville area.

"It's the 'good times' atmosphere that causes many couples and families to return," Hammann said, "along with the good entertainment."

Adding to the atmosphere is the view from three large windows that overlook a 12-acre lake, another venture of the Hammanns.

The lake has been stocked with many types of game fish. A 20-pound channel catfish, an eight-pound catfish and an eight and a quarter pound bass were caught by a man from Staunton in one day.

Hammann said the lake also has a lot of crappie and red ear. The good fishing in the lake provides extra income since the Hammanns charge a per pole fee.

The lake has been a paying enterprise for the past five years and has gained a reputation as a good fishing

hole. The money charged helps defer the costs of building the lake and its upkeep.

The many fingers of the lake reach into another interesting sideline of the Hammanns. They raise deer in a five-acre pen at one side of the lake.

At the present time they have 11 deer in the enclosure. The Hammanns started raising deer six years ago with a pair they purchased at Mt. Sterling.

Hammann vividly recalls what had to be done to haul the pair. Special plywood boxes had to be constructed. They were completely enclosed with the exception of air holes.

The herd of deer has flourished and are all quite tame. One doe, which is especially tame and kind of a family favorite, has given birth to a set of twins each year.

The doe is named Tinsel and will come to the fence on command. It is a habit picked up by many feedings of crackers and lettuce by the Hammanns' younger son.

Another part of the lake is occupied by a flock of Chinese and Canadian geese. Mrs. Hammann said they wanted swans, but found them too costly because of the danger of foxes in the area.

Hammann can with one call bring the geese across the lake for their feeding. His touch with animals seems to have rubbed off on his younger son.

His interest in music is shared with an older son, Len, who is a drummer with the Phil Driscoll Band. Len learned to play the drums from his father and as Hammann says, "I taught him all I knew and he just kept on learning."

In a way, life has been good to the Hammanns. They have three healthy children, the restaurant they so long dreamed of having is a reality and they are living a lifestyle which seems to suit them. And although the realization of their dream took a lot of work, the Hammanns are enjoying every minute of its success.





BOTTOM: Six of the Hammann's 11 deer graze on the lakeshore. LEFT: Tinsel, the family favorite, takes a cracker from the youngest Hammann, Chris. BELOW: Leonard and Roberta pose by the fireplace at Deer Run Inn.



Deer Run Inn

25 Years of Dreaming

In the good old days when a farmer needed a barn, he would call upon his neighbors and friends.

Barn raising was a social event. But families would not gather only for the work. There was also fun, good food and square dancing.

The work of lifting, sawing, drilling, notching and pinning the huge oak beams which constituted the architectural skeletons of the barns of yesterday was eased by a co-operative ef-

fort.

The custom like many from this country's rich rural heritage has all but disappeared. The family farm of the past is still around, but its dimensions have changed.

As the farm acreage increases, it has become imperative that technical advances be made in farm machinery to handle the larger tasks.

The shade tree farm mechanic of yesteryear has been replaced by a farmer with knowledge and understanding of how his sophisticated hydraulic, diesel and electrical farming machinery and systems work.

Sophistication is expensive, with pieces of machinery now

costing in the tens of thousands of dollars. With this large investment, farmers are looking into ways of protecting equipment to prolong its life.

The old habit of leaving equipment outside to cope with the elements has gone the way of the horse drawn plow. In ever increasing numbers, farmers are erecting buildings in which to house and repair equipment.

Farmers are also using buildings to increase production of beef, swine and dairy animals. Controlled environmental condi-



F BUILDING

tions in these buildings provide a stable atmosphere and protection from disease caused by inclement weather.

Included in this total approach to animal confinement are ventilation, heating, cooling, watering, manure disposal, livestock handling and feeding systems—all under one roof. And all are made possible because of electricity.

Modern barn raising is accomplished now with a few workers, hydraulic cranes and modern tools. The buildings are custom designed to meet the needs of the farmer.

Modern technology and materials are used for the building, which goes up quickly allowing the farmer to start using it immediately.

These modern durable materials also give the building a long life expectancy.

Constructing the building either to protect an investment or to increase production is, in a sense, "building for profit."

That was the theme for the eighth annual Farm Builder Show held February 3, 4 and 5 at the Chase Park Plaza Hotel in St. Louis.

