

Kansas Farmer

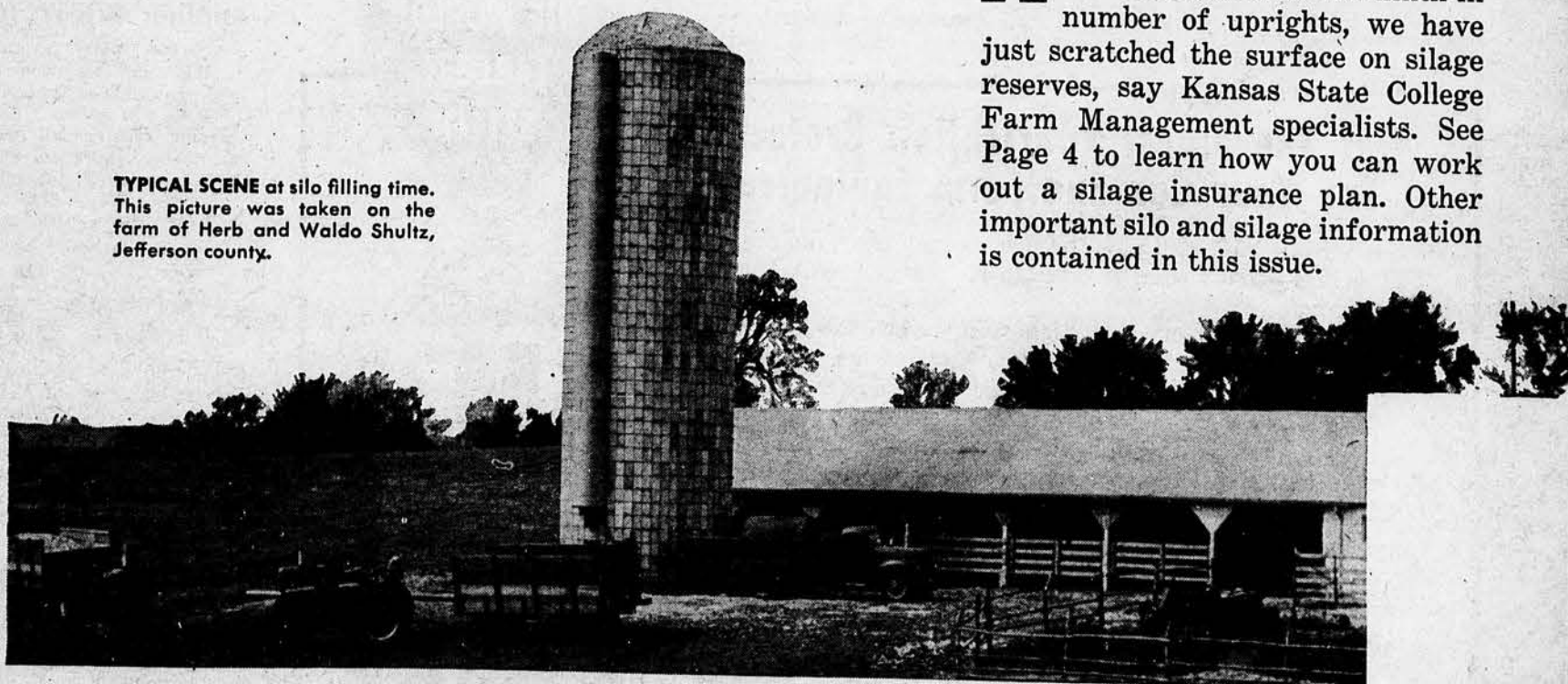


PLANNING AND HARVESTING the silage supply is a No. 1 problem on Kansas' farms. Here Everett Bracken is doing custom work on the Authur Carder farm, Jefferson county.



Kansas Feed Problems Are in the Spotlight

TYPICAL SCENE at silo filling time. This picture was taken on the farm of Herb and Waldo Shultz, Jefferson county.



ALTHO Kansas ranks first in number of trench silos and ninth in number of uprights, we have just scratched the surface on silage reserves, say Kansas State College Farm Management specialists. See Page 4 to learn how you can work out a silage insurance plan. Other important silo and silage information is contained in this issue.

- So You'll Never Run Out of Feed! Page 4
- What's Ahead for Agriculture Page 8
- Where Do the Birds Go? Page 20

AAA SPEED KINGS WIN WITH MOBIL OIL!



1950
HENRY BANKS



1952 CHUCK STEVENSON



1951 TONY BETTENHAUSEN

For Three Straight
Years, Auto Racing's
Top Drivers
Have Insisted on
This Top Engine
Protection!



THE SUPER
DETERGENT
OIL

THE OIL THAT
DRASTICALLY
REDUCES
ENGINE WEAR

THE OIL THAT
SAVES OIL

THE WORLD'S
LARGEST
SELLER



Get The Finest Lubrication Protection For Your Car and Farm Equipment!

Supreme driving skill plus the finest engine performance, race after race—that's what it takes to be crowned AAA National Champion.

Each of these men scored highest in the last three years' top AAA races... against the nation's best drivers... and each chose Mobil Oil for unsurpassed engine performance.

This heavy duty motor oil with new super detergent action will keep your farm equipment—cars, tractors, trucks—on the job longer, even under the most severe operating conditions. For fewer repairs and overhauls insist on Mobil Oil!

Ask for it at Service Stations, Car Dealers and Garages!



Mobil Oil

FOR 50 YEARS THE GREATEST NAME IN MOTOR OIL

Mobil Oil—Under API Classification, recommended "For Services ML, MM, MS, DG."

Kansas Grange Is High in U. S. Contest

Morning Grange, Olathe, is one of the top 10 in the United States. The honor was announced in results of a national community service contest conducted by the National Grange, Washington, D. C. Of 37 state winners in the national contest, 10 top granges were chosen. Final placing of the 10 to choose a first-place winner of \$1,000 cash, will be done by a person inspection of accomplishments by a judging group of nationally-famous people. Howard F. Russell is master Morning Grange.

Second-place winner in Kansas is Ivanhoe Valley Grange, Garden City. Frank W. Lightner, master. Third place is Vinland Grange, Vinland, N. Hoskinson, master.

Announce 1954 Wheat Price Support

National average price support for 1954-crop wheat will be not less than \$2.20 a bushel, announces the USDA. This minimum support price is 90 percent of the August 15, 1953, wheat parity price of \$2.45.

Corn Price Support

Price support level for 1953-crop corn will be \$1.60 a bushel, announces the USDA. Loans and purchase agreements will be available to farmers from time of harvest thru May 31, 1954, and will mature on July 31, 1954.

Cherokee Best Oat

Best yielding oats variety in Kansas this year was Cherokee, reports L. Willoughby, Kansas State College Extension crops and soils specialist. State wide tests show Cherokee average yield was 38.2 bushels; Mo-0205, 37.7 bushels; Clinton, 27.2 bushels and Andrew, 37 bushels. The 1953 oats crop fell 1 bushels below the 1947-53 average of state experimental tests.

New Storage Payment

Storage payments will be made to farmers who redeem 1952-crop resealed wheat, corn and oats during the 1953-54 reseed period, announces the USDA. Payments on redeemed grain will be prorated for length of extended time the grain is under loan. Details are available from local PMA office.

Another WIBW Tour

Another WIBW agricultural tour to the Hawaiian Islands is underway. The 1953 group sailed from California October 26, will spend 11 days there. The travelers will see all principal points of interest, and have plenty of time too, for shopping, personal sightseeing and other activities.

KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER... Publisher (1893-1951)
121-123 West 8th St. Topeka, Kansas
Vol. 90, No. 21

H. S. BLAKE... President and Publisher
Raymond H. Gilkeson... Editor
Dick Mann... Associate Editor
Gordon West... Associate Editor
Carl Eiche... Associate Editor
Florence McKinney... Women's Editor
Dr. C. H. Lerrigo... Medical Department
Mike Wilson... Livestock Editor
J. M. Parks... Protective Service
Scherl L. Walquist... Advertising Manager
A. E. Carson... Circulation Manager

Member: Audit Bureau of Circulations, Agricultural Publishers Association, National Association of Magazine Publishers.

Published the first and third Saturdays each month at Eighth and Jackson streets, Topeka, Kan., U. S. A. Entered as second class matter at the post office, Topeka, Kan., U. S. A., under Act of Congress of March 3, 1879.

Three years, \$1; one year, 50 cents. Copy

Keep Out Cold, Wind, Rain, Snow

**Close in your porch!
Do it yourself—it's easy!**

Just tack on one of Warp's transparent Window Materials over your screens. Turn windswept porches into extra, warm sunlit rooms. Use all winter long—for work, play or storage.

This porch was enclosed in two hours for only \$11.50, and is easily converted back to a screen porch each summer.

**Same Porch—Later!
Cost Only \$11.50**

GLASS-O-NET

Warp's

GUARANTEE

Today, as thruout our 29 years of making Top Quality Window Materials, we Guarantee Satisfaction or Your Money Back. Only the Genuine is branded "Warp's" along the edge.

WARP BROS., Chicago 51, *Harold Ways Pres.*

You can make a Winter-Tite

STORM DOOR for only \$1.50

... a Storm Window for less

Anyone can make a wintertight storm door for only \$1.50—a storm window for less—or enclose a 6' x 9' porch for as little as \$11.50. Just tack one of Warp's shatterproof Window Materials right over your screens.

Gives positive protection against cold, wind, rain, snow. Pays for itself the first year. Users report fuel savings up to 40%. It's just like money in the bank. Warp's Window Materials are all cheaper than glass and will last for years.

Millions of Home Owners and Renters prefer *Warp's*

Folks in big cities, small towns and on farms are using Warp's Window Materials for unbreakable Basement, Barn, Garage, and Poultry House Windows. They all let in Sunshine Vitamin D. For your protection, every yard has the name "Warp's" branded along the edge—the name preferred by millions of satisfied users.

Take This Ad With You To Your Dealer

**Just Cut
and Tack On**

all
36"
wide

**Warp's
FLEX-O-GLASS**

only 26¢ lin. ft.

**Warp's
WYR-O-GLASS**

only 35¢ lin. ft.
28"-28½ lin. ft.

**Warp's
GLASS-O-NET**

only 24¢ lin. ft.

**Warp's
SCREEN-GLASS**

only 17¢ sq. ft.
28", 36" & 48" widths

Sold By Local Hardware & Lumber Dealers Everywhere

So You'll Never Run Out of Feed!

We have just scratched the surface when it comes to silage reserves, says H. C. Love, Extension Economist

By DICK MANN

IT SEEMS CRUEL to talk about silage reserves when many of you don't have enough feed for current operations. But, following 2 of the worst feed production years in recent Kansas history, it is time we stopped to completely review and perhaps revise our thinking on this subject.

Altho Kansas ranks first nationally in number of trench silos and ninth in number of upright silos, we have just scratched the surface on silage reserves, believes H. C. Love, Extension economist in farm management, Kansas State College. "By a careful study of the present situation," he says, "we may be able to work out a more stable long-range plan on feed reserves."

What every one of you probably would like to know is a formula by which you can plan never to run out of feed. Is this possible? How can you do it, and how much would it cost?

To see whether a workable plan can be found, farm management specialists picked an average-size farm in Cloud county as an example and went on from there to see how a farmer in that county can guarantee his feed supply.

An average-size farm in Cloud county contains 303 acres, of which about 200 acres would be in cultivation. If we assume the remainder includes 95 acres in native grass and that 25 acres of the cultivated land were seeded to brome and alfalfa for pasture, then the pasture would support conservatively 49 animal units during summer months—that is, 49 mature cattle or their equivalent in younger cattle or in sheep.

While 3 tons of silage per head are frequently considered adequate for the wintering period in Cloud county, it might be safer to use 3½ tons to allow for late or short pasture seasons such as we now have.

Now, a study of silage production records in Cloud county show that during the 24-year period from 1929 to 1952 sorghum silage yields varied from a low of 1.8 tons per acre in 1934 to a high of 10.5 tons per acre as a county average in 1950.

Applying this yardstick to the 49 head of cattle on our average-size farm we find the 49 head would need 171 tons of silage annually at 3½ tons a head. At the 1934 low of 1.8 tons per acre it would have been necessary to plant 95 acres of sorghum; but in the high year of 1950 only about 16 acres would have been required.

Since it is not possible to know in advance of planting what the yield will be, some long-time averages may be helpful. During the 24 years, 1929-52, average yearly yield of sorghum silage in Cloud county was 6.6 tons an acre.

You might assume, then, that to get your 171 tons of silage a year, you could be assured of meeting your needs by planting 26 acres to sorghum each year, based on average 24-year yields of 6.6 tons an acre.

This formula was applied to our example farm to see just what would have happened during the 24 years

[Continued on Page 22]



KANSAS STATE COLLEGE economists recommend farmers greatly increase silage reserves to avoid feed crisis problems. Here, W. E. (Bill) Starkey, unloads silage on Arthur Carder farm, Jefferson county.



TRENCH SILOS can be used to increase silage storage for costs ranging from 50 cents to \$5 a ton of capacity.

Kansas Farmer

News and Comment

Great Event for Breeders

PRESIDENT Dwight D. Eisenhower personally dedicated the new headquarters of the American Hereford Association in Kansas City, Friday, October 16. An indication of the importance of livestock in our economy.

Located at 11th and Jefferson streets, the new building was about 85 per cent completed at time of dedication. The new headquarters building is 4 stories and stands on a bluff overlooking the stockyards. It is so constructed that 3 of the 4 stories are at ground level due to slope of the ground.

North of the building will stand a monument to the Hereford breed and Hereford breeders. This structure consists of a pylon 100 feet tall topped with a Hereford bull made in true colors of plastic and fiberglass, lighted from within and also from outside.

Changes for the Better

SECRETARY OF AGRICULTURE Ezra Taft Benson feels his reorganization plan for the Department of Agriculture will give better service to farmers, put all work on a more business-like basis, add efficiency thruout the department, and still decentralize operations. We got this impression while visiting with him at Kansas City during the huge Future Farmers of America convention where he spoke.

This reorganization proposal was made under authority of Reorganization Plan No. 2, enacted by the last session of Congress. By the way, you know the Secretary of Agriculture can do only what Congress tells him he can do. He can't just decide overnight to change the farm program. It is well to remember that.

The new Department organization puts all service agencies under 4 main groups: 1—Federal-State Relations; 2—Marketing and Foreign Agriculture; 3—Agricultural Stabilization; 4—Agricultural Credit. "This streamlines the Department for better service to farm families and for simplified internal organization," Secretary Benson said.

Community, county and state farmer committees which have administered many phases of conservation and price-support programs will be continued. It appears farmer participation actually will be increased, because one big objective in the new plan is to bring USDA programs closer to farmers. For your information, here are the 4 main groups provided for under the new plan, and agencies which will be included in each. You may wish to clip this and save for future reference:

Federal-State Relations: Agencies in this group will include—Agricultural Research Service, Forest Service, Federal Extension Service, Soil Conservation Service, Agricultural

Conservation Program Service, and Co-operative Service.

Marketing and Foreign Agriculture: Agencies in this group—Agricultural Marketing Service and the Foreign Agricultural Service.

Agricultural Stabilization: Agencies in this group—Commodity Stabilization Service (including the administration of Commodity Credit Corporation programs), Federal Crop Insurance Corporation, and Community, County and State Committees.

Agricultural Credit: Agencies in this group—Farmers Home Administration and Rural Electrification Administration.

You have heard a lot of criticism about eliminating regional offices of the Soil Conservation Service. Secretary Benson considered them entirely unnecessary. Someday we will tell you how many million dollars this one move will save. In the meantime, State Soil Conservation offices will be strengthened, bringing the service closer to farmers, increasing actual service farmers receive. The idea of giving better service at lower cost is something every government department should practice diligently.

No doubt you remember the Farm Credit Administration will become an independent agency on December 5, as provided by legislation passed by the last Congress. Therefore it is not affected by this reorganization.

Putting all service agencies of the Department of Agriculture in 4 main groups instead of the earlier 21 groups looks like good business.

Study Conservation

SOIL CONSERVATION education in Kansas schools is subject of a state-wide committee's work in preparing a guide for promotion of the idea. Twelve people are outlining procedure in preparing conservation material for schools. The guide will include suggestions for methods of teaching, materials and pupil activities.

Education representatives comment that present textbooks contain conservation material, and enough reference material is available, if teachers have some guide for its use. First suggestion of a textbook on Soil conservation came from representatives of State Association of Soil Conservation districts, at a recent meeting of agricultural and educational groups in Topeka.

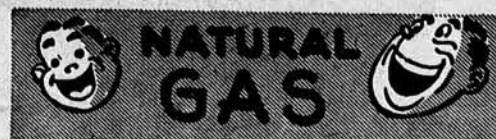
Agricultural leaders named to the state committee: Fred Sykes, Salina, Soil Conservation Service; Nathan K. Babcock, Hiawatha, chairman of education committee of the State Association of Soil Conservation Districts; Larry Wagner, Mission, president of Kansas Association for Wildlife and Don Christy, Scott City, prominent Kansas farmer.

Value of Beekeeping

KANSAS 4-H CLUB members are being told of advantages of beekeeping, by the Kansas State Beekeepers Association. Emphasis is on profits to be made, and on necessary pollination. Emery Webb, Cowley county beekeeper and state president, says "For each dollar the beekeeper receives, \$15 to \$20 worth of pollination services are returned to agriculture." He reports there are now 63,000 colonies of honeybees in Kansas, each colony having 70,000 to 100,000 bees.

"If all farmers would take advantages of established bee yards, it would be the most effective means of stepping up legume seed production," Mr. Webb says.

Maybe you think beekeeping in a year like this wouldn't be worthwhile. But beekeepers in a 4-county area around Manhattan collected far more honey this summer than they were



"Mother: Son, you're always wishing for something you haven't got!"

"Little Jimmy: But Mother, what else is there to wish for?"

"The barber shop is the place to get a close shave, not the railroad crossing."

"Are you saving any money, Jack, since you and Betty started keeping a budget?"

"Sure have. By the time we have the thing balanced each evening, it's too late to go anywhere."

"When your face is toward the sunshine, the shadows fall behind you."

"Teacher was a little puzzled for a minute when she read this definition on a quiz paper: A cereal is a film which lasts several weeks."

"Nothing can sit still and make a profit, except a hen."

"Sure can't trust people these days. Somebody slipped me a bum quarter."

"Oh, let me see it."

"Can't...I gave it to the milkman."

expecting. Ralph L. Parker, Kansas State College entomologist, explains it like this. Most observers had expected dry weather to cut the 1953 crop of honey to just what nectar could be collected from yellow and white sweet clover during May and June. The unexpected factor was that farmers in the area did not leave their alfalfa for seed, but cut it frequently, with the result that staggered cuttings produced an almost continuous nectar flow. Maybe the bees have taught us a good lesson.

Here's Tax Relief

IF YOU'RE LOOKING for tax relief, and who isn't, there is one place you can get it. The U. S. Department of Agriculture has just called attention to a provision in Federal law under which any grain producer who has built or builds a corn crib or grain bin after December 31, 1952, will be allowed a deduction on his Federal income tax.

The deduction is for amortization of the structure over a period of 60 months following date of construction. Any remodeling or alteration of a grain storage facility which increases capacity of the structure for storage of grain is eligible for amortization deductions.

How do you get this deduction? When you fill out your income tax statement, just make a statement explaining the deduction. Supporting evidence may be required by the Internal Revenue Service of your claim that the facility on which amortization deduction is taken is in fact a grain storage facility within the definition of the Act.



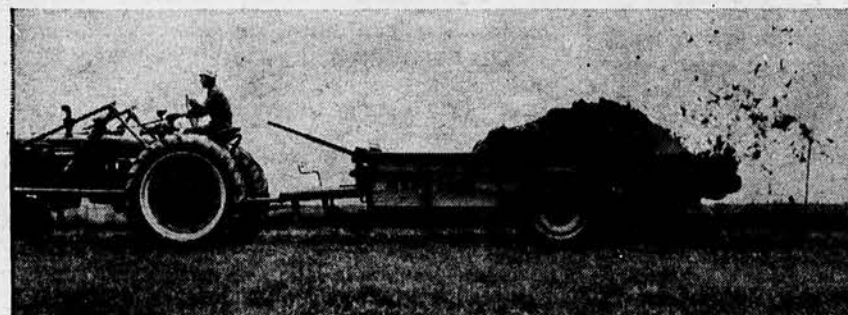
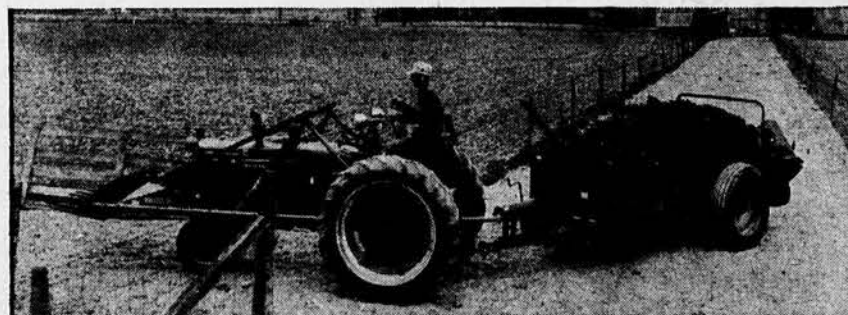
"Jane was afraid you might catch her cold, Leslie, so she went out with Stan."



"Well, thank goodness, you've finally learned how to come in without slamming the door."



Power-load, PTO spread 120 bushels at a time



with a New Idea-Horn Hydraulic Loader and No. 15 PTO Spreader

NEW IDEA's brand new, husky No. 15 PTO is designed for the farmer with an almost daily problem of cleaning manure out of the barn. It easily shreds hard-packed, power-loaded manure and spreads it fast in big 120 bushel loads. Weather or field conditions won't stop you — as long as you can get your tractor into the field, you can spread.