More than 1300 people from all parts of the U. S. and Canada attended the show sponsored by *Farm Building News* magazine.

Dick Bowman, show coordinator, said with 128 booths, which is 20 more than last year, the show is the largest ever held by the organization. Filling these booths were 79 exhibitors, showing the wares of the builder's trade.

New products, new materials and

old reliable items filled the displays and were illustrated on the many brochures available.

Programs included the total systems approach to swine confinement, beef confinement and on-farm grain handling.

Shirt-sleeve sessions, described as short presentations with meaty discussion, were also held on ventilation, insulation and systems approaches to farm livestock handling.

All in all, the three days were spent learning what is going on in the business—better ways the farm builder can construct custom farm buildings and systems to make today's farmer more productive and his business more profitable.



FARM BUILDER SHOW

Flints, Frizzens and Flashpans

(continued from page 13)

"Usually, in foreign-made flintlocks, the grooves in the rifle aren't cut well . . . the rifling isn't always properly done. They just aren't as good," Lilly explained.

Lilly is as knowledgeable about the history of the muzzleloaders as he is about the ones he makes. Each one of the rifles he has made has at

least one story he can tell about the original weapon.

"This is a .38-calibre slug rifle," Lilly said as he held up a 40-pound monstrosity outfitted with a telescopic lens. "It was used first during the Civil War and today is used as a match rifle.

"A group of Union Army sharpshooters called Burden's Riflemen

used a similar gun during the Civil War to pick off Confederate officers from about a half-mile away.

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(continued on page 22)

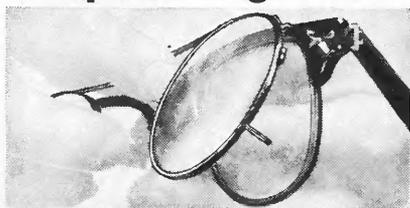
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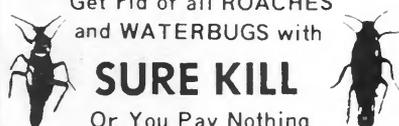


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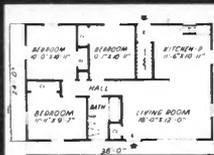
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A declining commodity market and the crunch of inflation were on the minds of every Illinois Farmers Union member attending the organization's recent annual convention in Springfield.

At the meeting, Harold Dodd of Loami, president of the Illinois farm organization, announced a program to combat "what we feel is unwise conservation practices proposed by the United States Department of Agriculture (USDA), namely total, all-out mass production.

"Since it seems impossible to get the USDA to come up with any kind of realistic program that would conserve our soil or ward off mass bankruptcy among our farmers, we feel we have no alternative but to organize Illinois farmers together and set aside 10 percent of their tillable acres," Dodd declared.

According to the plan, the set aside acres would be planted to a legume, weeds controlled and no crop taken off of them. The set aside acres would also be rotated at least every two years. Dodd indicated the plan was to be initiated in Illinois, Iowa, Indiana and Ohio—the four major corn producing states.

"This fall might be disastrous to the American farmer," Dodd added. "If planting intention estimates are correct from the USDA, we could have \$1.50 to \$2.00 corn next winter."

Tony T. Dechant, president of the National Farmers Union, echoed Dodd's remarks during the convention's annual banquet.

"Unless our nation's farmers are assured an adequate and fair income, they should not be expected to go all out in food production," Dechant said.

According to Dechant, farmers are ready, willing and able to produce the food our country and the world so badly needs, but farmers cannot and will not do it without a commitment by the federal government to back farmers with adequate

target and loan prices, with a cost of production escalator clause and a reasonable disaster program.

"Unless farmers are given such assurances, I recommend they cut back 10 percent of their production intentions," Dechant said.

The Farmers Union leader told the Illinois delegation that farmers are anxious to avoid threats of decreased production in this time of need, but repeated emasculation of needed farm legislation prompted by Administration opposition has already brought dairy and livestock farmers to their knees.

Dechant said these sectors of the farming community must be revived and other areas, particularly wheat and feed grains, must be protected from taking their turn on the chopping block of bust prices.