Also, consider these advantages: 1. Bigger capacity means fewer trips. 2. The load rolls easily on big (9.00-24) tires. 3. Because the NEW IDEA PTO spreader can be operated while standing still, you can unload in one spot for temporary storage. 4. You can maneuver it to cover small, hard-to-reach areas. 5. And you can spread

cob or straw bedding in loafing area or feed lot.

PTO gives you four feed rates for each forward gear on your tractor. The rugged corrosion-resistant wooden box — with steel flares — is double riveted to the steel frame. Every part of this new spreader is built for heavier use than you will ever give it.

This latest NEW IDEA Spreader is the biggest of a famous family. You can choose a ground driven 2-wheel, 90 bu. model; a 2-wheel, 65 bu. model; or a 4-wheel, tractor or horse-drawn, 75 bu. model. Whatever you need in a spreader, remember it's a good idea to buy a NEW IDEA. Talk to your NEW IDEA dealer soon.

NEW IDEA FARM EQUIPMENT COMPANY

Dept. 907, Coldwater, Ohio

Division AVCO Distributing Corporation

Send free literature as checked:

Name _____

Address _____

County _____ State _____

- ☐ No. 15 PTO Spreader (120 bu.)
☐ No. 12-A Spreader (90 bu.)
☐ No. 14-A Spreader (65 bu.)
☐ No. 10-A Spreader (75 bu.)
☐ Lime Spreader Attachment
☐ New Idea-HORN Loaders and Attachments
☐ I farm _____ acres
☐ Need for schoolwork

USING SILAGE FOR BEEF CATTLE

By V. E. McAdams, Kansas State College Livestock Specialist

SILAGE and hay crop silage most nearly substitute for good pasture, which heads list of roughages for livestock.

Advantages of silage greatly outnumber disadvantages. Here is a quick comparison:

Silage Advantages

1. Increases livestock production on an area of land, and increases feeding value per acre of forage.
2. Provides succulent feed at any season of the year and provides more T.D.N. (total digestible nutrients) per acre.
3. Crops can be ensiled when weather does not permit curing them into hay or dry fodder, with a minimum of labor.
4. There is usually a smaller loss of nutrients when a crop is ensiled than when cured in the field as hay or dry fodder. The difference is especially great in the case of carotene.
5. Silage is eaten practically without waste.
6. Weedy or insect-damaged crops may produce satisfactory silage.
7. Silage can be a cash crop on some farms and can be stored for long periods. (Eleven-year-old silage has been fed successfully at the Colby branch experiment station.)
8. Feed stored as silage is good in-

surance for years when feed is scarce and high.

9. Storage space for each pound of forage stored is less for silage. A cubic foot of storage space will hold 4 pounds of dry matter in the form of hay, 12 pounds in the form of corn silage and 14 pounds in the form of grass silage.

10. Silage has twice the feeding value per acre as dry fodder.

11. You may use numerous crops for ensiling, including sorghums, corn, alfalfa, sweet clover, brome grass, oats, wheat, other cereals, Sudan grass and prairie grass.

At Manhattan, average silage yields for the last 5 years have been: Sorgho, 18.02 tons an acre; corn, 11.81 tons, and kafir, 11.88 tons.

Milk production per acre from silage has been: Sorgho, 3,750 gallons; corn, 2,750 gallons and kafir, 2,719 gallons.

Beef produced from one acre of silage has been: Sorgho, 1,850 pounds; corn, 1,315 pounds, and kafir, 1,253 pounds.

Disadvantages

1. Labor and machinery costs are higher than for hay.
2. Special equipment is needed to handle heavy crops efficiently.
3. Strong silo is needed for grass silage.

IDEAS ON TRENCH SILO CONSTRUCTION

By LEO T. WENDLING, Kansas State College Farm Structures Specialist

I. Location: Factors to Consider:

- (1) Drainage—select area that is well drained and not subject to flooding. Hillside locations are best. It is important to see that water does not drain into the silo, as well as draining the silo itself.
- (2) Soil characteristics—select site with firm soil that stands well; avoid very sandy or rocky sites.
- (3) Snow drifting—avoid sites where heavy snow drifting is common.
- (4) Convenient to feeding area — sites adjacent to feeding area are preferred. This is especially true if self-feeding is planned. This factor is less important for reserve storage.

II. Size of silo to build—will be determined by herd size, rate of feeding, and length of feeding period. It is best to adjust the cross-sectional area so a 4-inch to 6-inch slice is removed from the face at least every 2 days in normal feeding. Well-packed silage in trenches will weigh about 35 pounds a cubic foot for corn or sorghums and 40 to 50 pounds for grasses and legumes. Added capacity can be secured by increasing length of silo. Filling 2 or more similar silos rather than one large silo has some advantages when reserve storage is considered.

III. Types of trench or horizontal silos:

- (1) Underground trench, lined or unlined—adapted to hillsides or areas with good drainage.
- (2) Above-ground horizontal silo — adapted to level terrain and areas with seepage problems. Easier to place in convenient location with regard to feed lots.
- (3) Combination above and underground trench.

IV. Recommended construction practices:

- (1) Depth—secure maximum depth possible consistent with economical construction.
- (2) Width—least width possible with equipment used for excavation maintaining convenience of entering and leaving. Ten to 12-foot bottom width recommended.
- (3) Length—adjusted to secure desired capacity.
- (4) Sidewall — smooth, uniform, tapered to top. Slope of 3 to 4 inches per foot of depth recommended on earth. This may be reduced for concrete-lined trenches.

(5) Floors—should drain to surface when possible. Need a minimum slope of one foot per 110 feet on earth floors or 6 inches per 100 feet on concrete floors. Some type surface is desired on floor to facilitate silage removal. Concrete is best.

(6) Covers—optional, depending on length of storage anticipated. All reserve storage should be covered. Four inches of earth uniformly packed, or 3 inches of agricultural lime make good covers. Earth cover may present a problem on removal if frozen. Alternative covers include Sisal-kraft paper, covered with chopped straw or old feed. Six to 8 inches of chopped straw that is moistened and seeded with oats or similar material to make a root sod is commonly used. Roofs are of questionable value other than to keep snow from drifting into silo.

V. Cost of building trench silos:

(1) Unlined trenches in average soil can be built for about 50 cents per ton of storage. Such trenches will serve from 3 to 5 years in average soils. Many serve 10 to 12 years in firm clay soils of Western Kansas.

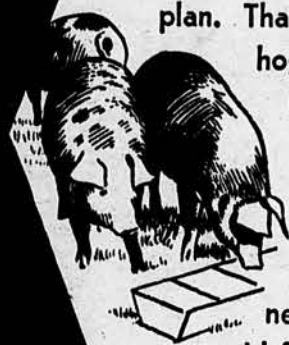
(2) A trench with earth walls and concrete floors can be built for about \$1.50 per ton of storage capacity, depending on depth of silo.

(3) Concrete-lined trenches can be built for about \$5 per ton of storage capacity and should give 25 to 30 years service with little maintenance.



"When you're finished, young man, you come in and help me with my dishes?"

YOU CAN FEED THEM CHEAPER



IF YOU RAISE HOGS . . .

Put Occo Mineral-Vitamin Supplement and Occo-Lak in one self feeder. In another feeder put Occo-Trate 40. Self feed or hand feed your home-grown grains. Occo can be adapted to fit your feeding plan. That's how easy it is! And here is what your hogs get . . . Occo Mineral-Vitamin Supplement and Occo-Lak supplies all the major and trace minerals pigs need . . . all the Vitamin D needed to make up for winter's short supply . . . all the live yeast that adds feeding power to grain. Occo-Trate 40 is the new, completely balanced vitamin and amino acid formula that is so rich it requires only about $\frac{1}{3}$ as much as old fashioned concentrates. Start the Occo Complete Feeding Program right now. You'll find it cheaper for you — better for your hogs.



IF YOU RAISE DAIRY OR BEEF CATTLE . . .

You can add Occo Mineral-Vitamin Supplement and Occo-Lak to feed or self feed or hand feed, whichever way you prefer. You'll find your stock needs only a cheap, single protein (or no protein at all) when they have access to Occo every day . . . and here's why. Occo increases the number and activity of the bacteria in the rumen (or paunch). These Occo-Fed rumen "bugs" then work harder. They rip tough feed fibers apart and unlock the natural protein and vitamins so your stock can get more good from what they eat. Roughage is high in tough fiber . . . even good alfalfa hay is 28.9% fiber. So make sure your cattle and dairy cows get Occo every day . . . you'll get more milk, better calf crops and cheaper beef gains.



Occo

Occo



MORE Working Hours
...because this New Oil protects your Tractor against effects of:

DUSTY CONDITIONS
 HIGH MOISTURE CONDITIONS
 HEAVY LOADS
 LONG IDLING PERIODS
 RUSTING IN STORAGE



Sinclair EXTRA DUTY Motor Oil has from 50 to 100% higher detergency—you get up to 9 times less wear on your engine than with ordinary heavy duty oils. Protect your tractor, truck and car against friction wear, acid wear and costly wear due to rusting. Ask your Sinclair Representative for...

**SINCLAIR
 EXTRA DUTY
 MOTOR OIL**

...in quart cans and 5-gal. containers

Western Land Roller
 CENTRIFUGAL and TURBINE PUMPS FOR IRRIGATION

AVAILABLE WITH Direct Connected Electric Motor, Flat or V-Belt Drive or Right-Angle Gear Drive

ANY CAPACITY 300 TO 2500 GALLONS PER MINUTE, AND ANY LIFT FROM 10 TO 300 FEET

MANUFACTURED BY
Western Land Roller Co.
 HASTINGS, NEBRASKA

WHAT'S AHEAD FOR AGRICULTURE

Future not too dark, say Kansas State College economists

THE FUTURE for agriculture and the general economy is not too dark, believe Kansas State College economists. In a recent meeting of Extension personnel, economists from the college outlined the following forecasts:

General business outlook: Adjustments downward should be mild. Industry apparently is getting ready to make adjustments to a peacetime economy with less fluctuation in price than did agriculture. The economy has reached its peak and employment and industrial output will decline somewhat in the next 12 months. Government spending, private investments and a reduction in taxes will help keep any downward trend from getting out of hand.

Livestock and Meat: Total 1953 production of meat is estimated at 5 per cent over 1952 and per capita consumption of meat is estimated at 148 pounds compared to 144 pounds in 1952 and 136 pounds in 1951. Little increase in per capita meat supplies is in prospect for 1954. A small increase can be expected in supply of pork available, little or no change in amount of beef and veal, and a very slight drop in lamb and mutton. Total slaughter of cattle and calves in 1953 likely will exceed 1952 by 30 to 32 per cent but, with a normal calf crop, cattle numbers on farms by January 1, 1954, will be about the same as for January 1, 1953.

The outlook gives some promise for cattle prices to show more stability in the next few years than previously seemed likely, but this does not necessarily mean an uptrend in price. Should demand weaken, cattle prices could move to a lower level.

On the basis of an 84 million pig crop, hog slaughter under Federal inspection in the 1953-54 market year (beginning in October) may be 7 to 9 per cent less than for the 1952-53 season. Favorable hog prices should continue to exist for another 10 months (from October, 1953).

About 16 per cent more sheep and lambs were slaughtered the first 7 months of 1953 than for the same period a year earlier. This means a reduction in sheep numbers on farms. Kansas spring lambs should be in a very strong position next April, May, June.

Poultry and Eggs: Egg prices are not expected to fluctuate much this coming year. However, Kansas, which normally exports 50 per cent of its egg production, is losing outside markets due to poor quality of some eggs shipped and development of egg production in states once offering good markets for Kansas eggs. Only those farmers who want to specialize in egg pro-

duction should enter the field at this time. Small farm flocks are becoming less and less desirable to both producers and marketing outlets.

Turkey outlook: is good for this coming year, although prices will not be high. Flockowners are urged not to increase size of flocks and those not now handling flocks are urged not to get in. Any increase in turkey numbers at this time would depress the market. Some turkeys are being marketed too soon. Hens should not be marketed until 23 weeks old and toms 28. Otherwise birds do not dress out as desirable carcasses.

This year has been favorable for broilers and next year looks good. Numbers are not increased greatly. Investment of more than \$1 per bird capacity in a broiler house will break the producer, economists say. Housing should not exceed 50 to 75 cents a bird capacity.

Grain: Wheat supplies will not be reduced materially during 1954 so surpluses will continue to be the No. 1 problem.

Feed grain outlook also is one of surpluses. More than 4 billion bushels of corn are on hand. The carryover next year will be largest on record based on present trends. Corn price level should move upward in the next few weeks. Acreage allotments probably are in the picture for main producing counties. This would apply to 35 counties in Kansas. There were 88 million acres of corn planted this year. The 1954 allotment probably will be for 70 million acres.

KSC Receives Vet Literary Collection

What is believed the most valuable and comprehensive collection of veterinary literature in the Nation has been presented the School of Veterinary Medicine at Kansas State College.

It is the library collection of the late Dr. D. M. Campbell, a 1907 graduate who was owner and editor of Veterinary Medicine magazine. The gift, made thru his widow, will be known as the Dr. D. M. Campbell Collection.

Included, among other items, are complete sets, beginning in 1877, of the American Veterinary Review, now the Journal of the American Veterinary Medical association; complete sets of what is now known as Veterinary Medicine, beginning with the Iowa-Nebraska Veterinary Bulletin in 1905; also complete sets of the North American Veterinarian and several foreign publications.

Textbooks and veterinary publications not elsewhere obtainable are included in the collection.

KANSAS FEED SITUATION AT A GLANCE

By JOHN A. DOTSON, Farm Management Fieldman, Kansas State College.

Corn and grain sorghum production for 1952 was 28 per cent below 1951 and 30 per cent below the 10-year average. The 1953 production of feed grains (corn, oats, barley and grain sorghum) will be 13.7 per cent below the 10-year average. (August 10 estimate).

The 1952 roughage production, mostly hay and silage, was 26 per cent below 1951 and 15 per cent below the 10-year average. Hay production for 1953 will be 10 per cent below latest 10-year average.

Pasture conditions in 1952 were 28 per cent below the 10-year average and were only 57 per cent of normal as of July 1, 1953, lowest since 1937.

On December 1, 1952, winter wheat was only 50 per cent of normal—provided little pasture during growing season.

Combined with these figures is the fact that cattle numbers are at record high levels. On January 1, 1953, cattle numbers were 20 per cent above 10-year average; total number of roughage-consuming units was 9 per cent above 10-year average. Roughage supply per roughage-consuming unit was 26 per cent below preceding year, and 15 per cent below 10-year average.

The 1952 grain supply per grain-consuming animal was 17 per cent below the previous year, and 9 per cent below 10-year average. The 1953 grain supply will be about 4.5 per cent to 5 per cent below 10-year average. (August 10 estimate).



Could you get 10% more eggs from a flock like this? Certainly is worth trying when income from 10% more eggs is *guaranteed*. See story below.

Guaranteed Income From 10% More Eggs

*Sounds too good to be true—but
you get either 10% more eggs in
30 days or cash instead.*



How did you folks get more eggs? "We had been feeding a high priced concentrate but egg production was very disappointing. Then I switched to Nutrena Egg Feed and egg production doubled in 2 weeks. It was up between 60% and 70%." Mrs. Earl Rice, Dallas City, Ill.

Is a "lazy" flock costing you good egg money? Here's your chance to do something about it. If you switch today to Nutrena Egg Feed, you are guaranteed the income from 10% more eggs in the next 30 days.

All you do is register with your Nutrena dealer and follow the Nutrena feeding plan for just 30 days.

If in the first 30 days you don't get at least 10% more eggs than you got during the 30 days before you switched, Nutrena will pay you the difference in cash at the current price for market eggs.

For example: if you were getting 100 doz. eggs, you should get 110 doz. eggs in the first 30 days after switching to Nutrena. But if you get only 105 dozen, Nutrena will pay you cash for the difference (5 dozen) at the current price for market eggs.

This guarantee is Nutrena's way of inviting you to join the thousands of flock

owners who are already feeding Nutrena Egg Feed. Reports on 1121 flock owners who switched to Nutrena 2 years ago show they averaged 34% more eggs after 30 days on Nutrena.

We don't claim everybody will get a 34% increase. In fact, it is even possible you may not get a 10% increase in egg production. But if you don't, you still get the income from 10% more eggs. So how can you lose?

If your flock still isn't shelling out eggs like it should, it may be you really need a high production egg feed like Nutrena. And this "more-eggs-or-cash" guarantee makes Nutrena a better buy than ever.

The offer applies to all healthy flocks regardless of size, age, breed or current rate of production. Obviously, it can't apply to diseased or moulting flocks.

If you switch to Nutrena today, you get guaranteed income from 10% more eggs in the next 30 days or cash instead. Register now with your Nutrena dealer.



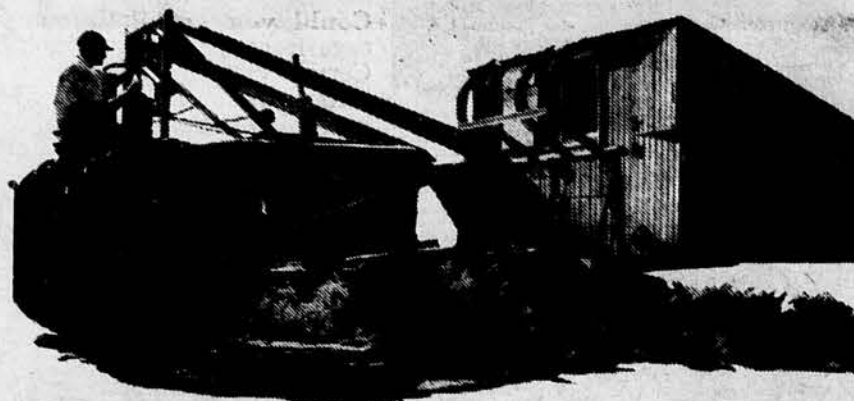
To become eligible for this "more eggs or cash" guarantee you must register with your Nutrena dealer when you switch to Nutrena Egg Feed (By Dec. 15, 1953). Why not do it today? (ADVT.) Nutrena Mills Inc., Minneapolis 15, Minn.

for the "REST" of your life...

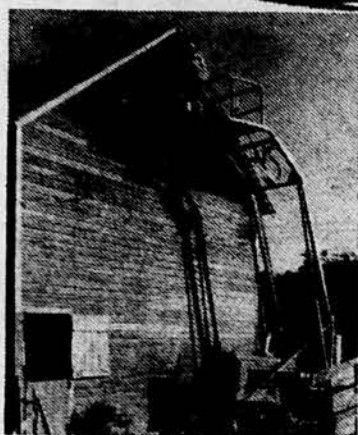
get an all 'round
year 'round

AMERICAN MODEL 30

4-way



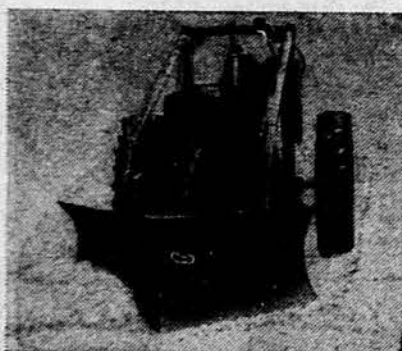
4-Way easily moves an 8'x12'
2 sow brooder house.



Over 30 feet up! Paint barns,
repair roofs, pick fruit, or trim
trees.



Sweep and stack or load loose
or baled hay with the 4-Way's
12' hay rake.



Why be snowed in this winter?
It's easy to keep your road
open with this rugged V-plow
attachment.

FARM
EQUIPMENT
DIVISION

AMERICAN ROAD EQUIPMENT CO.

4302 No. 28 St. • Omaha, Nebraska

No more back
breaking chores—or
money tied-up in idle
equipment. This handy, rug-
ged, hydraulic helper will give
you year 'round use in a thou-
sand different ways.

- LOADS
- STACKS
- LIFTS
- PUSHES

The American 4-WAY, the
NEW industrial approach to
modern farming is a time-sav-
ing tractor attachment for do-
ing those heavy, heart strain-
ing chores.

The basic unit is easily
mounted (there's only 6
bolts). It lifts 3,000 LBS.—up
to 27 FEET. With all its use-
ful attachments — it COSTS
LESS than many specialized
pieces of equipment that stand
idle 50 weeks a year.

Just take a few minutes —
and think of the many ways
you will use the 4-WAY on
your farm—then get complete
specifications—prices—and il-
lustrated folder. See your 4-
Way dealer or write to—

Thoughts TO LIVE BY

Simple Wisdom

THE BIBLE is like a magic mine in which everyone can find something of value. Philosophers can uncover profound doctrines like that of the logos or predestination. The new birth temporarily baffled a teacher the first time he heard about it. On the other hand, children can find simple, dramatic, concrete things that are easily understandable. Someone wisely said it wasn't what he couldn't understand in the Bible that troubled him. It was what he could understand, but didn't do anything about.

Look at one of those simple pas-
sages as it appears in the Revised
Standard Version:

*Four things on earth are small,
but they are exceedingly wise:
the ants are a people not strong,
yet they provide their food in the
summer;
the badgers are a people not mighty,
yet they make their homes in the
rocks;
the locusts have no king;
yet all of them march in rank;
the lizard you can take in your
hands,
yet it is in kings' palaces.*

The ants are provident. They work and save all summer so they can eat and live all winter. Frugality is a virtue that has lost face in a nation that tries to spend its way on borrowed money into prosperity. Frugality seems foolish to prodigal people who waste their substance living riotously and then depend upon the savings of fellow citizens for their support. But the story isn't ended yet. The laws of nature have not been rescinded, and the wisdom of the ant is still worth emulating. In the day of adversity, it is good to have some money in the bank. When opposition arises, it is good to have friends who will hold up your arms. And on the day of judgment, it is good to have some treasure laid up where moth and rust do not corrupt and where thieves cannot break in and steal. In nearly every wastrel's life, there is a time when he looks enviously upon the wisdom of the provident ant.