"Consumers must become increasingly concerned about what happens to our farm economy—after all, it's their food budgets and ultimately their survival that is at stake," he added. "Fair and reasonable income for farmers will result in fair and

reasonable food prices and supplies for consumers. The sooner the Congress and the Administration face up to these facts, the sooner we can help put our economy back on its feet."

Dechant called for immediate action on a national energy and food policy.

"If we do not develop a national food policy soon, then our leaders better start getting ready to play God," he declared. "Without such a policy, our leaders will have to decide which country starves and which country is fed."

At the meeting, delegates passed a resolution that urged continued support of the electric cooperative program.

Distinguished speakers at the two day convention included: Michael J. Howlett, Secretary of State; Robert J. "Pud" Williams, director, Illinois Department of Agriculture; Governor Dan Walker; John Lewis, past director of agriculture and Secretary of State; and Illinois Senator Clifford B. Latherow of the 47th District.

Farmer's Union Calls for 10 Percent Cutback in Production by Farmers



Ray Watson, chairman of the board, left, introduces Secretary of State Michael J. Howlett. Seated next to Howlett is Harold Dodd, president of Illinois Farmers Union.

Ford Requests \$618 Million For Cooperatives

The federal budget submitted to Congress by President Ford recently calls for a \$618 million insured loan program for fiscal 1976 (July 1, 1975 through June 30, 1976), plus \$155 million for the quarter-year transition period (from July to Oct. 1976). Beginning Oct. 1, 1976, the fiscal year (F.Y. '77) will run from October through September, by direction of the congressional Budget and Impoundment Control Act of 1974.

An ominous statement appearing in the "Special Analyses" document of the budget dealing with proposed legislation reads: "Other proposals include: Removal of the five percent interest rate ceiling on certain agricultural credit programs and legislation to permit rates charged borrowers to reflect prevailing market rates."

Most insured loans, made largely to electric cooperative distribution systems, are at the five-percent rate. It is not known whether or not the proposed legislation is intended to apply to the programs of the Rural Electrification Administration (REA) or Farmers Home Administration or both.

The REA insured loans actually have no impact on the budget since the passage of P.L. 93-32 in 1973, which established the Rural Electrification and Telephone Revolving Fund and authorized Federal guarantees of private loans at interest rates negotiated by the borrower and lender. Most insured REA loans are also supplemented by private loans, largely from CFC, the cooperatively owned financial institution of the rural electric systems.

On the five percent insured loans, REA currently requires the borrower to obtain 10, 20 or 30 percent of its requirements from supplemental private sources, depending upon the economic ability of the

system to sustain a higher interest rate and meet the objectives of the RE Act. A matter of concern for the cooperatives is that REA may change the ratios, requiring them to obtain a larger portion of capital funds from supplemental sources at higher interest rates. Congress authorized insured REA electric loans of not less than \$700 million for fiscal '75—the current year.

According to a National Rural

Electric Cooperative Association's analysis, rural telephone loans for F.Y. '76 are estimated at \$140 million compared with \$200 million estimated for the current year. The estimate for guaranteed loans goes up from \$100 million this year to \$160 million in '76 for a combined total of \$300 million in each of the two years. The transition-quarter estimate for insured telephone loans is \$35 million.

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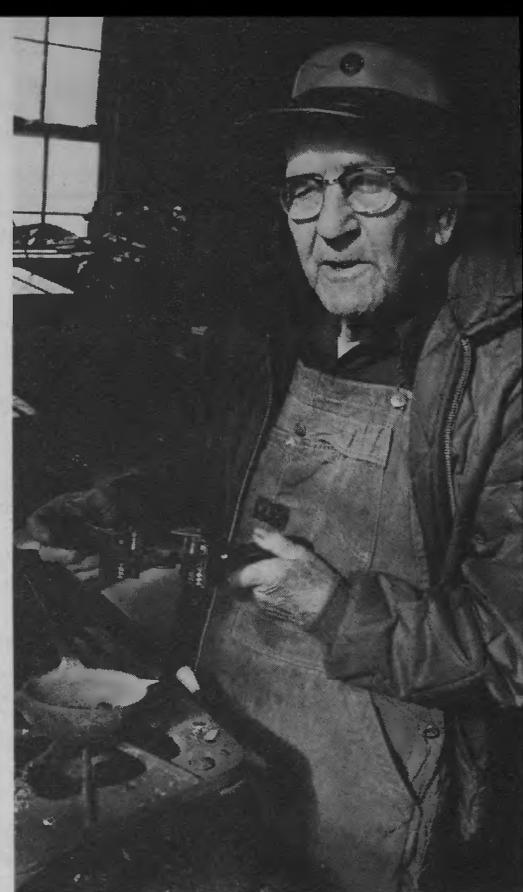
(continued from page 18)

federate general, the other man had walked in front of him and the general was saved. That shows how slow the slug was, so they say."