The rock badgers or conies may be like the ground squirrels or chipmunks found so profusely in the

Colorado mountains. In the open they would be easy prey for carnivorous birds and animals. They are meek little animals unable to defend themselves. But these wise little badgers live among the rocks where they are safe. It will be a great day for the human race when it learns security can be found somewhere other than in arms. We could use a little of the badger's wisdom.

The locusts voluntarily co-operate without being driven. They don't need a dictator to co-ordinate their efforts or to spur them to maximum efficiency. We pay generously in taxes for past and potential wars but we give little to establish peace. In times of national crisis we co-operate to make marked scientific progress and to break production records. But in times of peace, we let selfish motives replace our patriotic loyalty. We are tempted to live on our neighbors instead of with and for them. Loving God might be palatable to more men if they didn't need to love their neighbors too. But we can't get along alone. We need each other. Look again at the wisdom of the locust.

Finally, the lizard or spider, so small a man can hold one in his hand, has a wisdom of his own. We could compliment him on his taste—the king's palace, but that is to miss the point. His wisdom is manifested in his persistence. Small and destructible as he is, he penetrates even the palaces of kings where there are many servants who try to keep him out. No housekeeper is so neat but what she sometimes finds a cobweb. Spiders and lizards are persistent creatures. Kill one today and another one appears tomorrow. Were they not so persistent, they would certainly be relegated to inferior places. Persistence brought Zane Grey to literary success, and the nuclear scientists to atomic fission. Chances are, it has helped get you where you are and it will be needed to get you where you want to go.

Altho they are small, these four creatures are very wise. One observer found something worth recording as he observed their habits and customs. You and I may find something of value even in such humble creatures. —Larry Schwartz

THANKSGIVING DAY AT GRANDPA'S!

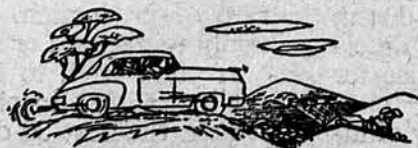
Many children know the fun and joy that can come when Mom and Dad come up with the statement, "Thanksgiving Day at Grandpa's."

Lydia Maria Child set that childish exuberance to verse in her immortal poem, "Thanksgiving Day." The best-known of all Thanksgiving poems, it has 6 verses. It tells of the sleigh ride to the grandparent's farm, and impatience of the family to get there. Here is the famous first stanza.

*"Over the river and through the wood,
To grandfather's house we go;
The horse knows the way
To carry the sleigh
Through the white and drifted snow."*

The last 4 lines are unforgettable, too:

*"Now grandmother's cap I spy!
Hurrah for the fun!
Is the pudding done?
Hurrah for the pumpkin pie!"*





The striking Bel Air 2-Door Sedan. With 3 great new series, Chevrolet offers the widest choice of models in its field.

How Chevrolet makes gas go farther on paved streets or country roads . . .

Whether you're driving in town or country, in heavy traffic or on the open road, you'll benefit from the greatly increased gasoline mileage delivered by the new Chevrolet.

That's because this great car brings you record-breaking gas mileage for the driving you do on the trips *you* take . . . the kind of everyday economy that adds up to a sizeable savings in a mighty short time!

What's behind this amazing economy? Advanced Chevrolet valve-in-head engine design teamed with new higher compression. In simple terms, both the 115-h.p. "Blue-Flame" engine in Powerglide* models and the 108-h.p. "Thrift-King" engine in gear-shift models squeeze more power out of every drop of fuel. Gas economy is greatly increased, while acceleration and hill-climbing ability are greater than ever before!

The moment your toe touches the acceler-

ator, you'll notice Chevrolet's great new performance. And the more you drive, the more apparent it will become—as you call upon the new and safer passing ability, as you conquer a steep grade almost before you realize it's there, as you effortlessly reel off the miles on the open highway. And as you drive on, you begin to notice how far you've gone on surprisingly little gas. You know, even before you check the mileage, that this new Chevrolet will go a lot, lot farther between gas stops!

But that's only part of the story. For the new Chevrolet not only brings you greater gasoline economy, but greater all-round economy as well!

Traditionally low Chevrolet upkeep is now even lower. Greater ruggedness and durability have been built into the beautiful, roomy Body by Fisher. Engines, too, have

extra strength at vital points for longer life. And, of course, you continue to save with such Chevrolet features as bonded brake linings, which give up to twice the wear of the more commonly used riveted type.

The beauty of Chevrolet's economy is this: It stems from the same sound engineering that brings you such wonderful conveniences as Powerglide and Power Steering.* The same high quality materials and precision manufacture that make Chevrolet the finest car in its field on *every* count. Why not stop in at your Chevrolet dealer's and find out about all the fine-car features you'll enjoy while you save with Chevrolet—the *lowest priced line in the low-price field*. . . . Chevrolet Division of General Motors, Detroit 2, Mich.

*Optional at extra cost. Combination of Powerglide automatic transmission and 115-h.p. "Blue-Flame" engine available on "Two-Ten" and Bel Air models only. Power Steering available on all models.

MORE PEOPLE BUY CHEVROLETS THAN ANY OTHER CARS



**DEALERS!
FARMERS!**

SELL
FERTILENE'S 32%
LIQUID
NITROGEN
with
SORBAPHYLL*

**YOU Can MAKE MONEY
by becoming
a Fertile Dealer!**

This most modern of accepted fertilizing methods is easy to sell because it is something growers **NEED** and **WANT**! The demand is tremendous! The profits are substantial. Your investment is small! Fertile's 32% Liquid Nitrogen is known and accepted everywhere because it is being used with great success and is giving satisfaction — and because it is backed up with a powerful National Advertising Campaign!

THE MODERN FERTILIZER

Hailed by leading farm journals for its Amazing Results in increasing crop yields, farmers are using Liquid Nitrogen in great quantities... It boosts crop yield by feeding the plants the needed nitrogen. It's easy to handle because an ordinary weed sprayer is used. Similar compounds tested by the Department of Agriculture show increased wheat yields.

Fertile's 32% Liquid Nitrogen contains magnesium, calcium and sulphur, plus trace elements of Boron, Cobalt, Manganese, Zinc, Copper and Iron.

SOME TESTIMONIALS FROM SATISFIED USERS

"... I got fast top growth even though it was a poor year for a test." Lester Elliott, Cage, Okla.
"... On winter wheat I find it (Fertile) does all required of it." Harold Effie, Walnut, Neb.
"... the best stand we ever had." W. B. Johnson, Alys, Okla.
"... The grain came up better and I also got more bushels per acre of wheat where I used it (Fertile)." A. J. Spoelender, Waverly, Ill.
"My Arthur at Cary, Ohio has used it (Fertile) with amazing results." S. C. Smith, Ada, Ohio.
"The oats plot that was treated with Liquid Fertilizer proved very satisfactory... grew much faster, again as tall as the other oats... also larger kernels and better quality... better yields." Oscar Steinhilber, Morgan, Mich.



Special
Price
In Tank
Cans

ATTENTION GROWERS! See your local dealer about Fertile and what it can do for your crops. If no dealer in your locality, write us.

**MAKE
MONEY**

EASY TO SELL
LARGE PROFITS
SMALL INVESTMENT
BIG RE-ORDERS

**Only FERTILENE'S
Liquid Fertilizers Offers
These Exclusive Features:**

1. "SORBAPHYLL" is an amazing new discovery that increases the absorption of foliage feeding. It speeds the penetration of leaf surface by reducing surface tension, resulting in more uniform covering of the leaf and guarantees that every drop is effectively utilized.
2. FERTILENE IS FILTERED—a pure, clear liquid, easy to spray. No clogging of the spraying apparatus.
3. NEW TYPE DRUMS with linings chemically treated by an exclusive process to prevent corroding and rusting out—the Fertile drums are kept crystal clear at all times... the eye-catching, sales-appealing, 3-color design.

**THIS COUPON WILL BRING YOU MONEY-
MAKING INFORMATION! USE IT N-O-W!**

Can you sell to farmers? Do you want to increase your income? Can you make a very small investment? Are you a responsible person or an established company ready and willing to get behind a fast-selling necessity for every farm? If so, you can obtain a valuable franchise for Fertile's 32% LIQUID NITROGEN! For full information send the coupon NOW!

MAIL THIS COUPON TODAY!

FERTILENE CORP. OF AMERICA
WORTHINGTON, OHIO

KF1

Gentlemen:
Yes, I'm interested in making money as a Fertile dealer. Rush complete information.

Name _____
Address _____
City _____
State _____

Kansas Exhibitors Did Good Job Winning Top American Royal Spots

A KANSAS EXHIBITOR, Claussen Angus Ranch, Russell, had grand champion lot of Angus feeder cattle at the American Royal, in Kansas City. At the sale, following the show, the Claussen entry sold for \$30 a hundred-weight.

In other sales at the American Royal the reserve champion fat lamb, a Southdown shown by Edwin Miller, Snyder, Okla., brought \$5.05 a pound to top the grand champion entry. A Hereford steer, shown by James Caudle, Big Spring, Tex., and judged grand champion of both 4-H and open classes, brought \$6.03 a pound on the block. In the hog division a Berkshire shown by Monroe Kottwitz, Kingfisher, Okla., and judged grand champion of junior and open classes, brought \$2.33 a pound. The grand champion load of fat cattle, Herefords, shown by Karl and Jack Hoffman, Ida Grove, Ia., sold for \$47 a hundredweight.

Considering the small number of Kansans entered in the American Royal, those from the Sunflower state did right well. Here are some of the championships won:

Beef Cattle

Shorthorns: Champion and reserve champion steers, Kansas State College, Manhattan.

Polled Herefords: Reserve champion steer, Leon D. Riffel, Enterprise; champion bull, Alf Battle Mixer, John M. Lewis & Sons, Larned; reserve champion female, Alf Lady Return 106, John M. Lewis & Sons; 6 best head Polled Herefords, John M. Lewis & Sons.

Aberdeen-Angus: Champion steer, Kansas State College, Manhattan;

senior champion female, Blackcap Beale 178th of SAF, Simon Angus Farm, Madison; reserve senior and reserve grand champion bull, Everbest Prince 92nd of SAF, Simon Angus Farm.

Champion load of feeder cattle, Claussen Angus Ranch, Russell.

Reserve grand champion steer, junior division, FFA Fat Cattle, Elaine Olson, Council Grove.

Champion 4-H Club Angus steer, Elaine Olson, Council Grove.

Reserve champion 4-H Club steer, Elaine Olson.

Swine—Barrows

Durocs: Champion barrow, Kansas State College; champion pen of barrows, Kansas State College.

Poland China: Champion barrow, Kansas State College; champion pen of barrows, Kansas State College.

Spotted Poland China: Champion barrow, Kansas State College; champion pen of barrows, Kansas State College.

Grand Champion pen of barrows, all breeds, Kansas State College on pen of lightweight Polands.

Swine—Breeding Stock

Duroc: Champion boar, Boyd Woodford, Silver Lake.

Poland China: Champion sow, E. F. Henderson, Kansas City, Kan.

Sheep

Dorsets: Champion ram, Leonard Stewart, Grenola.

Rambouillets: Champion ram, Kansas State College; champion ewe, Kansas State College.

Reserve champion 4-H club fat lamb, T. D. Fanning, Ottawa.

THE FIRST THANKSGIVING

The first big Thanksgiving Day dinner in the U. S. was the meal spread on long tables outdoors for the Indians, and given by early-day colonists. The friendliness of that first Thanksgiving still prevails.

The first real Thanksgiving observance was back in the time of Plutarch, when the act of setting aside a special period for "giving thanks" was honored. Then, the observance comes on down thru the ages to the time when some Church of England men, the Popham colonists, landed on the coast of Maine on August 19, 1607. Their leader offered a general thanksgiving to God for their safe arrival. This is the first reference to "Thanksgiving" on U. S. territory.



Five Items Need Attention Now In Your Garden and Orchard

By WILLIAM G. AMSTEIN, Kansas State College

THERE ARE several fall home fruit and vegetable garden jobs that need attention before winter. Items to be considered now are (1) protecting fruit trees from rodent injury (mice and rabbits), (2) plowing the 1934 garden site, (3) inventorying orchard replacement needs, (4) obtaining mulch materials for protecting the strawberry bed, and (5) harvesting any late-maturing vegetable crops.

Often our valuable young fruit trees are lost or injured by mice or rabbits in fall or early winter. Clearing away trash and leaves from the trunk of the trees for a distance of 2 feet is of first importance. Too often mice injury occurs before we are aware of it. As a result, the trees are badly injured if not lost. Mice damage may occur around the trunk of the tree, either below or above the ground line. The roots may be injured, also. In the case of young apple trees, a permanent wire guard is the best answer against rab-

bits. Sisalkraft paper, such as is used in temporary silos and in many other ways, is practical as a tree wrap. News paper mats are also often available and useful. For the first few winters other young fruit trees, such as peach, pear, plum and cherry, may be subject to rabbit injury. A good cleanup around the trunk of the tree is one of the first and best things to do. Protecting the trunk of the tree with a repellent type paint is another practice that is often followed to prevent rabbit damage.

At the time you are clearing around the trees to help prevent mice and rabbit injury, it is a good idea to take notice of any dead or severely injured trees that may need replacing. While leaves are still on the tree, it is much easier to determine by both foliage color and bark appearance the trees that are in good condition. It is surprising how too often this attention, if neglected until spring, is too late. That

(Continued on Page 13)



*This year
Farmers planted
over 240,000
more bushels of
Pioneer than last
year. Join the big
swing
to*

PIONEER
HYBRIDS

SEE YOUR
PIONEER SALESMAN

ext May when you realize a tree is net
afing out, it may be too late or, if not
o late, a desirable replacement may
ot be available in the correct variety,
ze or type of root stock. The planting
ed not be made until spring but in-
entory needs should be determined
his fall or winter.

For many years I have thought fall
eparation of the garden site paid big
vidends. It pays if for no other rea-
on than to allow early spring plant-
g. However, I think other advantages
so are obtained. Previous to plowing
nder the garden remains, it may be
ecessary to remove and destroy any
eased foliage and plants. While mois-
ure supply has been limited, it is no
gn conditions will not improve be-
ore spring. A coating of manure also
ill help if it can be applied and then
lowed under.

Strawberry stands this fall may vary
rom very poor to fair. It is no time to
eglect planning to apply a winter
ulch. Put it on as soon as weather
onditions require, certainly by early
ecember. Too many gardeners do not
realize the heavy losses that result
rom failure to mulch or mulch in time.
he early blooms are the ones most
ommonly injured by early winter
reezes. In addition to crop losses,
lant losses are greater where the
ulch is not applied or is not put on
n time. Straw, leaves and sawdust are
ome of the materials most useful as a
ulch.

Late season harvest of root crops
ay still be needed. Some of these
rops have not been very productive
his year. However, any production
will come in handy.

MARKETING VIEWPOINT

By LEONARD W. SCHRUBEN

*I have some atlas sorgo that is nearly
ipe and will make good yield of seed,
ut need it for silo if seed isn't worth
ough to pay to thresh. Could you give
ne an estimate of price of good test
nd clean seed next spring?—R. K.*

This is in reply to your inquiry as to
he prospective price of seed atlas sorgo.
Present indications are there will be
ufficient seed for use next spring. The
usual premiums will probably prevail
rather than especially favorable prices
or seed sorgo.

It would appear that grain sorghum
rices will likely advance from 30 to 50
ents per hundred by the end of Janu-
ry and, of course, good grain seed
ould be expected to advance some-
what more than this.

I am sure you realize price forecast-
ng has its limitations and no one can
e absolutely certain as to the direc-
ion prices will take.

*Each year I must buy several hun-
red bushels of corn which is fed to
ogs. Often I buy a large part of this
t picking time when the price is usu-
lly lowest. I wonder if it would be wise
o purchase a large part of my yearly
equirements at this time or do you
hink the price of corn will stay near its
resent level in the coming year? Corn
n this locality is selling for about \$1
er bushel just now.—C. W.*

It is my opinion corn prices will ad-
vance 25 to 30 cents between now and
ate spring. I seriously doubt whether
corn will be priced much lower than
resent levels this fall. Most of it will
e dry and of good keeping quality,
even in the northern part of the Corn
Belt. This means farmers who produce
corn can take advantage of the loan
program and not be forced to accept a
price lower than the loan rate. It is my
understanding the 1953 loan rate will
be the same as it was last year.

In laying in supplies for such a long
period in advance, one must always
consider the storage facilities avail-
able. Do you have a suitable crib or
bin? If so, I should think the chance
would be about 8 out of 10 in favor of
buying your yearly supply within the
next 3 or 4 weeks.

The BIG Difference
in
Plug Performance!

PATENTED
CORALOX
INSULATOR

The longer you use AC Spark Plugs in car, truck or tractor service, the more you will appreciate that AC patented CORALOX Insulator makes the big difference in plug performance.

CORALOX resists, to a greater degree than any previous type insulator, the formation of oxide and carbon deposits, which are major

causes of plug shorting, misfiring and loss of engine power.

Consequently, a new set of AC Spark Plugs gives you greater gas economy, increased power, improved acceleration and more reliable performance under all operating conditions. Use them in all of your farm engines and discover the difference they make.



Factory Equipment
on Nearly as many
New Cars and Trucks
as All Other
Makes Combined



AC SPARK PLUG DIVISION
GENERAL MOTORS CORPORATION

New **FIELD SPEEDS**
for **FARMALLS**

M & W 9-Speed Transmission
Cuts Field Work Time...Saves Gas

M & W 9-Speed Transmission gives your Farmall 4 more intermediate field speeds (6, 7½, 9 and 11 mph) ... a complete range of "job-suited" speeds. Fits Farmall M, H, MD, W-4, W-6, Super H and Super M. For complete information see your tractor dealer today or write Dept. G22.

M & W **M & W GEAR CO.**
ANCHOR, ILLINOIS

UNIVERSAL TRACTOR AXLE

VERY SHORT TURNING
CONVERTS ROW CROP TO WIDE FRONT
FAST!

- Quick, easy to install.
- 30 day free trial
- Fits 24 tractor models.
- Thousands now in use.

See your local implement dealer or write to:
C & M, INCORPORATED
Box 1255 Dept. 901 Fargo, N. D.



Dwight Hull SAYS...

Walk-thru Milking Parlor Is Popular

SINCE THE ARTICLE in the *Kansas Farmer* about a year ago on "What Kind of a Milking Parlor Would You Build?" we have had many inquiries on how we liked our milking parlor and what changes we would make. There's always room for improvement.

Our parlor is a walk-thru type with 3 stalls in a row. Cows are elevated to a height of 32 inches, with floor of the working space on same level with floor of the milkroom. Floor of the stalls overhangs the supporting wall about 6 inches, so operator has plenty of foot space without interference. Cows are in a cement-paved holding lot just outside of entrance door. Entrance door is located as near the corner as possible opposite No. 1 stall, and exit door at the other corner opposite No. 3 stall. The entrance door is controlled by the operator by means of a rope. The exit door is left ajar and cows push it on open to get out.

Cows get up to raised portion into stalls by means of steps, in place of a ramp. We are quite sold on this idea, as cows take to the steps very easily and it means their feet are always on the level and do not slip as easily as on an incline. One should be careful to get plenty of width to the steps and not too much depth. Our entrance steps are 18 inches wide and 7 inches deep which we feel is about right. Our exit steps are a little narrower and deeper and we do not feel they are so satisfactory. Most of the time cows will walk into an empty stall as soon as the entrance door is opened.

Use a Pipe Line

Milk is milked into weigh jars; as soon as a cow is milked, weight of milk is recorded. A valve then is opened that lets milk into pipe line. Milk flows directly into the cooler, where cans are filled automatically. This arrangement makes it almost unnecessary for the operator ever to leave his working space. Each stall is an independent unit so a cow may go into or out of any stall without interfering with cows in the other stalls.

We especially like this arrangement as cows do not milk out in the same length of time and it gives us an opportunity to start training heifers that are going to freshen by bringing them into a stall during the milking process. So by the time a heifer freshens she is familiar with the stalls, noise of milking machine; in fact she is accustomed

to her entire surrounding and therefore makes very little if any fuss when milkers are attached.

Before we built the parlor we were inclined to feel a cow would not have sufficient time to eat grain in a 3-stall system. But we have had no difficulty here, as cows seem to have plenty of time to eat.

Our biggest mistake was in cutting our stalls down to 8 feet in length as we find some of our larger cows do not have enough room to be comfortable. Stalls should have been 8½ feet in length. Our next biggest mistake was in sloping inside of the cement curb which is along the edge of the raised floor next to the operator. Our reason for doing this was for ease in cleaning but we find a cow needs the room. A cow will not stand on this sloping part but she would place her foot next to a straight side of the curb. This slope again crowds bigger cows for width of stall and decreases comfort of the cow.

Here Are Advantages

There are many advantages for this type of a milking parlor, biggest advantage being ease of milking. Labor involved in actual operation of milking is considerably less than where an operator has to stoop and carry as he does in the stanchion-type of barn.

The time it takes to milk 20 or more cows with this type of setup can be reduced considerably over the older type. However, the time element is sometimes overemphasized according to our way of thinking. After all, cows must be treated as individuals having their own individuality that should be catered to if one is to get the best production. If one tries to milk a certain number of cows in an hour consistently he will find perhaps that by rushing too much he is missing some of the things he should be doing to make the cow more at ease and relaxed; a requirement that is essential for best production. It might be such little things as shutting the stall door on her before she is settled or being too rough in washing the udder, or something as apparently insignificant, that is causing a cow's uneasiness.