When he is not in his workshop making a new rifle, Lilly is usually preparing one of his favorites for a match.

"The gun club I belong to meets once a month," Lilly said. "We go out and shoot flintlocks and generally just have a good time." In addition to assembling his own rifles, Lilly also casts the lead balls from molds and fashions horn powder flasks which make him the complete muzzleloading man.

Lilly said that his club used to be



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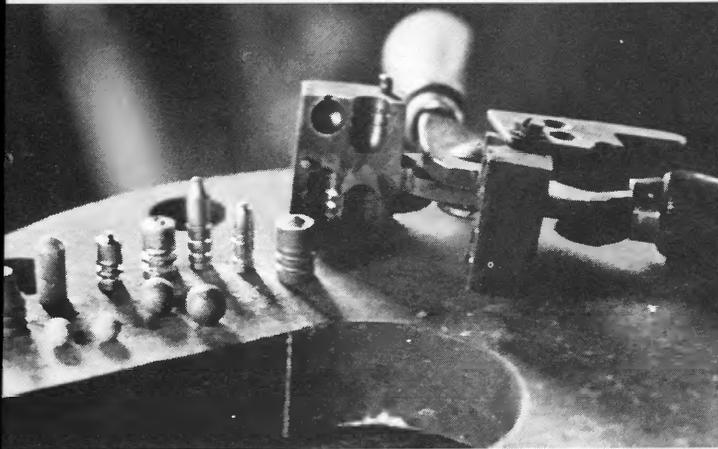
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OPPOSITE: Lilly makes his own bullets and balls from a variety of molds he has bought or made. **LEFT:** Heated lead is poured into the mold to form the bullets and balls for different calibre rifles Lilly owns.

mostly older shooters, but recently more younger muzzleloaders were becoming involved.

"I guess the smell of black powder just gets to them," Lilly said.

Several people have misconceptions about the flintlock, Lilly said. "People have seen television shows and think a flintlock will fire for a long distance. That just isn't true. With a normal load, about 60 grains of powder for this .40-calibre rifle here, the effective range is 100 yards.

"When you up it to 100-110 grains, you can make a two-inch pat-

tern at 100 yards. But a hot load like that will also make your teeth rattle," he added.

There is little "kick" to a flintlock Lilly said when a normal load is used. "And I'll be as accurate with a flintlock as you'll be with a .22-calibre," Lilly added. "I guarantee it."

There isn't much in the world of flintlocks that Lilly doesn't know or hasn't done. And maybe by extending his hobby to the degree he has, he has preserved a part of history for all of us.

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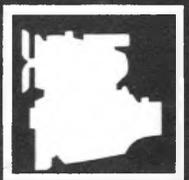
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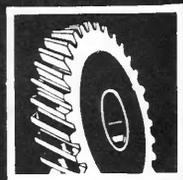
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To top your Easter table--

BAKED SMOKED HAM JUBILEE

5 to 7-pound smoked half ham
1/4 cup brandy, if desired
 Place ham, fat side up, on rack in an open roasting pan. Insert roast meat thermometer so the bulb is centered in the thickest part. Be careful that bulb does not rest in fat or on bone. Do not add water. Do not cover. Roast at 325 degrees until the meat thermometer registers 140°F. for "fully-cooked" half ham (18 to 24 minutes per pound); 160°F. for a "cook-before eating" half ham (22 to 25 minutes per pound). Brush ham with Cherries Jubilee Sauce 30 minutes before end of baking time. When ready to serve, place ham on platter and spoon remaining hot Cherries Jubilee Sauce over ham. Heat brandy until it starts to simmer and immediately pour over sauce-covered ham and ignite. Note: For "fully-cooked" whole ham allow 15 to 18 minutes per pound for heating; for "cook-before-eating" whole ham allow 18 to 20 minutes per pound.