The walk-thru type of milking parlor is becoming increasingly popular. We would suggest to anyone who may be considering building one that it would be worth their while to visit dairymen who are using this type of milking parlor.

KANSAS WAS WELL REPRESENTED



KANSAS COUNTY agricultural agents are shown, with symbolic Sunflower emblems, as they arrived in Philadelphia to attend 38th annual convention of the National County Agricultural Agents Association. Front row, left to right: Clarence Hollingsworth, Eureka; Brace Rowley, Salina, vice-president; Harvey Goertz, president, Kansas County Agents Association; H. W. Westmeyer, Dodge City, secretary-treasurer. Middle row: Bruce McLaury, Paola; Jim Sturdevant, Girard; Don Brown, Ottawa; Joe Divine, Iola; C. T. Hall, Olathe. Back row: John Maxwell, Howard; V. S. Crippen, Liberal; Wilbur White, Elkhart and Hobart Frederick, Hutchinson.

Who Are Your Customers?



"Seeking to be chosen"

America has a wonderful tradition of freedom... freedom of speech and freedom of religion. It also includes freedom of choice... freedom to grow the kinds of crops and livestock you want to, and freedom to choose how you will market them.

In our free choice system, competition means "seeking to be chosen." Swift & Company competes to purchase your livestock and dairy and poultry products by trying to give you the best price, the best service, and the best treatment you can get anywhere.

We do this because there are 18,000 others who buy and dress farm animals, and who also have to be on their toes trying to buy livestock, too.

"Seeking to be chosen" doesn't end with the buying of live animals. Competition extends on through to the sale of meats and poultry products. Retailers have a wide choice between different suppliers. As the picture-story on this page shows, Chicago retailers can choose between 165 different wholesale sellers of meat. In New York, retailers have their choice of 617 different suppliers of meat and 52 different suppliers of poultry from whom they buy most of their products.

Consumers have thousands of choices. They can choose between several stores, of course, but inside the stores thousands of different products and different brands are lined up—because the suppliers are "seeking to be chosen" by the ultimate customers, the consumer.

Little wonder that progress and improvements are continuous; that prices are kept attractive; that margins are narrow. That is because we have free choice throughout our business system among the many people who are "seeking to be chosen." And the one-word name for that is "competition."

Tom Glaze

Agricultural Research Department

Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS
Nutrition is our business—and yours

Competition in buying of livestock

18,000
meat packers
and other
commercial
slaughterers
compete with
each other to...



Buy
livestock and
other raw
materials
from farmers
and ranchers

One of these 18,000 is Swift & Company

For example, in Iowa, farmers sell livestock...

- 1 At 202 livestock auction markets.
- 2 At Sioux City Central Market where 8 large meat plants operate—plus many order buyers who ship elsewhere.
- 3 At central markets in 13 other cities, including Chicago.



- 4 To additional buyers such as: 890 locker plants—many large meat plants and buying stations all over Iowa—100 slaughtering retailers—order buyers buying for many packers from coast to coast—hundreds of local independent buyers and traders.

Competition in selling of meats, dairy products, and other products meat packers handle

For example:
In Chicago
retailers can
buy from
165 different
sources



28
Slaughterers
46
Processors
72
Wholesalers
19
Packer Wholesale Houses

With all the competition for the purchase of meat animals, poultry and dairy products shown above, you have a wide and free choice of where to sell your product to your own best advantage

You can sell anywhere.. any way you prefer

IT TOOK ALL 3:

GOOD PULLETS!

Good Management:

GOOCH'S BEST Feeds



Mr. Paul J. Schrag, Moundridge, Kansas, whose flock gave him 70% to 75% production last fall, says: "I manage my flock to get all the eggs they're bred to lay. And, my first rule of management is: 'Buy chicks that are bred to lay heavily the year around!'"



"Planning is 80% of good management," says Mr. Schrag. "My plan gets me more results for my time, my work, and the money I pay for chicks and feed". A corner in his sanitary, well-designed laying house is shown above.



Mr. Schrag says: "To repeat, I care for and feed my hens to get all the eggs they're bred to lay. I kept records last year and, feeding GOOCH'S BEST All-Mash Egg Pellets, got 70% to 75% production throughout the test".

75% Egg Production Record

"Is your 'plan for more egg profits' working as well as Mr. Schrag's, or the other folks mentioned below?"

If it isn't, maybe GOOCH'S BEST can help you! Even if your feeding plan is different, there is a GOOCH'S BEST Feed that will fit—and will give you the same feed advantage these other poultry raisers have. Whether you have lots of grain—or want a complete all-in-one feed, there is a GOOCH'S BEST Feed especially designed to help every hen lay all the eggs she is bred to lay. Further, every GOOCH'S BEST Feed is so thor-

oughly blended you can be sure your hens will receive a balance of needed egg-making nutrients every day.

And now we can help you in another way! Since few flock owners have time to work out all the labor-saving, management devices that get those last extra-profit eggs, GOOCH has prepared a useful new booklet, "Managing Your Hens for Extra Eggs".

It's full of practical ideas that others have already proved profitable! Get this free booklet today!

All over the Midwest GOOCH'S BEST Feeders USE THESE METHODS, GET TOP RESULTS

Mrs. Paul Enns, LaJunta, Colo., says:

"I put 199 White Leghorns in the laying house...feeding them GOOCH'S BEST. I kept culling the flock down till it was under 160 birds and in the last month, they laid at the rate of 62%."



Joe Berning, Jr., Sibley, Iowa, says:

"I kept records for 3 months last year while feeding GOOCH'S BEST 26% Laying Supple-

ment, and got 66.7% production in November, 77% in December, 73% in January, and a 90-day average over 72%."

Mrs. Earl H. Mathews

Wymore, Nebr., started 350 pullets on GOOCH'S BEST 26% Laying Supplement. She says: "I culled out non-layers...and when I added up the daily December records I found that I had gathered 6,402 eggs for about a 70% production record".



GOOCH'S BEST

GOOD MANAGEMENT



GOOCH FEED MILL CO.
Lincoln, Nebr., Council Bluffs, Ia., Salina, Kan., Dalhart, Texas

Please send me FREE booklet, "Managing Your Hens for Extra Eggs".

NAME _____

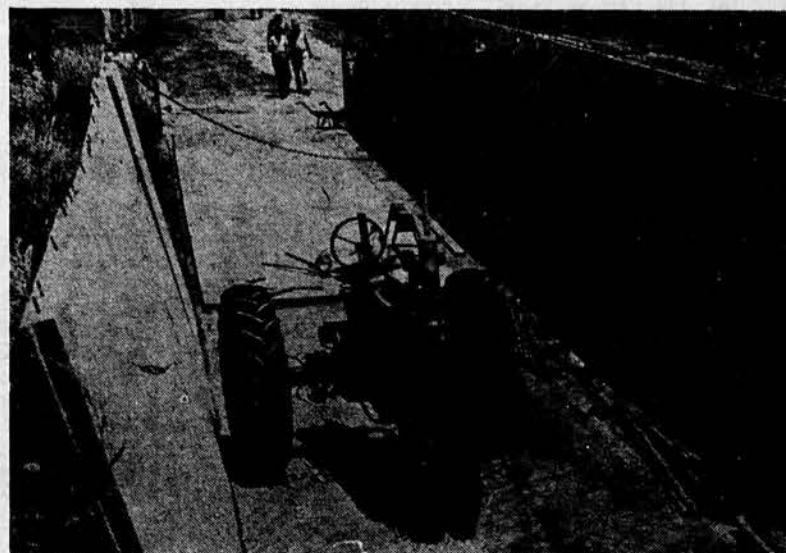
R.F.D. _____

TOWN _____

STATE _____

How to Use Tilt-up Construction For Trench Silo Linings

By KELLER CORDON



HERE IS A PARTLY completed tilt-up silo built during one of several demonstrations last summer. Side panels are cast on floor of trench, then tilted into position and sealed together with concrete mix. This type construction is cheaper than casting side panels in place.

PRINCIPLES of tilt-up construction have been known to engineers and builders for years, but only recently has this type construction become popular for lining trench silos with concrete.

Main advantages to tilt-up construction are: Substantial savings on forms and on labor costs. This is accomplished by casting wall sections in the horizontal position, and by using available farm power to erect the wall sections into position.

It is essential to have a thorough understanding of the following, if satisfactory construction is to be obtained:

A. Quality concrete:

(1) Design of mix—Concrete used should be made from sound, clean, well-graded aggregates, Type 1 or Type 1-A Portland cement, and not more than 6 gallons of clean water per sack of cement. (A suggested trial mix is 1:4½ with 5 gallons of water, when average, damp sand-gravel is used for aggregate). Concrete should be of mushy consistency, not watery or dry.

(2) Placing—Fresh concrete should be consolidated by hand or power methods to assure complete filling of forms,

and contact with all the reinforcement.

(3) Finishing—Concrete should be leveled with a straightedge, and given a steel-troweled finish after the water sheen has disappeared.

(4) Curing—After surface of concrete has hardened sufficiently to resist marring, concrete should be kept constantly moist for 7 days.

B. Construction details:

(1) Forms—Forms should be constructed from 2-inch lumber free of knots. Forms must be rigidly braced to prevent displacement when fresh concrete is placed.

(2) Reinforcement—Six by 6-6/8 wire reinforcing mesh is recommended for reinforcing wall panels. It gives good distribution of reinforcement, and can be placed with minimum of labor. Mesh should be placed to within one inch of edges of panel, and 2 inches from bottom of a 4-inch thick panel as cast.

(3) Joints—Several methods can be used in joining wall panels after tilting them into position. One of easiest is to cast grooves in edges of each wall panel and fill space between panels with concrete.

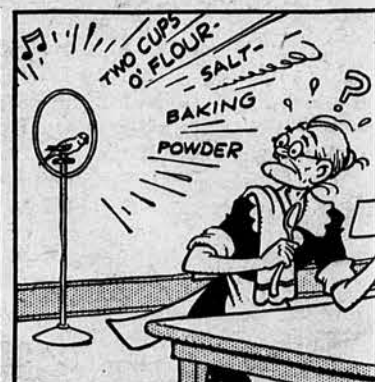
(Continued on Page 17)

GRANDMA

By Charles Kuhn



LET'S SEE, NOW—
TWO CUPS O' FLOUR, SALT, BAKING POWDER AN'



TWO CUPS O' FLOUR—
SALT—
BAKING POWDER



I'LL JUST PUT YOU IN TH' OTHER ROOM TILL I GET MY CAKE BAKED.



WHEN TH' CLUB GIRLS MEET HERE, I DON'T WANT MY SECRET RECIPE REPEATED OVER AN' OVER FOR THEIR BENEFIT!!

6-23
CHAS. KUHN

stiff concrete after panels are tilted into position, producing a keyed joint. Another is to let reinforcing mesh extend thru each panel as cast, then tie overlapping mesh after panels are tilted into position and cast the joint as outlined above.

(4) Pickup points—Use 2 pickup points at or near top of wall section when width of panel does not exceed height. Pickup points are constructed by casting eye bolts or hooks into outer edges of panel when fresh concrete is placed. Bending stresses in panel can be reduced materially by placing pickup points one fourth the distance from top edge in the panel.

(5) Bond breakers—It is important to use some material to prevent bond between wall panels and concrete floor on which panels are cast. Building paper and felt will effectively prevent bond. Care should be taken to avoid wrinkling. Other materials often used as bond breakers are curing compounds, spirit wax, liquid soap and paraffin dissolved in kerosene or light oil.

The Tilting Operation

C. Tilting operation:

(1) Equipment—Should have enough power to lift the complete slab. This will be helpful in making lateral as well as vertical adjustment in positioning the panel.

(2) Tilting—Operation should be done with least possible shock to panel.

(3) Bracing—Rigid braces should be placed on each wall panel (at least 2 per panel), and left in position until backfilling has been completed. Bracing is normally fastened at top of wall panels after positioning.

(4) Joining wall panels—A stiff concrete mixture is placed between wall panels after they are in their final position, to key them together to form a rigid structure.

(5) Backfilling—Clay or loam soils make a satisfactory backfill material. Soil should be backfilled in layers from one to 2 feet in thickness and thoroughly compacted before next layer of soil is placed. Wall panels should be anchored securely to resist lateral pressures developed during backfilling with dry soil.

Protect Your Silage With Air Control

Occasional ill effects on some animals caused by heating or molded silage calls for caution in their use. Some of the most complete and practical silage experiments in the country are conducted at the Ohio Agricultural Experiment Station. Charles F. Rogers there has written on "Air and the Heating of Silage."

He says keeping air out is essential for good silage formation and necessary for elimination of spoilage. Right fermentations go on in the absence of air. Also, when air and moist forages come together in a pile they heat. The more air that gets into the pile, the more it heats, and the deeper the spoilage goes. The Goodyear Tire and Rubber Co., Akron, O., has developed a special covering for silage.

Choose a Kansan

A Kansas State College man has been chosen by USDA to write the annual report for the U. S. Agricultural Extension service. Harold Shankland, associate Extension editor, will spend a month in Washington. Each year a member of a state Extension editorial staff is chosen.

How to Use Fertilizer

Thurston Chemical Company has a smart new booklet on fertilizers that will answer your questions on values of using fertilizer on crops. For your free copy of "Fertilizer Guide," write Farm Service Editor, Kansas Farmer, Topeka, Kan. This is an especially well-prepared booklet.

class for class you get **MORE POWER** with **ECONOMY** in Massey-Harris Tractors

3 FLOW 33 — 201 cu. in. engine, 5-forward speeds, 2-way Depth-o-matic Hydraulic System, Live P.T.O.

3-4 FLOW 44 — 260 cu. in. engine (gasoline, diesel, distillate, L.P.), 5-forward speeds, 2-way Depth-o-matic Hydraulic System, Live P.T.O.

4-5 FLOW 55 — 382 cu. in. engine (gasoline, diesel, distillate, L.P.), 4-forward speeds, Special Depth-o-matic Hydraulic System.

1-FLOW PONY — 62 cu. in. engine, 3 forward speeds, 2-way Depth-o-matic Hydraulic System.

2-FLOW COLT — 124 cu. in. engine, 4-forward speeds, 2-way follow-up Depth-o-matic Hydraulic System, 3-point hitch.

2-FLOW MUSTANG — 140 cu. in. engine (gasoline or distillate) 4-forward speeds, 2-way follow-up Depth-o-matic Hydraulic System, 3-point hitch.

HERE's power that makes every row or furrow seem shorter . . . that lets you run in a gear higher on jobs where other tractors have to dig in.

Try it yourself. Take a Massey-Harris through the tough ground. Give it the jobs that make your present tractor bear down and lug — and feel the Massey-Harris pull away with them.

Then compare the Massey-Harris to other tractors you've driven. Compare it for quick-responding power . . . for adaptable speeds, traction and hydraulic control — for all of the features you want in a tractor.

You'll find Massey-Harris gives you the reserve power, the low-cost operation, the control, and adaptability you need to cut production and labor costs.

And you'll find Massey-Harris tractors mount big capacity tools that help you cover more acres on less fuel, in less time . . . that handle more jobs around your place with cost-reducing power.

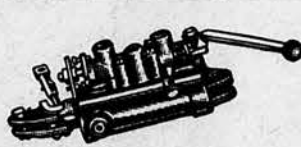
See your Massey-Harris dealer for complete details. Ask for a demonstration. For free catalog write The Massey-Harris Company, Dept. L-95, Racine, Wis.

Make it a Massey-Harris

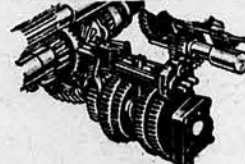
Parts and Service through more than 2500 Authorized Dealers



Massey-Harris 4-cylinder engines are high torque, low friction design . . . lug better in the tough spots, recover quickly . . . cost less to run and maintain.



Depth-o-matic Hydraulic System gives smooth 2-way control of both mounted and pull-behind tools. Holds constant depth. Selective control and delayed action.



Power saving transmission design means more pulling power at the drawbar on less fuel. Precision cut gears, oil-bath lubrication, low maintenance.

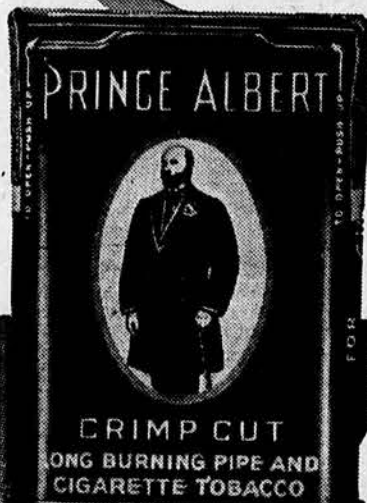


Full-width, operator's platform, easy-to-reach controls, and Velvet Ride Seat help you finish the day fresher. Balanced hood design gives equal vision to both sides.

See these outstanding Massey-Harris Tractors at your nearby Massey-Harris Dealer

KANSAS DEALERS			
ABILENE.....	Abilene Farm Supply	CUNNINGHAM.....	Kincheloe Implement
ALMENA.....	Short Implement Co.	DAMAR.....	Damar Implement Co.
ANTHONY.....	Farm Welding & Machine Co.	DIGHTON.....	Dighton Farm Equip. Co.
ARKANSAS CITY.....	Peters Implement Co.	DODGE CITY.....	Schroeder Implements, Inc.
ASHLAND.....	Smith Implement Co.	EASTON.....	Meinert Hdwe. & Impl. Co.
ATCHISON.....	Osborn Implement Co.	ELKHART.....	Western Implement Co.
ATWOOD.....	Worthy Implement Co.	ELLIS.....	Farm Implement Co.
AUGUSTA.....	Mickle's Service	ELLSWORTH.....	Ellsworth Farm Equip. Co.
BELLE PLAINE.....	Moffitt & Harding	EMPORIA.....	Farmers Supply Co.
BELLEVILLE.....	Swiercinsky Brothers	EUDORA.....	Rothberger Motor Co.
BELOIT.....	R. P. Fuller & Son	EUREKA.....	Brenton Auto Service
BIRD CITY.....	Bressler Impl. & Service	FT. SCOTT.....	Hammons Implement Co.
BONNER SPRINGS.....	Frazier-Pruitt Implement Co.	FRANKFORT.....	Kuckelman Motor & Implement Co.
BUCKLIN.....	Schellhomer Tractor Service	FREDONIA.....	Homer Neill, 432 N. 5th
BUHLER.....	E. J. Super Service	GARDEN CITY.....	Kerr Implement Co.
BURDETT.....	Lester Bauer Implement Co.	GARDNER.....	Gardner Tractor Co., Inc.
CALDWELL.....	Walt-Norton Chevrolet, Inc.	GARNETT.....	Craig Sales & Service
CAWKER CITY.....	E. C. Riley	GOODLAND.....	Davis Implement Co.
CHENEY.....	K. & S. Motor Co.	GRAINFIELD.....	Fritts Implement Co.
CIMARRON.....	Walker Sales Co.	GREAT BEND.....	Walter Sears Store
CLAY CENTER.....	Frick Implement Co.	GREENSBURG.....	Sundgren Implement
COFFEYVILLE.....	Isham Hardware Co.	HAYS.....	Wheeler Implement Co.
COLBY.....	Dougherty Implement Co.	HIAWATHA.....	Heist Implement Co.
COLDWATER.....	B. J. Herd Implement Co.	HIGHLAND.....	McKay Brothers
COLUMBUS.....	Paul Webb Farm Equip.	HILL CITY.....	Steward Implement Co.
CONCORDIA.....	McGinnis Implement Co.	HOLTON.....	Farmers Union Co-op. Bus. Assn.
CONWAY SPRINGS.....	Lynxwiler Chevrolet Co.	HOXIE.....	Schlageck Motor & Equip. Co.
COUNCIL GROVE.....	McClintock Motor Co.	HUGOTON.....	Garmon Implement Co.
		HUTCHINSON.....	Hutchinson Impl. Co.
		INDEPENDENCE.....	Coleman Farm Equipment Co.
		IOLA.....	Bradford Implement Co.
		ISABEL.....	Isabel Co-op Equity Exchange
		JAMESTOWN.....	Pfister Motor Co.
		JETMORE.....	Shiew Motor & Impl. Co.
		KINGMAN.....	Flickner & Kaufman Implement Co.
		KINSLEY.....	Farlow Implement Co.
		KIOWA.....	Kiowa Implement Co.
		KIRWIN.....	Charles McDowell Chev. Co.
		LA CROSSE.....	Weigand Motor & Implement Co.
		LARNED.....	West-Barr, Inc.
		LAWRENCE.....	Lawrence Implement Co.
		LEOTI.....	Lewis Supply Co.
		LIBERAL.....	Tedford Implement Co.
		LINCOLN.....	Chord Motor Co.
		LOUISBURG.....	Hink Garage
		LYONS.....	Trowbridge & Pickering Implement Co.
		MANKATO.....	Taylor Implement Co.
		MARION.....	Marion Motors & Machinery, Inc.
		MARYSVILLE.....	Brauchi Brothers
		MCPHERSON.....	Carlson & Rankin Impl. Co.
		MEADE.....	Meade Implement Co.
		MILBERGER.....	Ed. Rodtke & Son
		MINNEAPOLIS.....	Gilley's Implement
		MORRILL.....	E. W. Willard Garage
		MOUND CITY.....	Carbon Implement Co.
		MOUNT HOPE.....	Howard's
		NATOMA.....	Natoma Implement Co.
		NESS CITY.....	John Hann Implement Co.
		NEWTON.....	Dey Farm Supply, Inc. 128 W. 5th St.
		OAKLEY.....	Park Implement Co.
		OBERLIN.....	Oberlin Motor Co.
		OSBORNE.....	Swank Motor Co.
		OSWEGO.....	Oswego Implement Co., Inc.
		OTTAWA.....	White Implement Co.
		OVERBROOK.....	Ross A. Coffman & Sons
		PAOLA.....	Egley & Williams Implement
		PARSONS.....	Farmers Co-op Assn.
		PHILLIPSBURG.....	Phillipsburg Implement Co., Inc.
		PITTSBURG.....	Z. & S. Implement Co.
		PLAINVILLE.....	Farm Implement & Supply Co.
		ROSSVILLE.....	Rossville Implement Co.
		ST. FRANCIS.....	Daniels & Bressler
		ST. JOHN.....	Stafford County Impl. Co.
		ST. MARYS.....	J. P. Smith, K-F Motors
		SALINA.....	Salina Farm Supply
		SATANTA.....	Satanta Implement Co.
		SCOTT CITY.....	Nickelson-Sawyer Implement Co.
		SCRANTON.....	Scranton Implement Co.
		SEDAN.....	Bain Motor Co.
		SELDEN.....	Anderson Implement Co.
		SENECA.....	Kuckelman Implement Co.
		SMITH CENTER.....	Pounds Motor & Implement Co.
		SYRACUSE.....	Salter Implement Co.
		TOPEKA.....	Topeka Implement Co., Inc. 1808 N. Topeka Ave.
		TRIBUNE.....	Tribune Sales Co.
		TURON.....	Turon Motor & Impl. Co.
		ULYSSES.....	Webber Supply Co.
		WAKEENEY.....	Rupp Implement Co.
		WAMEGO.....	Eddy Implement Co.
		WELLINGTON.....	Etter & Harris Bros. Motor Co.
		WHITE CITY.....	Brown Motor Co.
		WINFIELD.....	Allred Tire & Brake Service

NO OTHER SMOKING TOBACCO HAS PRINCE ALBERT'S *Mellow Taste!*



That's why
P.A.
is on top today!

"I'M ONE OF THOSE
MEN WHO SMOKE A GOOD DEAL
WHILE I WORK...SO I HAVE TO HAVE
A **MILD, MELLOW, AGREEABLE**
PIPE TOBACCO...IT'S PRINCE ALBERT
FOR ME!"

Earl Smith
Cabinet maker

"EARL AND I CERTAINLY
AGREE ON **PRINCE ALBERT**, EXCEPT
I LIKE MINE IN A ROLL-YOUR-OWN.
THE **CRIMP CUT** OF P.A. MAKES
THE DIFFERENCE!"

Floyd Miller
Instructor

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

EASY ON YOUR TONGUE! Prince Albert's choice tobacco is specially treated to insure extra mellowness.

EASY TO DRAW! Crimp cut Prince Albert packs just right in your pipe. Smokes cool, mild, and is long burning...all the way!

EASY ON THE POCKETBOOK! More tobacco now in every pocket tin! More smoking pleasure for your money!

EASY TO ROLL! You can't beat Prince Albert for a "makin's" cigarette! Rolls easy—stays put—doesn't dribble out the ends!

Tune in "Grand Ole Opry", Saturday Nights on NBC

Prince Albert

AMERICA'S LARGEST-SELLING SMOKING TOBACCO!

KILL RATS WITH
warfarin

SEARLE
Farm Duty
LUBRICANTS

JOHN GOES TO VISIT INDIA

Sees a landlord's farm, works wheatland, describes teatime, goes pigeon shooting

Remember, Kansas Farmer promised to bring you letters from 2 of our Kansas 4-H'ers who are spending some time on farms overseas this year. Here is the fourth letter from John Ferrell, of Mt. Hope, in Sedgwick county, who has gone to India. Watch for another letter on November 21.



JOHN FERRELL
Mt. Hope, Sedgwick County

DEAR MR. GILKESON: We have been in the home of Tharkar Singh, which is Kishenkot, Punjab for 10 days. Mr. Singh is a large zimidai (landlord) and owns this complete village. His land (about 600 acres) comprises the entire area farmed by the people who live here. Now the surprising thing is, there are 400 men, women and children who must live and produce their cash crops on this small acreage.

In this backward land there are agricultural methods that surpass anything at home. Two examples are the irrigation systems and practice of cutting fodder every day for cattle. To elaborate, canals and tributaries which bring water down from the Himalayas are centuries old, dug by hand and without use of engineering instruments. These canals were so well constructed that even in the dry season there is a constant flow.

Just Starting in U. S.

The second example of each day cutting green feed, and chopping it so a cow will not waste any, is just coming into use in the dairy districts of U. S., but here they have done it since before time of Christ.

Don Kvasnicka (Minn.) and I have worked 130 acres of wheatland. The method is much like that of Kansas—plow, disk harrow, and level pack. Plowing and disking are done with tractors. Disking is necessary because plows are like field cultivators. Leveling and packing correspond to our springtooth and spike harrow. These 2 operations are done with bullock teams, and to me it was a great experience to work a team of bulls which weighed 1,600 pounds apiece.

Tuesday morning we planted grain and since seeds were too large for Mr. Singh's drill we did it by hand broadcasting. Altho this looks simple it is quite hard to evenly distribute the grains.

At 4 p. m., it's teatime. Everyone takes tea and chats at this hour. Besides tea there is always a sweet or something to munch. Our favorite is a parched maize. One afternoon when we evidenced a pleasure in this treat we were shown how it was made. The kernels in the milk stage are shelled from the cob and placed in hot sand

over an open charcoal flame. When cooked the kernels are sifted from the sand by means of a fine wire screen. Salt and ghee (melted butter) are added to make a delicious morsel.

I think you people at home would be pleased to hear that no matter where we are or what we're doing, all 1 IFYE's here in India take time to observe the Sabbath.

Twice on days of rain when no field work could be done we have gone pigeon shooting. By we, I mean Don, Mr. Singh, 2 or 3 hired men and all the village boys. When Don or I score a hit there are yells of encouragement and glee, but when we miss the faces fall like they had lost a brother. The people here like us, but I believe they think we are crazy because they never have seen an outsider work with their hands. To them it is really an amazing thing when Don or I greet them with sertigall (Punjab word Hi) for we are of the landlord's house and surely haven't the time to speak with such low persons as they.

It would please me if I could tell more about the women here but we seldom see them. Really they are just like the women at home, for when they saw we had no lounging pajamas (P. J.'s are all anyone here wears when they are not in field) they immediately made a set for both Don and me.

Our meals are mostly vegetables; never thought there were so many different types. My mother will be shocked when on my return home I sit cross-legged on the floor and eat only with the fingers of my right hand!

—John Ferrell

Kansas Future Farmers of America Made Good Showing at Kansas City

By CARL EICHE

HIGHLIGHT of the Future Farmers of America national convention in Kansas City was an appearance made by President Dwight D. Eisenhower. His farm policy address topped off a 4-day program that saw 10,000 representatives of the 363,369 FFA members invade Kansas City's municipal auditorium, October 12 thru 15.

Cabinet members Oveta Culp Hobby, Secretary of Health, Education and Welfare; and Ezra Taft Benson, Secretary of Agriculture, also addressed the convention and gave praise to the progressive young people's organization.

President Eisenhower reviewed past accomplishments of his administration in his speech and touched on the farm program that will be developed in view of recent "grass roots" studies. He said, "I think you have as much interest in

the matter as do your parents. I know you have a far greater understanding of the factors at work than did young people during my own youth."

This was the 25th anniversary of the FFA and Assistant Postmaster General Albert J. Robertson unveiled a commemorative stamp that was first placed on sale, October 13, during the first full day of the national convention. Featured on the stamp is a Future Farmer viewing a typical farm scene with wording across the bottom calling attention to the 25th anniversary of FFA.

As part of a pageant depicting the growth of the FFA, a huge "birthday cake," made of white crepe paper, was exhibited October 14. At a given signal 25 FFA members burst thru the top of

(Continued on Page 19)

the big cake, representing the candles.

One of the many interesting side-
lights was the address at the conven-
tion by James Muir and John Pickthal,
of England. They are exchange student
farmers and members of the National
Federation of Young Farmers, an or-
ganization similar to the FFA.

Representatives to the convention
came from all 48 states, Hawaii and
Puerto Rico. Massing of the state flags
again gave color to the proceedings as
did performances by the FFA band and
chorus.

David H. Boyne, 19, of Marlette,
Mich., was elected national president
of the FFA for 1953-54 to succeed
James Dillon, of Jones, La.

Roger Adamson, of Cherryvale, won
second place in the national FFA pub-
lic-speaking contest held opening eve-
ning of the convention. His topic for
discussion was "Our Soil and Our Free-
dom."

Top award, the "Gold Emblem," was
made to Little River Chapter, Little
River, in the FFA's National Chapter
Contest. Only 45 gold emblems were
awarded. The FFA has about 8,500 lo-
cal chapters in the 48 states, Hawaii,
and Puerto Rico.

Kansas representatives in the live-
stock, meats, and poultry-judging con-
tests made a good showing. Cherry-
vale's poultry-judging team of John
Townsell, Roger Adamson, and Robert
McClaren won a gold plaque with Town-
sell winning a gold medal and Adamson
and McClaren winning silver medals.

In meats judging, Quinter's team of
Jack Sutcliffe, Dwight Jamison, and
Boyd Tuttle won a silver plaque with
Sutcliffe and Jamison winning gold
emblems and Tuttle receiving honor-
able mention.

Livestock judging saw Kansas' team
from Hill City win a silver plaque. Le-
onne Worcester, Allen Worcester, and
Curtis Harvey all won silver emblems.

American Farmer degrees were
awarded Marvin G. Allen, of Olathe;
Kermit Case, of Lyons; Ronnie Hughes,
of Emporia, and Donald W. Hunt, of
Arkansas City. Honorary American
Farmer degrees were made to Senator
Frank Carlson and Milton Kohrs, of
Little River.

Future Farmers of America esti-
mated that 200,000 to 300,000 new
farmers are needed every year to re-
place those who die, retire, or leave the
farm. Our schools graduate only 75,000
each year and it is easy to see FFA is
doing much to fill the gap.

Study Fertilizer Handling Methods

Safe methods of handling liquid fer-
tilizers is being studied. A special ad-
visory committee of the State Board
of Agriculture met in Topeka October
13, and considered changes in proposed
regulations for safe handling, storage
and transportation of liquid fertilizers.

More IFYE Visitors

Two more IFYE delegates are visit-
ing in Kansas. David Williams from
England and Joyce Schofield from
Australia are spending 3 months here.
The Dean Hoffman family, of near
Ablene, are hosts to Dean during first
half of his stay in Kansas, and the
Ansel Ellis family, of Lyons, are first
hosts to Miss Schofield. Both come
from farms and are members of farm
youth clubs. They will return home in
January.

Laborsaving Equipment

Self-feeders, automatic water-
ers, tank heaters, farrowing
houses, pig brooders, creep feed-
ing—all these laborsaving devices
help you in many ways. For a free,
new booklet, "Laborsaving Equip-
ment," for raising meat-producing
livestock, write Farm Service Edi-
tor, Kansas Farmer, Topeka, Kan.
It's published by National Barn-
yard Equipment Council.



LLOYD BURLINGHAM'S

SKELLY FARM NEWS

Down 15%, but...

True this farming business has had a rough go in 1953. We've sold
more stuff than last year but got less money for it. And most of what
we've bought has cost more. Result, close to 15 per cent less net
income than in 1952.

That's not so good. It's bad. But it looks as if the worst of the
decline is past. One of these days we'll learn to merchandise and
distribute food as effectively as we now produce it. We'll find a way
to export price-depressing surpluses, or use them up here at home.
The consumer demand for food continues strong and every day
there are 7,000 more Americans. Babies can bail us out of our over-
supply difficulties. Our population gains at a rate of 2½ million a
year—and every one of them eats! Add up all the "down" factors
in sight and 1954 can be full of fine farming possibilities. If all that's
favorable works out, 1954 will be a near record year agriculturally.
Balance the unfavorable against the promising, and there's money
in 1954 for the efficient farm operator.

Your Skelly Tankman Says: Fortify Farm Equipment Against Winter Wear with SKELLY Lubricants



Frigid temperatures and unpro-
tected bearings can be a very costly
combination! Insulate your trucks,
tractors, and other farm machinery
against needless winter wear. In-

sure and increase the life of your
machinery by thorough lubrication
now!

Get the finest in guaranteed farm
equipment lubrication by getting
and using Skelly Long-Life Greases
and other special Skelly farm lubri-
cants.

Protect your engines against
power-wrecking sludge by changing
to Skelly Fortified Tagolene H. D.
Motor Oil.

Winter-Ready Your Car Now!

Change to New SKELLY SUPREME Motor Oil for INSTANT FLOW at 40° BELOW

Why risk getting "stopped cold" with a
motor oil that can get frozen stiff! Today,
for the first time, you can have the motor
oil that assures *instant* and *complete* engine
lubrication even at 40 degrees below zero!

New Skelly Supreme lets your starter spin
your engine freely even after long exposure
to sub-zero temperatures—yet STANDS UP
amazingly under intense engine heat. You'll
save oil, too, with the world's most tempera-
ture-proof motor oil. Skelly Supreme has the
highest viscosity index known!

Beats Sludge—Beats All in guaranteed en-
gine lubrication! New Skelly Supreme con-
stantly scrubs as it lubricates—never gives
sludge and other cold-weather impurities a
chance to deposit on vital bearings and sur-
faces. A "must" for keeping hydraulic valve
lifters free from sticking!

GET YOUR SKELLY FALL CHANGE NOW!



SKELLY OIL COMPANY

P.O. BOX 436, KANSAS CITY, MISSOURI



The Outlook for Porkers



Pork prospects are favorable for
producers. More fall pigs have been
saved than predicted but around 10
per cent fewer hogs will be mar-
keted during the next four months
than a year earlier, feed will be
cheaper and consumer demand for
pork is strong.

A New Trend in Cattle

Cattle numbers are leveling off. An
increase of 17 million head came in
the four years 1949-52. The usual
cattle population cycle calls for two
more years of gains, but heavy
slaughter appears to have ended the
climb in numbers. Prices in 1954 are
likely to average about as in 1953,
but with low-quality stuff off some-
what and well-finished cattle
stronger. That is, the price spread
will be greater.



Why Wait for Spring to Spread Fertilizer?

Recent experiments by state uni-
versities in Iowa, Minnesota, Mis-
souri, and Indiana indicate that good
results can be expected from fall
fertilizing. It works well in areas
where winter rainfall is light and
where the ground stays frozen all
winter.

Fall fertilizing offers many advan-
tages. You can get the spreading job
out of the way when you are not
busy in the fall, and avoid this time-
consuming job in the spring "rush"
months. In the fall, too, fields are
usually dry and better conditioned
to support heavy trucks used for fer-
tilizer spreading. Moreover, you
won't have to find space to store the
fertilizer over the winter months.

Spreading and plowing down in
the fall helps speed the rotting of
stalks and straw—which assures suf-
ficient plant foods to supply both
the soil organisms and the crops dur-
ing the next year.

However, fall spreading and plow-
ing does not entirely do away with
the need for fertilizing in the spring.
It is still wise to use a "starter" fer-
tilizing to speed young plants into
strong, sturdy growth.

Is Beria in Boston?

For the news behind the news,
listen to Alex Dreier on Skelly's
First Network News Analysis of
the Day. 7:00 A.M. over your lo-
cal NBC station. Saturday morn-
ings, hear Lloyd Burlingham—
see your local newspapers for
time and station.

When you hear the honk of the wild
goose don't you often wonder . . .

Where do the birds go?

By L. B. CARSON

MIGRATION

*Who guides the birds in all their flights
O'er stormy seas. On darkest nights?
Who tells them when to come or go
To greet the spring. To miss the snow?
Such things are mysteries to man,
But just a part of Nature's plan.*

WHAT HAPPENED to the birds? The question is not new, for Aristotle noted the absence of birds in areas where they were formerly abundant. History does not give us a clear picture of all the facts in his observations. It is barely possible that Aristotle invited a few of the boys in for a duck dinner and then discovered that the ducks had departed. This would be a problem for in those days he could not reach into the home freezer and pull out a turkey, rump roast or what have you. Neither did he call his guests and tell them that the cook was down with a virus and please make it some future date.

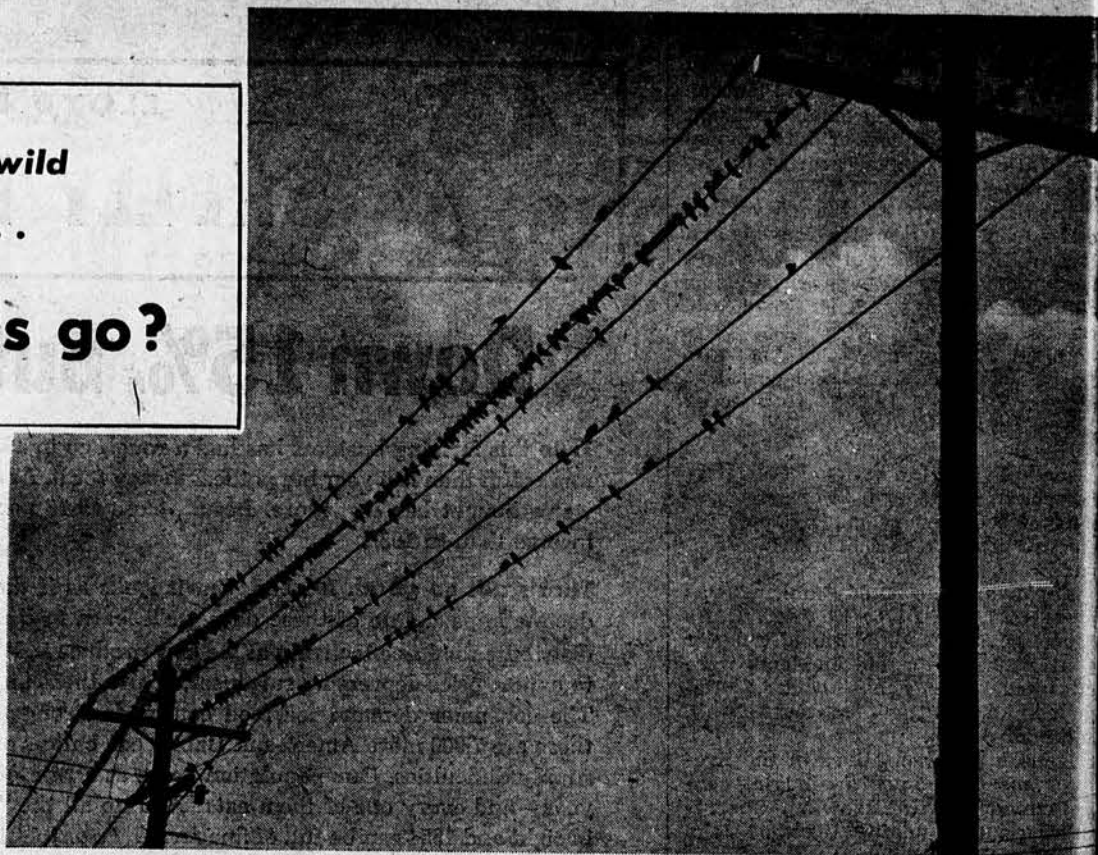
Aristotle knew there must be some answer to his problem, but where to find that answer gave him something to ponder over. After careful thought, he decided that they had hibernated. He pictured birds as passing thru the cold seasons in a torpid state, hidden in hollow trees, caves, or buried in the mud of marshes. Early naturalists adopted his ideas and wrote glaring accounts of swallows congregating in the

marshes until their weight bent the reeds and they were submerged. Some even told of fishermen catching a mixed bag of fish and swallows.

These theories persisted for centuries and to such an extent that in 1878, Dr. Elliott Coues, one of America's noted ornithologists, listed the titles of 182 papers on the hibernation of swallows.

Now we know the answer to this ancient problem . . . migration. Thru the use of bird-bands, first introduced by a Danish schoolmaster, H. C. C. Mortensen in 1899, and later adopted in America by Dr. Paul Bartsch (1902) and P. A. Tavener (1904), we are able to see the pattern forming. The American Bird Banding Association developed the program from 1909 until 1920 when they turned it over to the U. S. Biological Survey, now known as the U. S. Fish and Wildlife Service. The combined efforts of these organizations and hundreds of licensed bird banders gives us the picture. Banding and recovery records furnished the data which was needed.