*Cherries Jubilee Sauce

1 can (21 ounces) cherry pie filling **1/2 cup cherry wine**
1 teaspoon grated orange rind
 Combine cherry pie filling, wine and orange rind and cook slowly, stirring occasionally for 10 to 15 minutes.

CHERRY CREME SUPREME

1 jar (8 oz.) maraschino cherries, halved **1 teaspoon almond flavoring**
1 can (11 oz.) mandarin orange segments and pineapple tidbits, drained
1/3 cup sugar **1/2 cup flaked coconut**
2 envelopes unflavored gelatin **1/4 cup sugar**
1/2 teaspoon salt **1 cup whipping cream**
2 eggs
1 2/3 cups milk
 Drain maraschino cherries, reserving 1/2 cup syrup. Combine 1/3 cup sugar, gelatin and salt in a saucepan and stir in reserved cherry syrup. Separate eggs. Reserve whites; beat yolks with milk, add to gelatin mixture and cook slowly, stirring constantly until mixture coats a metal spoon. Stir in almond flavoring. Chill until mixed custard begins to thicken but not until it begins to congeal (10 to 15 minutes). Beat egg whites until they form soft peaks, gradually add 1/4 cup sugar and continue beating until glossy and stiff, but not dry. Beat cream until just stiff. Fold halved maraschino cherries, mandarin orange segments and pineapple tidbits and coconut into gelatin mixture. Fold in meringue; then fold in whipped cream. Pour mixture into 6 to 7-cup mold that has been rinsed with cold water. Chill 12 hours or until firm. 10 to 14 servings.

PORK CHOPS WITH CRANBERRIES

4 to 6 thick pork chops **2 cups whole cranberry sauce**
Salt and pepper to taste **1/4 teaspoon nutmeg**
Fat for browning **1/4 teaspoon cinnamon**
 Salt and pepper chops to taste. Brown lightly in hot fat. Mix cranberry sauce with spices. Arrange browned chops in low baking dish and cover with cranberry sauce. Cover the pan tightly and bake at 325 degrees for one hour or until chops are very tender.

COFFEE CRUNCH BARS

2 cups flour **1 cup brown sugar (packed)**
1/2 teaspoon baking powder **1 teaspoon almond extract**
1/4 teaspoon salt **1/2 cup chopped almonds**
2 tablespoons instant coffee **1 pkg. (6 oz.) semi-sweet chocolate pieces (1 cup)**
1 cup butter or margarine, softened
 Heat oven to 350°. Blend all ingredients except almonds and chocolate pieces thoroughly. Mix in almonds and chocolate pieces. Pat or spread batter evenly in ungreased jelly roll pan, 15 1/2 x 10 1/2 x 1". Bake about 25 min. or until lightly browned and crisp. While warm, cut into bars, each 2x1". Makes about 6 doz.

SPRING RING MOLD

1 tablespoon unflavored gelatin **1 tablespoon grated onion**
1/4 cup cold water **1 cup finely diced celery**
1/2 cup boiling water **1/2 cup crumbled American blue cheese (about 3 ounces)**
2 cups creamed cottage cheese **2 (4 1/2 oz.) cans deviled ham**
1/2 teaspoon salt
 Soften gelatin in cold water. Add boiling water and dissolve gelatin thoroughly. Chill until slightly thickened. Mix in cottage cheese, salt, onion, celery and blue cheese. Pour half of mixture into greased 5-cup ring mold. Chill until set. Spread a layer of deviled ham evenly over cheese. Spoon remaining cheese mixture over ham. Chill until set. Unmold on salad greens. Fill center of ring with crisp vegetable garnish, if desired.

ORANGE CHICKEN

4 chicken breasts, halved **8 slices ham**
1/4 pound butter **2 cups diced celery**
1/2 teaspoon salt **1 cup orange juice**
1 teaspoon paprika **1 cup commercial sour cream**
1/4 cup flour
 Salt chicken breasts. Melt butter. Mix flour, salt, and paprika in bag. Add chicken and shake to coat each piece evenly. Brown lightly in butter or margarine. Grease an 8-x 12-inch baking dish. Place slices of ham in dish, cover with diced celery. Place browned

chicken breasts, skin side up, on the ham slices. Add flour left in bag to melted butter or margarine; blend well, then add orange juice. Remove from heat and add sour cream. Pour this gravy over chicken. Cover baking dish and bake at 350 degrees for 1 hour and 15 minutes. Yield: 4 servings.