[Continued on Page 32]



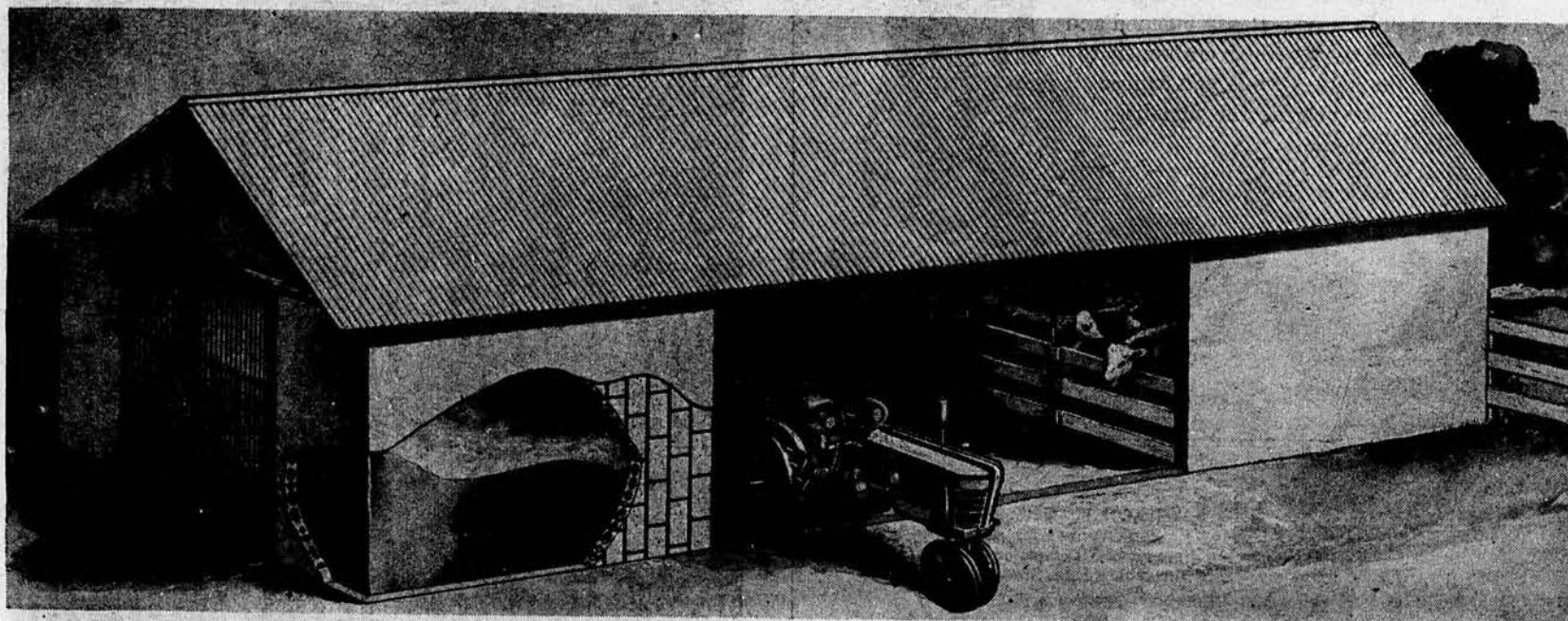
PURPLE MARTINS gather on highline in August, waiting for magic signal to leave for the south. Martins offer one of the mysteries of migration for they arrive in March when insects are scarce and leave when food is abundant.



WHITE PELICANS make beautiful pattern in sky as they fly to winter quarters in Central America. With wingspread of 8 to 10 feet, flocks move silently but with assurance, south in October and November, north in March and April.

THOUSANDS OF GEESE halted in Midwest by March snowstorm. Flock of snow, blue, white-fronted and lesser Canada geese are eager to be on their way to the North nesting grounds from winter along gulf coast. They return in October and November.

DODSTONE IS YOUR BEST BUY IN AN ALL-PURPOSE FARM BUILDING!



A "DODSTONE" STEEL-REINFORCED BUILDING—DELIVERS FOR AS LITTLE AS \$38 DOWN

What Can You Use It For?

Grain Storage • Machine Shed • Cattle Shed
Hay Barn and Others

Count the uses you would have for this genuine Dodstone building. Use it for grain storage, machine shed, cattle shed, hay barn, loafing barn or general purposes. There is no limit to the utility of this building... use it for any one purpose or any combination. You'll always have plenty of uses for it because it's

permanent, storm proof, rodent proof, fire proof, warm in winter, cool in summer and is easily adapted to fit the need of the hour. Erection is fast and easy... but a Dodstone building will look new and stay in first-class shape for years to come with a minimum of maintenance. Compare Dodstone with any other farm building and you'll choose Dodstone!

What About this \$38 Plan?

\$38.00 down will deliver a Dodstone building or silo to your farm. Pay the balance from increased earnings and savings. Remember a 26 x 100 Dodstone building can be bought at less cost than a tent of the same size.

While new government regulations permit you to deduct depreciation of grain storage structures from your income tax over a five year basis with an automatic certificate of necessity, your Dodstone building lasts for life!

Why Choose Dodstone?

1. Dodstone is a light-weight, high-strength masonry block, 40% lighter than sand concrete. Requires less footing.
2. Dodstone has insulation value six times greater than ordinary concrete and the walls do not crack.
3. Dodstone is bolted together with steel rods and bonded with rich concrete grout.
4. Dodstone buildings are adaptable for any farm building, home or industrial use.
5. Dodstone buildings are maintenance free and look "new" for years to come.
6. Air space in units prevents sweating.
7. Dodstone can be finished in any color of Drylite Paint to fit the color scheme of your farm.

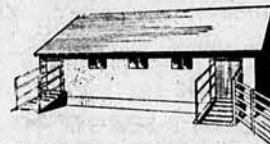
Dodstone Buildings Are Warm in Winter, Cool in Summer, Storm Proof, Fire Proof, Rodent Proof, Rot Proof!



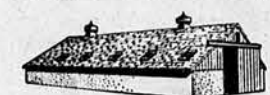
DODSTONE BARN



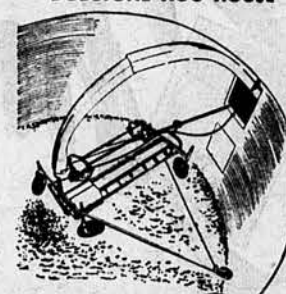
DODSTONE POULTRY HOUSE



DODSTONE MILK PARLOR



DODSTONE HOG HOUSE



McLEAN
SILO UNLOADER



DODSON
"RED
AND
WHITE
TOP"
SILO

SEE ONE OF THESE DODSON REPRESENTATIVES OR WRITE DIRECT TO DODSON'S FOR FREE LITERATURE

In Kansas

Albert, Joe Malek
Americus, L. M. Milliken
Attila, Arch Crenshaw
Baldwin, Madl Implement Co.
Bartlett, A. D. Graves
Benton, J. R. Malcom
Bonner Springs, Ed Luther
Brewster, Andy Pounds
Burlingame, W. A. Droege
Caldwell, S. L. Young
Cherryvale, F. B. Radcliff, Sr.
F. B. Radcliff, Jr.
Cleveland, Frank Benson
Colby, Howard Grover
Leslie Linville
Colony, Lloyd Weatherman
Concordia, Chester McWilson
Council Grove, Roy Brown
Cummings, Elmer Blodgett
Cunningham, John Schnitker
Downs, Henry Muck

Elkhart, Earl White
Everest, Wayne Ukena
Fort Scott, Wayne Miller
Garnett, Leo Katzer
Glen Elder, A. W. Griffith
Goddard, John F. Meis
Harper, Hap Scarlett
Harris, Mike Mulcahey
Haven, A. J. McCurry
Hunter, Nick Greiner
Iola, G. W. Teague
Jennings, Edgar Williams
Jemore, Melvin Stegman
Jewell, Howard Oplinger
Johnson, John Shore
Kingman, Hugo Oeding
Larned, Paul Ohnmacht
Lawrence, Lea Roy Hurley
Leon, A. J. Thompson
Leoti, Chas. Mitchell
Lincoln, Hobart Herman

Lorraine, Ernest Wamhoff
Minneapolis, A. H. Dreschner
Walt Wesley
Newton, A. C. Suderman
Norwich, Marshall Oylor
Oskaloosa, Harold Ottensmeyer
Oswego, Phil Hellwig
Ottawa, Earl Sink
Paola, Steven Russell
Parsons, W. E. Baugher
Glen Hoke, Hoke Implement Co.
Peabody, John DeForest
Tiny Herbert, Peabody Farm Supply
C. P. Reiger
Perth, Harlan Thomas
Pleasanton, John Wolfinger
Potwin, M. E. King
Pretty Prairie, Carl Vordan
Quincy, Fred Shaw
Randolph, Paul Brenner
R. W. Kunze

St. John, Art Francis
Sharon, Stillman Smith
Simpson, Walter Adams
Smith Center, Emil Badenhop
Stark, Raymond Gatewood
Strawn, Howard Claycamp
Thayer, H. V. Heilman
Timken, Charles Pivonka
Turon, Tom Yeager
Waldron, Hughes Bros.
Wellington, Loyd D. Metz
Wichita, O. L. Gorges
Clinton Cross
O. A. Karr, Route 8
Woodston, Truman Gregory
Zenda, Eldon Martin
In Oklahoma
Braman, Leonard Hembree
Jefferson, Ivan Shire
Medford, R. J. Early
Wakita, Bob Lacy

DODSON MFG. CO., 1463 Barwise... Wichita, Kansas

RUGGED!

But not an ounce of excess weight to tire you out because they're made from extra tough rubber, expertly blended and hand-crafted by footwear craftsmen to give you the honest value you expect from footwear bearing the famous Red Ball trade-mark.



➤ **MANISTEE** America's most popular all around arctic. Live rubber, pressure vulcanized. Rust resistant buckles, correctly spaced, anchored on to stay. Reinforced at points of strain. Sizes for the family.



➤ **WISKON** light, tough, comfortable work rubber for all around good service. Flexible, easy-on-and-off. Pressure vulcanized. Smooth, satin finish.

RED BALL

WEATHERPROOFS

TRADE
MARK

by BALL-BAND

The mark of good footwear since 1891.

MISHAWAKA RUBBER & WOOLEN MFG. CO., MISHAWAKA, INDIANA

KANSAS FARMER FOR CHRISTMAS

The Gift That Keeps Giving the Year 'Round

Give your friends a subscription to KANSAS FARMER this Christmas. They'll appreciate your thoughtfulness with the arrival of each new issue.

Address your orders to

Circulation Manager, KANSAS FARMER

8th & Jackson Sts., Topeka, Kansas, for prompt attention

Send 50c for 1 year; \$1.00 for 3 years; \$1.50 for 5 years

DON'T FORGET TO RENEW YOUR OWN SUBSCRIPTION



The 1935 Christmas seals for the Crippled Children Fund are now ready.

The subject is a little girl whose blue eyes are full of wonder. Maybe she is dreaming of what Santa Claus will bring for her. Or, she could be a crippled child clinging to the hope that in some way she may be made well again.

The attractive design is done in four colors—yellow, red, blue and brown. It is a unique bit of brightness that will add interest to holiday mail. If you have not received yours, return coupon today for a FREE sheet of 100 seals.

◆ ◆ ◆ ◆ ◆ COUPON ◆ ◆ ◆ ◆ ◆

The Capper Foundation for Crippled Children
8th & Jackson Sts., Topeka, Kansas

Dear Sir:

I accept your offer to send me a sheet of 100 Christmas Seals with the compliments of the Capper Foundation. Sometime before Christmas I expect to send my contribution to the Crippled Children Fund.

NAME

ADDRESS

So You'll Never Run Out of Feed

(Continued from Page 4)



IN YEARS of surpluses, extra silage can be stored in temporary stacks like this crib silo. Eugene O'Trimble, of Jefferson county, explains to County Agent Nelson Stroud that this 40-ton crib must be fed out quickly to avoid excess spoilage.

had this practice been followed. Here are the results:

Our sample farmer would have been short of feed 11 out of the 24 years. With no feed reserve, either feed would have been purchased or livestock sold during those 11 years. During the 24 years a deficiency of 381 tons occurred. Thirteen years of the 24 a surplus of silage was produced amounting to 471 tons. However, since no provision was made for storing this surplus over the years, it was largely wasted. A common practice in the area is to burn such surplus feeds in the spring.

A second silage program applied to

our sample farm called for silage production to provide 2 years' feed needs as permanent storage capacity plus temporary storage. This plan is shown in the table accompanying this story. Studying this table you will note our sample farmer had to plant additional acreage 11 of the 24 years to make up for shortages from the previous year and that in 13 years he had to provide for some temporary storage. By following this formula, however, he would never have run out of feed.

Here are additional benefits derived from a safe feed reserve, according to (Continued on Page 23)

Silage Production With 2 Years Feed Needs in Permanent Storage Capacity Plus Temporary Storage

Year	Feed Reserve (annual carryover)	Production from 26 acres planted each year—24 yr. average 6.6 tons per acre	Extra acres planted to maintain reserve following shortages—basis 24-year average 6.6 tons	Total supply November 1, each year	Feed needed each year	Left for reserve	Surplus to temporary storage
1929	171	9.0	234	405	171	171	63
1930	171	10.5	273	444	171	171	102
1931	171	7.5	195	366	171	171	24
1932	171	9.0	234	405	171	171	63
1933	171	7.5	195	366	171	171	24
1934	171	1.8	47	218	171	47	..
1935	47	5.4	140	290	171	119	..
1936	119	4.5	117	272	171	101	..
1937	101	6.0	156	353	171	152	..
1938	152	5.7	148	317	171	146	..
1939	146	5.4	140	308	171	137	..
1940	137	6.9	179	350	171	171	8
1941	171	6.9	179	350	171	171	8
1942	171	6.6	172	243	171	171	1
1943	171	4.7	122	293	171	122	..
1944	122	6.7	174	343	171	171	1
1945	171	5.8	151	322	171	151	..
1946	151	6.5	169	340	171	169	..
1947	169	3.9	101	274	171	103	..
1948	103	8.3	216	402	171	171	60
1949	171	7.1	185	456	171	171	14
1950	171	10.5	273	444	171	171	102
1951	171	7.1	185	356	171	171	14
1952	171	4.5	117	288	171	117	..

When a total permanent storage capacity for 2 years feed needs was available and extra acres were planted to maintain a full year's reserve, this farm never ran out of feed.

Cloud County Data—Source, State Board of Agriculture.

College farm management specialists:

1. Better pastures—no pressure to graze too early, to overstock, or graze too late.
2. Reduces uncertainty by the presence of adequate feed supplies.
3. Reduces possibility of forced livestock liquidation on an unfavorable market.
4. Permits planning of a desirable long-time crop rotation or sequence with minimum disruption due to unfavorable weather.
5. Greater stability for the livestock enterprise as a part of the farm business. Such a practice, if widely used, would help stabilize livestock markets.
6. Conservation of feed crops rather than waste during years of high production.

"Yes," you say, "but how about the cost of such adequate feed reserves?" The cash cost, say farm management specialists, may be relatively less than losses from having to buy feed at unprofitable prices or having to sell livestock on a distressed market.

How Costs Were Figured

Here is how specialists figured costs on our sample Cloud county farm. Figures, of course, are estimates or appraisals:

1. Growing costs of 171 tons of silage from 26 acres at \$13.50 an acre, \$351.
2. Growing costs of an average of 4 extra acres a year to make up for shortages, \$54.
3. Harvest and storing in silo at \$2 a ton, \$342.
4. One hundred seventy-one tons extra storage permanent type at \$5 a ton, \$855.

Total cost for these items, \$1,602.

Annual carrying charges:

1. Four per cent depreciation on one silo (cost \$855), \$34.
2. Five per cent interest on growing, harvesting and $\frac{1}{2}$ silo cost, \$70.
3. Three per cent loss from shrinkage, spoiling, basis growing and harvesting costs, \$25.

Total yearly cost for these items, \$129.

Insure Feed Reserves

Summing up, Mr. Love says: "For an original expenditure of \$1,602 for a one-year reserve—a liquid asset that can be cashed out at any time—and an annual carrying charge of less than \$130, our sample farmer could insure his feed reserves. A \$1,600 capital outlay is small when compared to losses sustained by farmers who are forced to buy feed or sell livestock.

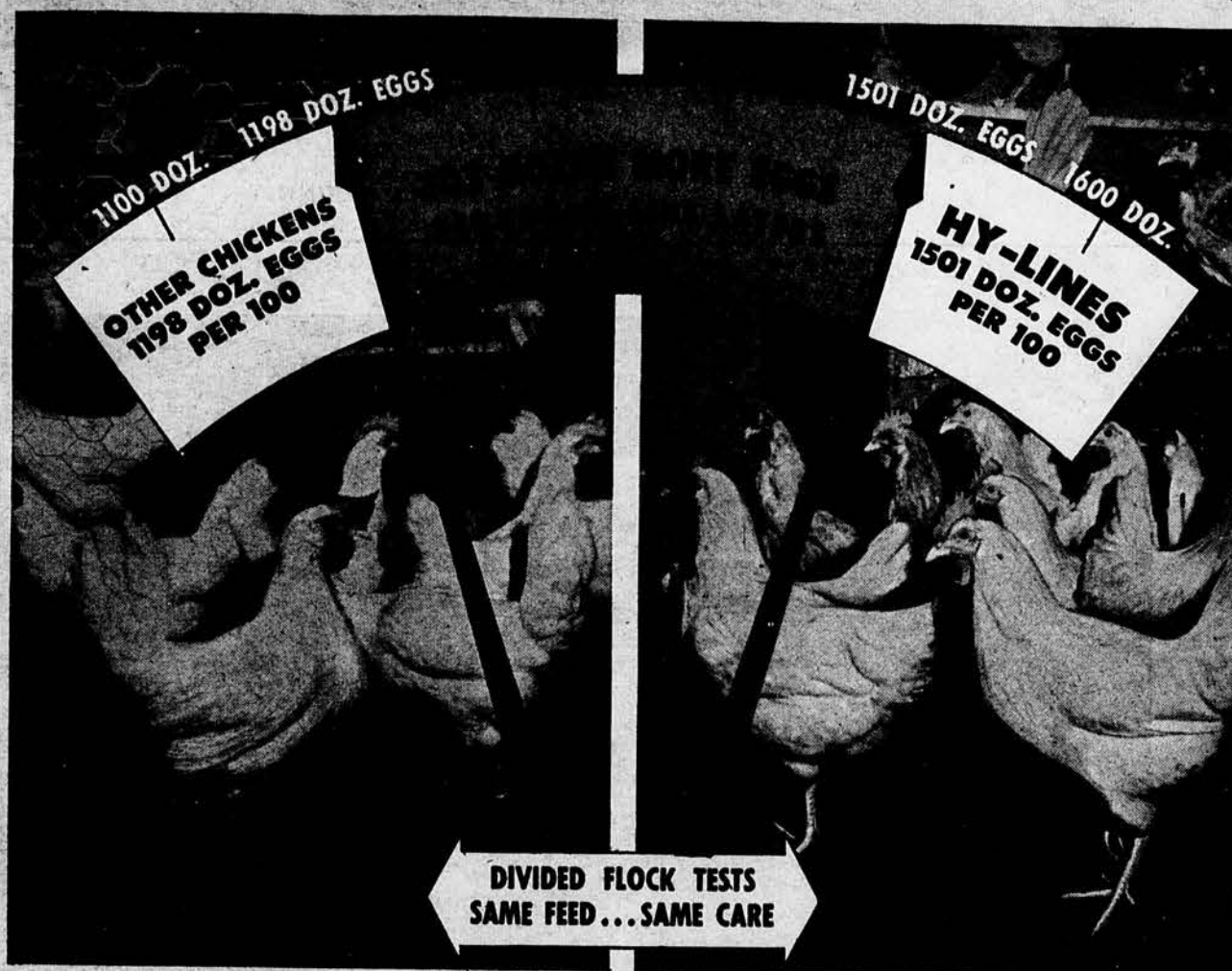
"Present feed shortages," continues Mr. Love, "are often caused by decisions of the past and by not having pertinent facts when those decisions were made. The plan suggested here has stood the test of time. The time to start getting your plans made for an adequate feed reserve is NOW."

These Recommendations Offered

After research studies by C. Peairs Wilson, assistant director of the Kansas Experiment Station; Paul W. Griffith, associate dean and director, Extension service, and others, the following recommendations are offered:

1. Use the best long-time yield data available on silage yields for your territory when planning acreage for silage crops.
2. Plan a one-year feed reserve for Eastern and East Central Kansas, and a full 2-year feed reserve for West Central and Western Kansas. At the start of the fall feeding period this means 2 years of silage on hand in Eastern Kansas and a 3-year supply on hand in Western Kansas.
3. Following a year of short production plant extra acres, based on the long-time yield averages, to bring reserves back to normal.

Can this formula be applied to your farm? We believe it can. If you know the animal unit silage needs for your livestock program and average sorghum yields for your county or farm over a long period of years, you can work out a program that will insure your needs. Your county agent will be glad to help you. Good planning and practical application mean profits.



Hy-Lines Average 303 Dozen EXTRA EGGS PER 100 HENS

3 DIFFERENT SERIES OF Hy-Line LAYERS



100 SERIES

Cream Eggs

Proved superior in 1182 divided flock tests; averaged 303 dozen eggs more per year per 100 birds over standard breeds and crossbreds. Averaged same livability as Leghorns: Laid dozen eggs on 2 pounds less feed than heavy breeds. About 20 million "100 Series" Hy-Lines were hatched for poultry raisers in 1953.



800 SERIES

Brown Eggs

These are meat-egg chickens. Average $5\frac{1}{2}$ to 6 pounds per hen. Livability much better than Leghorns. Outlay standard bred heavies 20 to 25%. Eggs average over 25 ounces per dozen. Pullets are reddish brown; cockerels white with black markings on neck, wings and tail. Limited in quantity.



900 SERIES

White Eggs

These new Hy-Lines produce pure white eggs. Egg production equals "100 Series" Hy-Lines. Egg size, at present, is slightly smaller than the popular Hy-Line No. 156. In body weight, they average $4\frac{1}{2}$ pounds. Show better laying house livability than Leghorns. Limited in quantity.

For three years, poultrymen in 20 states and Canada have compared Hy-Lines (100 Series) with other chickens in divided flock tests. In all, they've made 1182 separate tests under practical farm conditions. All chickens in each test got the same feed and the same care. Here are the results, based on complete records:

Average of 11 mo. of lay per 100 pullets housed—
HY-LINES LAID 1501 DOZEN EGGS
OTHER CHICKENS LAID... 1198 DOZEN EGGS
HY-LINE ADVANTAGE .. 303 DOZEN EGGS

A total of 201,452 Hy-Lines were compared with 204,220 other chickens. Per 100 birds, the Hy-Line advantage over Leghorns averaged 272 dozen eggs; over Crossbreds, 291 dozen eggs; and over Heavy Breeds, 417 dozen eggs.