BABOVKA

(A Czechoslovakian coffeecake for Easter morning)

3 to 3 1/2 cups flour **2 eggs**
1 pkg. dry yeast **1/2 teaspoon almond extract**
1 cup milk **1 cup golden raisins**
1/2 cup cooking oil **1/2 cup finely chopped almonds**
1/4 cup sugar **12 candied cherries, sliced**
1 teaspoon salt **1 tablespoon grated orange rind**
1 teaspoon cinnamon

Stir together 2 cups flour and yeast. Heat milk, oil, sugar, cinnamon and salt over low heat only until warm, stirring to blend. Add liquid ingredients to flour mixture and beat until smooth, about 2 minutes on medium speed of electric mixer. Blend in eggs and almond extract. Stir in more flour to make a stiff batter. Beat until batter is smooth and elastic, about 1 minute at medium speed. Cover, let rise in warm place until light and bubbly, about 1 hour. Stir in raisins, almonds, cherries and orange rind. Pour into greased 2-quart crown mold. Let rise in warm place until doubled, about 30 minutes. Bake at 375 degrees 30 to 35 minutes or until done. Cool in mold 15 minutes. Remove from pan, drizzle with orange juice. Cool.

ORANGE ICING: Blend 1 cup sifted confectioners' sugar with 1 tablespoon milk. Blend in 1 tablespoon grated orange rind. Add more milk if necessary for spreading consistency.

COOLRISE SWEET DOUGH

5 - 6 cups all-purpose flour **1/2 cup softened butter or margarine**
2 pkgs. active dry yeast **1 1/2 cups hot tap water**
1 1/2 cup sugar **2 eggs (at room temperature)**
1 1/2 teaspoons salt **Salad oil**
 Combine 2 cups flour, undissolved yeast, sugar and salt in large bowl. Stir well to blend. Add softened butter. Add hot tap water to ingredients in bowl all at once. Beat with electric mixer at medium speed 2 minutes. Scrape bowl occasionally. Add eggs and 1 cup more flour. Beat with electric mixer at high speed 1 minute or until thick and elastic. Scrape bowl occasionally. Gradually stir in just enough of remaining flour with wooden spoon to make a soft dough that leaves the sides of bowl. Turn onto floured board. Round up into ball. Knead 5 to 10 minutes, or until dough is smooth and elastic. Cover with plastic wrap, then a towel. Let rest 20 minutes on board. Punch down. Divide and shape as desired into 2 coffee cakes or 2 1/2 dozen rolls. Place in greased pans or on greased baking sheets. An 8" square pan is ideal for 1 1/2 dozen pan rolls. Brush surface with oil. Cover pans loosely with plastic wrap. Refrigerate 2 to 24 hours at moderately cold setting. When ready to bake, remove from refrigerator. Uncover. Let stand 10 minutes while preheating oven. Puncture any surface bubbles with oiled toothpick just before baking. Bake at 375 degrees for 20-25 minutes, or until done. Bake on lower oven rack position for best results. Remove pans or baking sheet immediately. Cool on racks. Brush with butter or frost and decorate as desired. Makes 2 coffee cakes or 2 1/2 to 3 dozen pan rolls.

COOLRISE APRICOT COFFEE BRAID

3/4 cup dried apricots **1/2 teaspoon ground ginger**
1 1/2 cups water **1 recipe Coolrise Sweet Dough**
1/3 cup sugar
 Simmer apricots in water, uncovered, 20-30 minutes, or until tender. Drain; mash fruit well with fork. Add sugar and ginger to fruit; stir to mix well. Cool. When ready to shape Coolrise Sweet Dough, divide in half. Round up each portion. Roll 1 portion into a 9 x 14" rectangle on lightly greased board. Cut lengthwise into 3 equal strips. Spread 2 tablespoons apricot mixture down center of each strip. Pinch lengthwise edges of strip together on a lightly greased baking sheet, starting at center and braiding to each end. Tuck ends under braid. Repeat procedure with second half of dough and apricot mixture. Cover loosely with plastic wrap. Refrigerate as recipe for Coolrise Sweet Dough directs. Bake at 375 degrees for 25-30 minutes or until done. Bake on lower oven rack position for best results. Remove from baking sheets immediately. Cool on racks. Brush while warm with melted butter, frost when cool with Confectioners' Sugar Frosting or sprinkle with sifted confectioners' sugar. Makes 2 coffee braids.

MILLIONAIRE PIE

1 can sweetened condensed milk **1 lge. can crushed pineapples, drained**
1 large can sliced peaches, drained **1 large container Cool Whip**
 Mix ingredients and pour into 2 baked pie shells. Chill and serve.

SPOTS & STAINS

—a laundry problem

■ Treatment of spots, stains and heavily soiled areas is one of the most important steps in producing successful laundry results. The trend to easy-care fabrics, push-button laundering and tailor-made laundry aids have created the tendency of the homemaker to overlook spot and stain removal as a part of the laundry procedure. Pretreatment is still necessary, and frequently when stained garments are tossed untreated into the washer with the rest of the wash load, some stains may be set in forever. Many synthetic fibers and finishes stubbornly retain certain soils which cotton or linen readily give up in a regular wash. *Pretreatment of oily soils on polyester and permanent press items is absolutely essential.* Certain protein-type stains can be set by hot water if not treated first in a cool soak, no matter what the fabric. Stubborn stains may need repeated treatment, some may need a long soak.

A routine part of preparation should be the treatment of all spots, stains and heavily soiled areas *before* a garment is added to the wash load. There are many stain removal aids available. Correct usage of them will produce excellent results, but a little "know-how" is important. The following guidelines and chart should prove helpful:

1. Keep stain removal chart or book handy for quick reference.
2. Assemble a stain removal kit and store it with the chart or book in the laundry area. Keep the supplies in a convenient place but out of the reach of children. Include a bowl, measuring cup and spoons, brushes, medicine dropper and syringe. You will need four types of removers on hand.

Absorbent materials—Absorbent powders such as powdered chalk, talc or cornstarch. Absorbent cotton and cloths, blotters and

sponges.

Soaps and Detergents—Soap or detergent including liquid and enzyme laundry products.

Solvents—Acetone, chemically pure amyl acetate, rubbing alcohol, steam distilled turpentine, trichlorethane and perchlorethylene.

Chemical Stain Removers—Bleaches, chlorine and peroxygen, vinegar and color remover.

3. Act promptly—fresh stains are easiest to remove.
4. Identify the stain and fabric. Save hangtags for fiber content information.
5. Use correct treatment—the same one doesn't work for all. Methods may include soaking, sponging, applying a stain remover or a combination of these steps.
6. Always test an inside seam for fastness to chemical stain removers. Chlorine bleach should be used in glass, plastic or enamel containers rather than metal and *never mixed with ammonia or products containing ammonia.*
7. Use all stain removers according to package directions. Some are flammable, some are poisonous and some can be destructive to the fiber. Observe all cautions for use and storage.
8. Rinse thoroughly when using stain removers. Follow treatment with a complete wash and rinse cycle when using a solvent. Never put garments treated with solvent into a dryer without washing first.
9. If stains cannot be removed promptly and to be sure they are not overlooked on washday, tie a knot in pieces of laundry which will need pre-treating.
10. If fabric is non-washable, be sure to mark and identify spots and stains when sending clothes to a commercial cleaner.