On the Average **Hy-Lines** Return More Than Triple Their Extra Cost as Chicks
Less than a dozen eggs per bird pays for the extra cost of Hy-Line pullet chicks—and Hy-Lines average MORE THAN THREE DOZEN EXTRA EGGS PER YEAR over standard breeds and crossbreds.

This egg laying advantage is the result of 17 years of research. Today a team of about 75 Hy-Line technicians carries on what is probably the largest single research program ever put into the breeding and improvement of chickens.

Your extra investment in good breeding pays off in extra profits—when you say: "Make mine Hy-Line!"

SAVE MONEY by placing your order for Hy-Line Chicks by DEC. 1

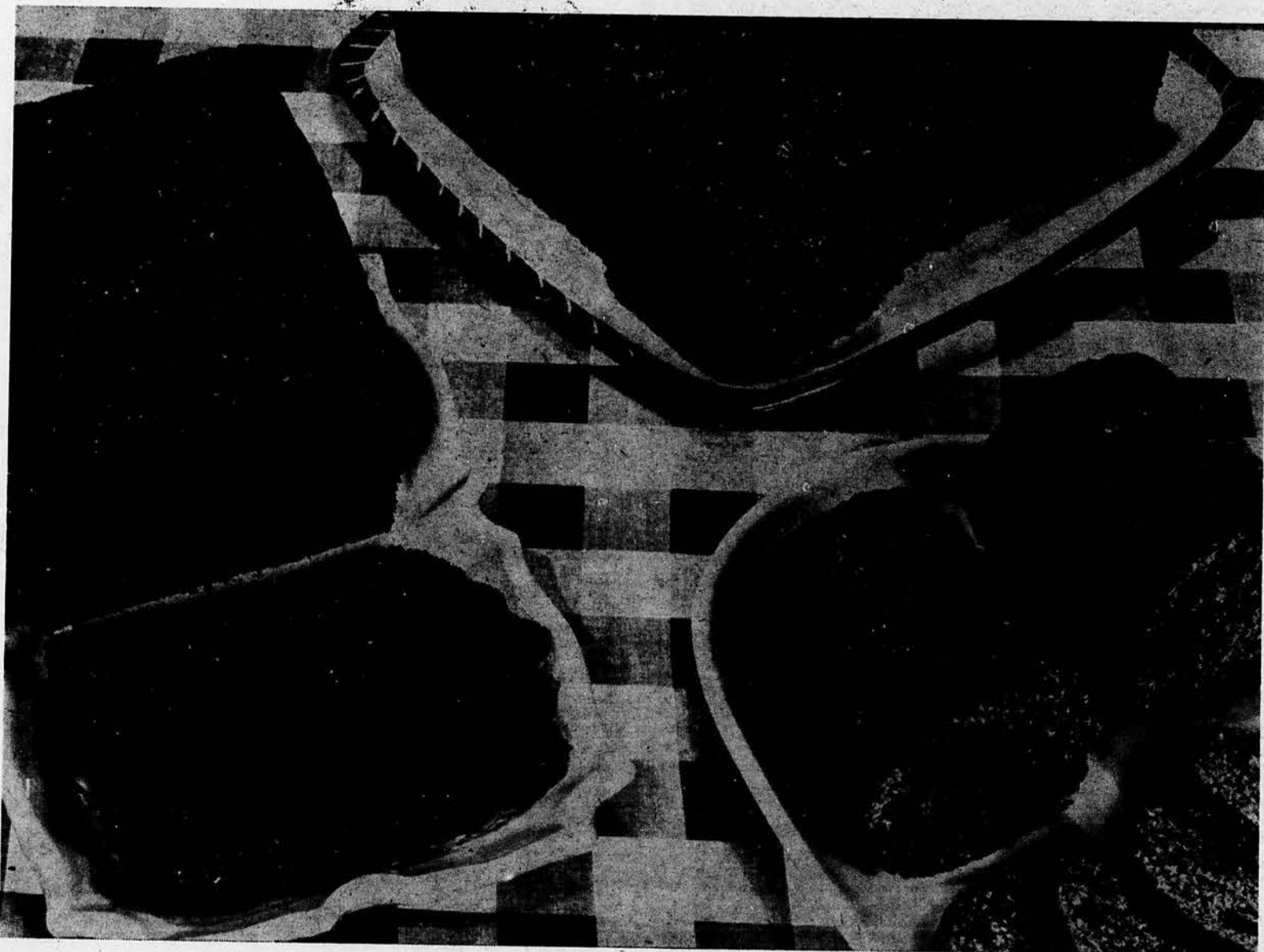
A small deposit books your order now and reserves your chicks for the date you choose. See our representative in your community or write for complete details—and

Get This Big EARLY ORDER SAVING



Kansas Farm Home and Family

By FLORENCE MCKINNEY



MOLASSES BROWN BREAD sandwiches will be a welcome surprise in the lunch box. Spread with butter and seasoned cottage cheese, it adds variety.

Sandwiches for the lunch box

GOOD SOLID protein belongs in every lunch box and that means meat, eggs, cheese, beans and nuts or combinations of them. All these foods fit best into the sandwich. Avoid fillings that soak up bread. In warm weather avoid fillings such as ground meat.

Cold salmon loaf sliced makes delightful sandwiches for the lunch box. And it goes without saying that roast beef, pork, boiled tongue and ham are hard to beat.

Special breads add variety to what might become a monotonous diet. Molasses brown bread, buttered and spread with a seasoned cottage cheese will be a nice surprise for your school boy or girl.

Molasses Brown Bread

1 cup ready-to-eat bran	1 egg
1/2 cup seedless raisins	1 cup sifted all-purpose flour
2 tablespoons shortening	1 teaspoon baking soda
1/2 cup molasses	1/2 teaspoon salt
3/4 cup hot water	

Measure bran, raisins, shortening and molasses into mixing bowl. Add hot water, stirring until shortening is melted. Add egg and beat well. Sift together flour, soda and salt. Add to bran mixture. Stir only until combined. Fill 2 greased cans about 2/3 full; or spread in greased loaf pan. Bake in moderate oven (350°) about 45 minutes for bread in cans or about 35 minutes for loaves. Remove from cans or pan, slice and serve hot for supper and remainder for sandwiches following day.

Cottage Cheese-Apple Butter Sandwich Filling

3/4 cup cottage cheese 1/4 cup apple butter
Combine cottage cheese and apple butter. Spread butter on bread, then the filling. Makes about 5 sandwiches.

Cottage Cheese-Peanut Sandwich Filling

1 cup cottage cheese 1/3 cup chopped peanuts
1/4 cup mayonnaise or salad dressing 1/8 teaspoon onion salt

Combine all ingredients, spread butter on bread, then filling. Makes about 7 sandwiches.

Ham-Egg Sandwich Filling

1 cup ground ham	2 tablespoons chopped-sweet pickle
1 hard-cooked egg, chopped	1 teaspoon prepared mustard
1/4 cup mayonnaise or salad dressing	

Combine all ingredients. Spread butter on either white or wholewheat bread, then filling. Makes about 5 sandwiches.

Baked Bean Sandwich Filling

1 cup baked beans	2 tablespoons chopped sweet pickle
1/4 cup chopped, cooked bacon	2 tablespoons mayonnaise or salad dressing
1/2 teaspoon salt	
3 tablespoons catsup	

Mash beans with a fork. Combine with remaining ingredients. Spread bread with butter, then filling. Makes about 5 sandwiches.

Heater Warms Floor for Playing Children



A YEAR AGO Mr. and Mrs. Argyl Blume, of Westmoreland in Pottawatomie county, bought a modern heater for their country home. "We like it fine and wouldn't do without it," says Mrs. Blume. She sets the dial at the temperature she wants and it heats all 4 first-floor rooms in average winter weather. An electric fan at the back of the heater may be turned on if weather is severe and windy. It blows the warm air onto the floor making the rooms comfortable for her young sons who often play on the floor. Fuel is butane or propane stored in underground tanks.

An added safety feature is the automatic control on the gas line which shuts it off in the event the pilot light

goes out. Her heater is medium-size, new in design for modern homes in a brown and beige cabinet. Mrs. Blume is shown above with 10-months old Gary.

How to Get Rid of Ants

A new leaflet entitled "Ants in the Home and Garden, How to Control Them," is now ready for distribution by the U. S. Department of Agriculture. For a free copy, write to Farm and Home Service Editor, *Kansas Farmer*, Topeka, Kan.

FOR YOUR NEEDLE



7398—Old-time cars in jiffy cross-stitch. Frame a pair for living room, use on towels or pillows. Six transfers about 4 by 6½ inches.

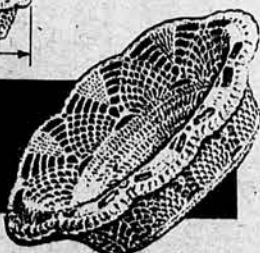
823—Presto! No embroidery. Washable iron-on pansies in blue and yellow with green leaves. Will look hand-painted. Transfer of twelve, 1½ by 2½ to 4 by 7 inches.

IRON-ON COLOR
DESIGNS IN BLUE,
YELLOW, GREEN

823

798—Crochet a basket! Looks like straw, really straw yarn or cotton sugar-starched into shape. Dramatic centerpiece. Crochet directions for basket, 9 by 15 by 4 inches. Holds fruit or flowers.

663—He's 32 inches high, big as a little boy. Your child will love him for a playmate. Dress in size two boy's clothes. Pattern pieces, easy-to-follow directions included.



663

Patterns 25 cents each. Address Needlework Editor, *Kansas Farmer*, Topeka.



"GOOCH helps me get More and Finer Christmas Gifts for my Money!"

The GOOCH RED CIRCLE Catalog makes my money go TWICE AS FAR!
IT'S EASY... IT'S FUN

● HERE IS ALL YOU DO! Select the items of your choice from the GOOCH RED CIRCLE Catalog. Send your order with the required cash and GOOCH RED CIRCLE points to GOOCH, LINCOLN, NEBR., OR SALINA, KANSAS. If your order totals \$10 or more in cash, tell which of the FREE BONUS GIFTS you want.

HURRY! This offer ends December 15, 1953, so we can make delivery to you before Christmas.

Free Bonus Gift for me, too, if I buy this way, now!

Choose Your Bonus from these Lovely Gifts

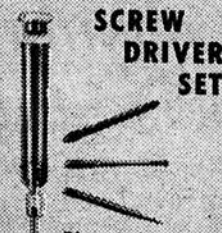
(One of these gifts free with cash order of \$10 or more)

MEN'S NYLON HOSE



Comfortable, long wearing! DuPont nylon with mercurized heel and toe. 2 pair to box, maroon and blue. Sizes 10-12. Usual retail value (2 pr.) \$2.00

SCREW DRIVER SET



The right screw driver for different jobs—handy for home, car or workshop. Screw chuck. Usual retail value, \$1.25

LADIES' NYLON ANKLETS



Durable, white 100% nylon that stays white. Sizes 6-11. Usual retail value (3 pr.) \$3.00

IMPORTED SILK SCARF



Luxurious pure silk with hand screened prints—30" square. Assorted colors. Usual retail value, \$1.98

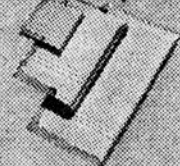
LADIES' NYLON HOSE



Sheer, flattering—and long wearing, in DuPont nylon. Seasonal shades: light neutral, light hazelnut, and bluish-tinted beige. Sizes 8½-11. Synchroized lengths. Usual retail value, \$1.50

TOWEL SET

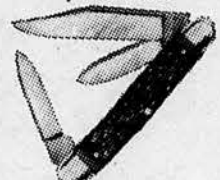
by Cannon



Luxurious set in colors to harmonize with any bathroom. Choice of Petal Pink, Mimosa Yellow, and Flamingo. Usual retail, \$1.85

POCKETKNIFE

by Kutmaster



Ideal for any man or boy! 4" holder has three razor-sharp blades. Brass lined stag handle. Usual retail value, \$2.50

BASEBALL

by Wilson



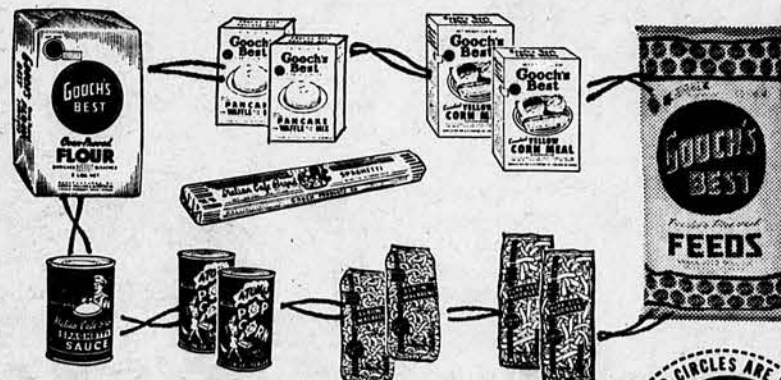
"Must have" for the boys—great for dad, too. Bob Feller Fire Ball—compressed wool felt core, horsehide cover. Usual retail value, \$1.25

GET YOUR FREE GOOCH RED CIRCLE Catalog



from your favorite grocer, feed dealer or write to GOOCH, Salina, Kansas

GOOCH RED CIRCLES are found on All GOOCH'S BEST PRODUCTS



GOOCH LINCOLN, NEBRASKA
SALINA, KANSAS



Now, more than ever—

GOOCH RED CIRCLES Are Valuable—COLLECT AND SPEND THEM!



Busy mother finds time to win cooking contests

Takes 6 Cooking Awards at Kansas State Fair

It's easy to see that Mrs. George Schrock's cooking skill pays off! And the ribbons she holds are only part of her collection. Mrs. Schrock of Hazelton, Kansas, won these six awards just last year at the Kansas State Fair.

With a husband and two sons to cook for, Mrs. Schrock really appreciates the convenience of Fleischmann's Active Dry Yeast. "It always rises fast," she says. "And I like the way it keeps for months."

Out of 9,449 prize-winning cooks surveyed, over 90% prefer Fleischmann's Active Dry Yeast. This grand dry yeast keeps for months on your shelf . . . always rises fast. And now it's a real money-saver in the thrifty new three-package strips. "Thrifty Three's" are economical to buy—so easy to store in your cupboard. When you bake at home, use the best—get Fleischmann's Active Dry Yeast in the new "Thrifty Three" package.

SEWING TRIO

9142—Smart jumper with its own blouse or other blouses and sweaters, without for date dress. Misses' sizes 12 to 20; 30 to 42. Size 16 jumper takes 2½ yards 54-inch fabric; blouse 2 yards 35-inch fabric.

4694—Four gay aprons, sew them all, they're thrifty. Use scraps for contrast. Sizes small (14-16), medium (18-20), large (40-42). Small size with bib, in one fabric, takes 1½ yards 35-inch.

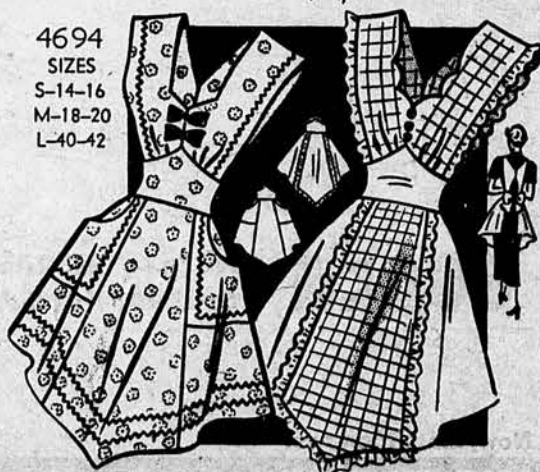
9104—Diagonally-tucked bodice, graceful gores skirt for slimming effect. For shorter, fuller figure. Half sizes 14½ to 24½. Size 16 takes 4½ yards 39-inch fabric.



9104 SIZES 14½-24½



9142
SIZES
12-20
30-42



4694
SIZES
S-14-16
M-18-20
L-40-42

Patterns 30 cents each. Address Fashion Editor, Kansas Farmer, Topeka.

THE POET'S CORNER

An Autumn Path

I know a path that leads away,
Beneath the arches of a wood,
Where dim the lights and shadows play.

Where idle winds the hours beguile,
With music soft and sweet and low,
As in some old cathedral aisle.

The leaves upon each bush and tree,
Are painted rarest colors there,
By autumn's magic artistry.

Then it leads across a glade,
Bordered by a winding brook,
Where slender, snip the waters wade.

Then by a field of ripened corn,
Where morning-glories climb the stalks,
And blossom in the early morn.

Along an old gray wall of stone,
With berry brambles by its side,
And with the wild vines overgrown.

I take this path, I like it best,
Because it leads to peace and rest;
Away from strife, away from fraud,
There's less of men and more of God.
—By George D. Thompson.

Bargain Hunters

They throng the streets on Dollar
Day,
These restless, avid shoppers,
As eagerly they bargain hunt,
Dispose of dimes and coppers;
They jostle elbows in the crowd
Around the nylon counter,
Each grabs his three pairs limit
Then prepares for fresh encounter.

I vow I'll never go again,
All sorts of things I mutter,
My cash is spent, my arms are full
Of bargains? . . . just more clutter.
—By Ida M. Yoder.

Seasons

Corn blades rustle in the breeze,
Leaves come swirling down,
A school bell rings out, clear and
loud,
Summer slightly frowns;
Soon, she will be a memory,
With glories to recall,
She takes a bow, and steps aside,
That we may welcome fall.

—Mrs. George Wiggins

November

November is a girl in gray
A quiet Pilgrim maid,
In her late autumnal garb
Not frolicsome, but staid.

Tho well concealed, her warm heart beats
Embracing all who roam,
For always on Thanksgiving Day
She beckons loved ones home.

—By Camilla Walch Wilson.

Middle Age Contentment

I thought that I would never grow
Beyond the years of vim and go.
I thought my hair would always hold
Its sunny hues and waves of gold,
But I have slowed and find it's fun
To be content and not to run.

—Ruth King Duerksen

Build With Youth

That's the title of a new leaflet which describes the program of the Kansas 4-H Foundation, according to J. Harold Johnson, State 4-H Club Leader. It's available for you now. If you would like a copy, please write Farm Service Editor, Kansas Farmer, Topeka, Kan. No charge.

THE READER WANTS TO KNOW

We enjoy your articles about birds, also questions and answers. There are many beautiful and interesting species in our county. We have good field glasses and several good bird books. As a rule we have little difficulty identifying the birds and thus studying their life and habits from the books as well as in nature. But one came the other evening which puzzles us.

We were sitting on the front porch sometime before sundown and were watching field sparrows, English sparrows and orioles with field glasses as they searched for insects in the vegetation. Suddenly from down the road came a strange bird. It flew low along the ground, occasionally lighting and taking 2 or 3 hops, then flying low again. It came near the porch, resting a-while and looking us over calmly with jet-black eyes. We looked it over carefully again and again, but could not identify it.

Plumage was dark brown all over with the exception of a few light feathers on the primaries of its wings, showing only when wings were spread. It was about the size of a starling and had a short square tail. Its wings were long, bill jet-black, long and narrow. After some time it flew and hopped to a tree and went up and down the trunk

like a woodpecker. Then it went to another tree, went up the trunk and hid among the leaves, evidently for the night. The next morning it was gone. Such a friendly little bird! We would like very much to know what kind it was.—Mr. and Mrs. M. S. Cox.

The bird which you describe could be a young starling. The short flights ending in short hops could be a young bird making an imperfect landing. This bird soon learns to walk or run, but the young sometimes make short hops. The fact that he climbed a tree like a woodpecker also would indicate a lack of flying ability.

These birds nest in holes in trees and have good climbing action but one would hardly compare it to that of a woodpecker. Your letter indicates you are familiar with most birds and would recognize any of the woodpeckers which appear in your area, thus eliminating that possibility, unless you happen to have a mutant.

I am very fond of all birds and I see many kinds here. They eat and drink in our yard. But I do not see any mocking birds. They were very common where I was born and reared. Why is this?—Mrs. H. R. Provenc.

Mocking birds like an open area with a few trees and enough shrubbery around to provide shelter and nesting sites. They also enjoy wild fruits along with beetles, bugs, spiders and larvae. Try driving out to some farm or ranch home in your area or along a shelter-belt and listen for your mockingbird.

If you have a few mulberry trees in your neighborhood, you will find they will attract many birds during summer. Multiflora rose, wild grapes, persimmons or bittersweet and red cedar attract birds as long as the food remains. You and your neighbors can create the right habitat for mocking birds and they will take advantage of your thoughtfulness.

Have a Question About Birds?

If you have a question about birds address letter to Florence McKinney, home editor, Kansas Farmer, Topeka, Kan. Want to know about identification of a particular bird, how to attract birds, let us know. Questions and answers will appear in later issues of Kansas Farmer.

News to You?

Bartlett pears are juicy, tender and flavorful and ripen best in a cool basement. If ripened at too high a temperature in a warm kitchen or on a sunny window sill, flavor is not so good. They are a good variety for home baking, for spicy pear butter or pear preserves.

Here is a genuine leather shoulder strap bag which comes with the lacing in a make-it-yourself kit. Easy to do and attractive in variety of colors.



Write to Bishop's Press, Weaverville, North Carolina, for cost and added information.

Baked frozen pies, such as cherry and other fruit pies, which are to be served warm, can be thawed and heated at the same time. Remove wrapping from the pie and place in oven at 400°. It will thaw and heat in 30 to 40 minutes, depending on thickness.