TYPE OF STAIN

TREATMENT FOR WASHABLE FABRICS

Adhesive Tape	Scrape gummy matter from stain carefully with a dull knife; avoid damaging fabric. Sponge with trichloroethane. Launder.
Beverages (alcoholic & soft drinks)	Soak in cold water, wash in warm sudsy water, rinse. If stain remains, soak silk, wool or colored items in 2 tablespoons hydrogen peroxide to 1 gallon water for a half hour and launder. Soak white linen, rayon and cotton 15 minutes in 1 tablespoon bleach to 1 quart water. Launder.
Blood	Soak in cool water and enzyme laundry product. Launder.
Candlewax	Apply ice to harden wax. Remove surface wax with dull knife. Place the stain between clean white blotters or several layers of facial tissues and press with warm iron. To remove remaining stain, sponge with trichloroethane. Rinse thoroughly, launder.
Catsup	Soak in cold water. Pretreat remaining stain with soap or detergent, rinse, launder.
Chewing Gum	Apply ice to harden gum. Scrape as much as possible without damaging the fabric. Sponge with trichloroethane, rinse and launder.
Chocolate & Coffee	Soak in lukewarm water with enzyme laundry product. Launder.
Cosmetics	Pretreat with soap or detergent. Launder.
Crayons	Pretreat with soap or detergent. Launder.
Cream, Ice Cream, Milk	Soak in warm water with enzyme laundry product. Launder.
Deodorants & Anti- perspirants	Rub soap or detergent into stain and wash. If stain remains, bleach according to fabric.
Dyes & Color Running	Soak in cold water. If necessary, rub soap or detergent into any remaining stain, then rinse. If bleach is needed, use chlorine bleach or color remover according to directions.
Fruits & Berries	Soak with enzyme product, launder. If stain remains, use chlorine bleach. Rinse thoroughly and launder.
Grass	Soak using enzyme detergent product. Launder. Bleach if necessary.
Gravy	Soak in cool water with enzyme detergent. Launder.
Grease & Oils	Scrape off excess. Rub detergent into stain. On some wash and wear or permanent press fabrics, allow detergent to stand on stain for several hours. Launder in hot water. If stain persists, sponge thoroughly with trichloroethane. Rinse thoroughly and launder.
Ink Ballpoint	To remove fresh stains, sponge with amyl acetate if fabric is made of acetate, Arnel, Dynel, Verel; use acetone on other fabrics. Old stains may also require bleaching. Rinse well and launder.
Mimeograph & Printing	For fresh stains, rub with soap or detergent or sponge with turpentine. Rinse in hot water and launder. For stubborn stains, sponge with turpentine; for aluminum paint stains use trichloroethane. While stain is still wet with solvent, work soap or detergent into it, put the article in hot water, and soak it overnight. Launder. If stain remains, repeat treatment.
Lipstick	Loosen stain with trichloroethane. Rub soap or detergent in until stain outline is removed. Rinse and launder.
Mercurochrome, Merthiolate, and Metaphen	Soak overnight in warm soap or detergent solution that contains 4 tablespoons of ammonia to each quart of water. Rinse well, launder.
Mildew	Launder with soap or detergent and chlorine bleach if color and fabric permit. If stain remains, sponge with hydrogen peroxide. Rinse well and launder.
Mud	Allow stain to dry, brush well, sponge with cold water. Launder.
Mustard	Rub soap or detergent into the dampened stain; rinse. If stain persists, soak in hot soap or detergent solution for several hours, if necessary. If stain remains, use chlorine or sodium perborate bleach or hydrogen peroxide depending on fabric. Rinse well.
Paint, Varnish	For fresh stains, rub soap or detergent or sponge with turpentine. Rinse with hot water and launder. For stubborn stains, sponge with turpentine; for aluminum paint stains use trichloroethane. While the stain is still wet with solvent, work soap or detergent into it, put the article in hot water, and soak overnight. Launder. If stain remains, repeat treatment.
Perspiration	Launder with soap or detergent and hot water. Bleach if necessary.
Perfume or Cologne	Wash immediately in soap or detergent and hot water—don't let stain age. Bleach if necessary.
Rust	Moisten area with lemon juice and salt, dry in sun. Rinse and launder.
Urine	Sponge stain with cool water or soak for at least 30 minutes. If stain remains, work a soap or detergent into it, then rinse. Launder. If color and fabric has changed, sponge stain with ammonia or vinegar and rinse well. Launder.
Yellowing due to chlorine bleach-fabric reaction	Rinse fabric thoroughly. Use a color remover according to directions.



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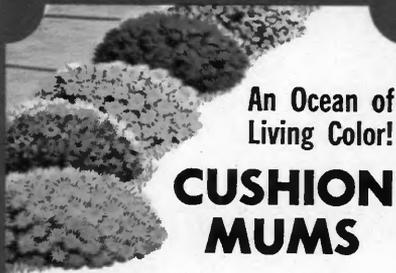
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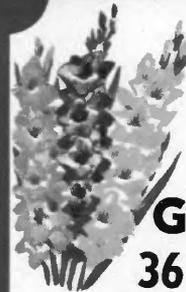


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