Ever forget to take the meat out of the food freezer? It may be roasted while still frozen, but with an allowance of one-and-a-half times the roasting time for fresh meat. For even roasting, however, you'll get better results if the meat has been partially thawed.

Mattress pads should be removed from the dryer or clothesline before they are completely dry. Block them back to shape and size by stretching or pressing. They may appear to have shrunk, but will return to normal measurements after use on the bed.

For November

"Thanksgiving Party Games," 3c
"Thankful Hearts," a play requiring 8 characters and a chorus, 5c
"Thanksgiving Table Frills," 3c
These leaflets will be helpful when planning entertainment for church, school, or club. They offer suggestions for decorations, entertainment and refreshments. Send your orders to Entertainment Editor, *Kansas Farmer*, Topeka.

Butter warmer, made in Sweden is made of wood and stainless steel. For



roasting ears, pancakes, waffles. Major Products Co., 17342 Evergreen Rd., Detroit 19, Michigan.

For Club Women

The most necessary rules of order used in women's club meetings are given in our leaflet, "Rules of Order." This may be used as a drill to acquaint all members with the rules. Included in the leaflet are election of officers, constitution, by-laws, how to make a motion, amendments, and other helpful information. Send 3c for your copy to Home Editor, *Kansas Farmer*, Topeka, Kan.

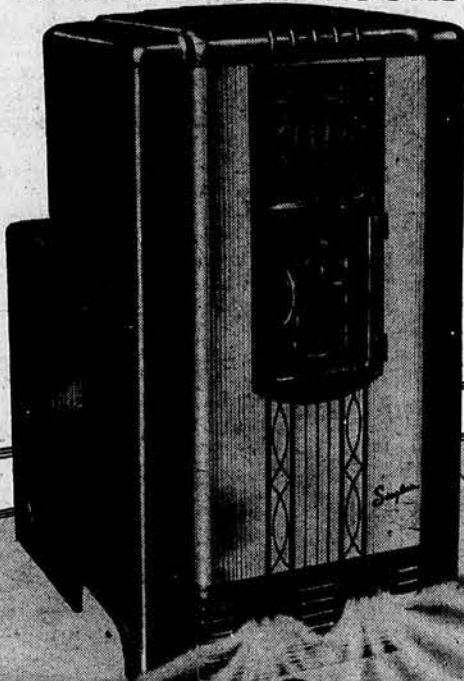
FURNACE HEAT

No costly pipes or registers to install or clean!

Siegler uses Top-o'-Flame heat that's

4 TIMES HOTTER

than Side-o'-Flame heat
OVER YOUR FLOORS



Tropical Floor Heat

GETS TO THE BOTTOM OF THE COLD FLOOR PROBLEM

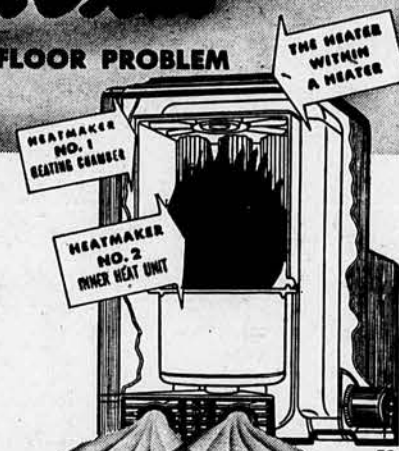
Siegler

PATENTED AUTOMATIC
OIL OR GAS HEATERS



TWO-IN-ONE-HEATMAKER saves up to 50% in fuel!
SIEGLERMATIC DRAFT ends chimney troubles!
CAST IRON CONSTRUCTION for a lifetime of service!
PORCELAIN ENAMEL for a lifetime of beauty!

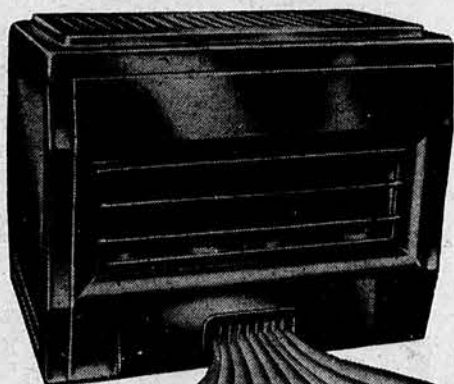
Prove it—make the 'MATCH-TEST' at your Siegler Dealer



53-OGF-22

MONEY BACK GUARANTEE

ESPECIALLY DESIGNED FOR PERFECT PERFORMANCE ON LP GASES



New, Low Boy GAS HEATER

HEATS LIKE MAGIC

even with the gas turned OFF

- Three-In-One Heatmaker lowers gas bills • 6-way Directional Tropical Floor Heat • Cast Iron Construction for complete safety
- Super-quiet Ribbon Type Burner • Silent, Free Floating Motor Mount • Automatic Controls—Set it, Forget it

AGA APPROVED

SEE YOUR NEAREST DEALER OR WRITE SIEGLER CENTRALIA, ILL.

BREAK UP local CONGESTION of KIDS' CHEST COLDS

Relieve Coughs—Aching Muscles
Sore Throat

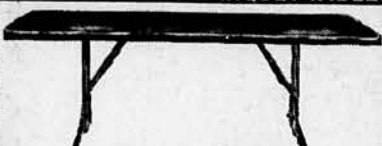
Child's Mild Musterole—made especially for kiddies—is recommended by many baby doctors. Musterole speedily relieves coughs, sore throat, chest colds. It instantly starts right in to break up congestion in nose, throat and upper bronchial tubes.

Musterole creates highly medicated, protective warmth on chest, throat and back bringing long-lasting relief!

There's also Regular and Extra Strong Musterole for adults.

Child's Mild
MUSTEROLE

Monroe FOLDING BANQUET TABLES



If you are on the Kitchen Committee of some Church, Lodge, Club, School, etc., in your town you will be interested in this modern Folding Banquet Table. Write for Catalog and special discounts to institutions and organizations.

THE MONROE COMPANY 201 CHURCH ST. COLFAX, IOWA

NATURE'S OWN PACKING CASE

Make it Strong

Nature's packing case for an egg is the egg shell. If the egg shell breaks easily, it's because laying hens need more calcium carbonate.

Give hens Pilot Brand Oyster Shell, the purest source of calcium carbonate. It helps them lay more eggs, all with hard shells, a real protector of profits against loss by breakage.



FOR POULTRY

In the bag with the big blue Pilot Wheel
At most good feed dealers

OYSTER SHELL PRODUCTS CORP.,
New Rochelle, N. Y. St. Louis, Mo.

Here's Our Third-Prize Winner

MARY ROBE, Coffey county, wins third prize in the *Kansas Farmer* story-writing library-book contest which ended recently. For her fine story on "Why I Like to Live on a Farm," Mary received a cash award of \$10 for herself and her school will soon receive \$50 worth of books for the library. She and the school officials chose the books from an approved list prepared by librarians to supplement books already on the shelves.

Mary is 12 years old and lives on a farm, 9½ miles northwest of Burlington. She and her sister, Ruth, are members of the Otter Creek Boosters 4-H Club and are carrying projects in sewing and cooking. She attends a 1-room rural school where she is one of 12 children.

For pets she has a heifer calf named Betsy and some Silver Hamburg chickens. For hobbies, she collects stamps and paper napkins. She loves to read and gets books from the public library in town. Mary's prize-winning story follows:

Why I Like to Live on a Farm

Living on a farm in a free country is a great experience. On a farm, we have space to work and play and plenty of fresh air to breathe. It seems as tho, when you live on a farm there is always something to do, whether it be work or play.

My mother and dad, my sister and I live on our 120-acre farm. My sister, Ruth, goes to town high school. On our farm we raise corn, wheat, oats, soybeans and kafir.

On our farm we have 40 head of cattle and a pony. I have a little Shorthorn heifer calf of my own. Her name is

Betsy. My pet is a collie puppy, whose name is Jack. I have fun romping with him.

Each spring when we plant garden, I plant one of my own. I raise both flowers and vegetables. I like to go out in the garden to hoe and weed. I raise flowers, some of which are in bloom all



MARY ROBE, BURLINGTON, wins 3rd prize in the *Kansas Farmer* Contest for 7th and 8th graders. She has received a \$10 cash award and her school \$50 worth of books for the library.

Health Is the Richest Blessing

By CHARLES H. LERRIGO, M. D.

COUNT YOUR possessions in lands, buildings, stock, machinery, grain, even stocks and bonds, but remember that human life exceeds in value all such goods by an incalculable margin. A great philosopher once said: "Health and good estate of body are above all gold, and a strong body above infinite wealth." You do not really need to be crippled by rheumatism or handicapped by a leaky heart to realize that the richest blessing you have is health.

Are you one who shares the thought that health is harder to keep than in the days of your grandparents? Statistics are against you. The average American of those days could expect to live 45 years. The American baby born at this Thanksgiving season of 1953 has a life expectancy steadily approaching 70 years. We live in a land that is favorable for health, free from insect pests, free from extreme atmospheric variations, a land in which "life is life," and keeping well is dependent largely upon sane observance of methods of living.

Let Us Be Thankful

Today we are holding in check terrible diseases the very name of which brought terror to the hearts of our ancestors. Let us be thankful that we need no longer dread diphtheria; that typhoid is almost a thing of the past; that yellow fever is only a name; that surgery is made painless thru anesthetics and safe by antibiotics; that crippled children are being made over by modern surgical methods, and that proportionately twice as many American children now live to grow up as in the beginning of the present century.

Tuberculosis, the scourge of the ages, is now a vanishing disease. We have special cause for thankfulness in that there are only 3 or 4 places in the whole world in which there is less of this disease or greater promise of cure. Organized work against tuberculosis, promoted for 46 years by the Christmas Seal, is entitled to a goodly share of the credit for reducing to a minimum this terror.

In the days of our grandfathers people believed a person with consumption was doomed to die. Most people thought consumption (it was not then called tuberculosis) ran in families and, once a family was marked that way, nothing could be done. Deaths from consumption were so common nearly half of all deaths below age 40 were charged to it.

Tuberculosis Seal

The Christmas Seal of the National Tuberculosis Association, for 1953, presents the joyful face of a child singing a Christmas carol, thus personifying the spirit of the season. The attractive Christmas Seal poster features a child wearing red mittens and an old-fashioned green stocking cap and muffler and holding an open book of carols. The artist says the things he wanted most to get into the 1953 Christmas Seal were "faith, purity, love and all the things that should be foremost in our thoughts, particularly during the Christmas season"—the things which a small child symbolizes.

We now know that tuberculosis is curable and that people do get well

summer and fall. I think nothing is so pretty as a fresh bouquet of flowers on the dining-room table.

I go to a country school where there are only 12 pupils and am in the eighth grade. I think nothing can beat a country school for science and other subjects.

One of my farm activities is my 4-H Club work. Ours is called the Otter Creek Boosters. In this club there are 38 members, most of whom live on farms like myself. In 4-H we have almost any project that might interest farm people, including poultry, dairy, beef, cooking and sewing. This year my sister and I are going to paint our house. Last year we won prizes for cooking and sewing at the county fair at Burlington.

Has 4-H Projects

I am carrying cooking and sewing projects. I learn better ways of doing things. At our meetings we play games and square dance. When we get started playing or dancing, sometimes we don't get home until late. It makes no difference how late we get in, we have to get up early the next morning to do our chores.

Last year our club entered a cowboy dance at the county 4-H Club day and won first prize. We were all dressed in costume and Peggy Truelove called for us. The dancers went to the regional meet at Emporia and won a red ribbon. Later the dance was put on at one of the night programs at the Coffey county fair and in the fall, gave it again at a big social at our school, Fairfield. This raised money for the USO.

Living on a farm is a wonderful experience. I love every minute of it. Sometimes the work is hard, but we always have some kind of fun to make up for it.—Mary Robe.

Thank You

Thank you so much for these leaflets as they are all very useful and we enjoy them very much. Your magazine is very interesting and helpful.—Mrs. W. L. Somers, Rt. 1, Sherman Co.

from the disease. As you give thanks at this holiday season, remember you are not only thankful because fewer people die, but still more because there are fewer broken homes, fewer families living year after year with the dread of the Great White Plague casting its somber shadow over all their goings and comings, fewer hopeless invalids to drag thru the terrors of the night only to face another day of gloom. Spare a good wish for physicians, for health officers, for visiting nurses, for those who work in their laboratories studying disease prevention. Their work gives you added years of real life.

Let us give thanks!

MOTHER OF THANKSGIVING

Mother of Thanksgiving Day in the United States was a mother—Mrs. Sarah Josepha Hale, mother of 5 and an editor of a woman's magazine for 40 years! Thru her untiring efforts, the presidential proclamation and the governors' and mayors' proclamations became an established American institution.

She wrote to presidents, governors, anyone who would help start "Thanksgiving Day." She wrote many articles in her magazine, "Ladies' Magazine," published in Boston. In 1828 she became editor. It was the first periodical published in the U. S. for women. In 1837 the magazine was moved to Philadelphia and the title changed to "Ladies' Book" and later, to "Godey's Lady Book."

On November 26, 1863, President Abraham Lincoln proclaimed the first national Thanksgiving Day, and Mrs. Hale was alive to see her idea triumph. A widow with 5 children, she continued her editor's duties for many years, as literary department editor. She lived from 1788 to 1879.

What We Know About Fertilizers And How They Increase Production

By M. H. McVICKAR, Chief Agronomist, The National Fertilizer Association

Q. What's the best method of fertilizing my small-grain crop?

A. Here's how the National Joint Committee on Fertilizer Application answers this question: "The fertilizer and the seed should be drilled simultaneously with the grain drill, which places the fertilizer close to and in partial contact with the seed. This method has been found superior to separate application, whether broadcast or drilled. . . . For fall-planted grain in the warmer areas, all of the phosphate and potash should be applied with the grain drill attachment at time of seeding, but at least a part of the nitrogen should be withheld for top-dressing in the spring."

Q. How many pounds of plant food are used up by crops of small grains?

A. On the average, a 40-bushel wheat crop removes in the grain alone about 47 pounds nitrogen, 21 pounds phosphoric acid and 12 pounds of potash. The straw of such a crop contains about 20 pounds of nitrogen, 6 pounds of phosphoric acid and 55 pounds of potash. Since wheat is unable to recover from the soil all of the plant food added as fertilizer, a 40-bushel wheat crop consumes the equivalent plant food in 600 pounds of a 10-10-10 fertilizer. Just about the same amount of plant food is used by a 60-bushel oat crop, or a 50-bushel barley crop.

Q. What state uses the most commercial fertilizer?

A. North Carolina uses about 2 million tons of commercial fertilizer annually. This is one tenth of all the fertilizer used in the United States. Georgia is second-largest user and Florida is third-largest user of fertilizer.

Q. Is there any truth in the statement that people eating food crops fertilized with commercial fertilizer have a higher death rate due to cancer and heart disease than do people eating foods grown with manure or compost?

A. Records of the U. S. Public Health Service show the death rate due to heart-disease and cancer in North Carolina, the number 1 user of commercial fertilizer, is lowest of any state in the Union. Likewise, the other southeast-

ern states, all heavy users of fertilizer, have a much lower-than-average death rate for these diseases.

Q. What's the difference between normal superphosphate and concentrated superphosphate?

A. Normal superphosphate contains 18 to 20 per cent available phosphoric acid, while concentrated superphosphate contains 40 to 50 per cent available phosphoric acid. Both are made by treating phosphate rock with sulfuric acid. Normal superphosphate, in addition to the phosphoric acid, carries about 20 pounds of calcium and 12 pounds of sulfur in the form of gypsum. Concentrated superphosphate is like normal superphosphate but since the gypsum is removed, it has a higher percentage of available phosphoric acid.

Q. Can cornstalks or straw be converted into valuable organic matter?

A. The cornstalks from a 100-bushel corn crop plus 120 pounds of nitrogen (the amount of nitrogen in 600 pounds of ammonium sulfate or 400 pounds of ammonium nitrate) can add more organic matter to the soil than a 4-ton sweet clover crop. However, if the nitrogen is omitted, bacteria slowly break down the carbonaceous material, such as cornstalks, with most of the carbon being lost to the air as carbon dioxide. The organic matter coming from sweet clover is more ideally distributed throughout the soil than that coming from cornstalks or straw because of the deeper root system associated with the legume.

Q. How much nitrogen is returned by a good legume crop?

A. A 4-ton sweet clover crop, turned under, returns to the soil about 180 pounds of nitrogen. A 2-ton red clover crop, plowed down, returns about half this amount. If the hay is removed there will be little or no nitrogen actually added to the soil. Then too, 2 tons of hay carries off about 20 pounds of phosphoric acid and 70 pounds of potash—the plant food contained in 100 pounds of normal superphosphate plus that in 110 pounds of muriate of potash.

Top Dairy Student

Top dairy manufacturing college student in 8 states is a Kansan, Richard E. Brown, of Salina, of Kansas State College. He wins a trip to Boston, for his outstanding achievements. His parents are Mr. and Mrs. Ralph Brown, Salina.

CHAMPION SHROPSHIRE EWE



CHAMPION SHROPSHIRE ewe at Kansas State Fair, Hutchinson, was shown by H. E. Heiser, Tampa.



Your Ford won't feel the winter—

... if you use parts that are made right for Fords

When you get your Ford ready for winter . . . and find that replacements will add to its zip . . . insist on Genuine Ford Parts like the three at the left. Here's why they make a big difference:



Ford batteries are tested to start at 20 below zero. They're also shake-tested and impact-tested for durability and cycled from full charge to full discharge hundreds of times for long life. This testing by Ford engineers before approval for manufacture is your assurance that a Ford battery is designed to keep your Ford car or truck ready to go at all times!



Ford oil filter cartridges are Track Tested in Fords for thousands of miles. Both full-flow and by-pass filters are designed to remove dust, carbon particles, and other oil contaminants dependably and efficiently from your oil without removing useful oil additives!



Ford spark plugs are manufactured to exact Ford specifications. They're designed and balanced to your Ford's ignition system to give your engine smooth performance and high gasoline mileage. And, like all Genuine Ford Parts, they're made right to fit right in your Ford!



Keep your Ford all Ford

Available at all Ford Dealers and the selected independent garages where you see this Genuine Ford Parts sign.

Stop Taking Harsh Drugs for Constipation

**Avoid Intestinal Upset!
Get Relief This Gentle
Vegetable Laxative Way!**

For constipation, never take harsh drugs. They cause brutal cramps and griping, disrupt normal bowel action, make repeated doses seem needed.

Get sure but gentle relief when you are temporarily constipated. Take Dr. Caldwell's Senna Laxative contained in Syrup Pepsin. No salts, no harsh drugs. Dr. Caldwell's contains an extract of Senna, one of the finest natural vegetable laxatives known to medicine.

Gentle, effective relief

Dr. Caldwell's Senna Laxative tastes good, gives gentle, comfortable, satisfying relief for every member of the family. Helps you get "on schedule" without repeated doses. Even relieves stomach sourness that constipation often brings.

Try the new
30¢
size

Money back
if not satisfied

Mail bottle to Box 280, N. Y. 18, N. Y.

**DR. CALDWELL'S
SENNALAXATIVE**

Contained in pleasant-tasting Syrup Pepsin

DEAF MAN PERFECTS MIDGET HEARING AID

Mr. H. A. Lyons of Peoria, Illinois, who himself has been hard of hearing for nearly twenty years, has perfected a remarkably low-cost hearing aid.

With this small aid, voices, the radio and even the ticking of the clock sound natural. You can have all of these wonderful conveniences plus many others for a fraction of the usual cost.

Write today to Mr. H. A. Lyons, Dept. 22-W, 401 South Washington St., Peoria, Illinois. He will send you full information in a plain wrapper. No salesman will call.

ACME
COWBOY
BOOTS



Prices on most styles:

small childrens — \$3.95 to 6.95
boys and girls — \$6.95 to 10.95
ladies — \$12.95 to 17.95
men's — \$13.95 to 19.95

WORLD'S LARGEST MAKERS
OF COWBOY BOOTS

DON GOES TO LEBANON AND SYRIA

Describes grocery store, homes, marriage customs, sees gypsy dance, lives in tent

Remember, Kansas Farmer promised to bring you letters from 2 of our Kansas 4-H'ers who are spending some time on farms overseas this year. Here is the eighth letter from Don Weixelman, of Louisville, in Pottawatomie county, who has gone to Lebanon and Syria.

DEAR MR. GILKESON: The other night I went shopping for groceries with my host, Mrs. Labbakh. I found it quite different from the states. Here stores are very small and dark inside to keep flies out. Most stores sell only a small variety of food. . . .

First big noticeable contrast was type of goods. All goods were fresh, very little canned. Another big difference was little or no refrigeration. Most perishable products were bought in the morning and sold before night. Fresh fruits and vegetables are displayed on the sidewalk in front of the store because of lack of space inside. Eggs are hung from the ceiling in a wire basket. Bananas are hung in the doorway.

The storekeeper buys nonperishable products such as sugar, salt and flour in large lots. The customer buys them by the gram or kilo. They are measured on a balancing scale and wrapped in paper.

Meat market sells only meat. The butcher buys live sheep early in the morning, kills and dresses them. He hangs his fresh meat up in the doorway. When a customer wants a piece of meat he tells the butcher by pointing on the carcass. The butcher cuts it out, sells it by the gram or kilo. It is best to buy meat early in the morning, because by night the meat is dirty from dust of the street.

Ride Camel or Donkey

There are many different kinds of transportation in Lebanon, ranging from camel and donkey to the modern American automobile. The camel and donkey are used very little in Lebanon in comparison with trucks and cars. There are as many cars in Beirut as there are in any American city its size. About four fifths of the cars there are American-made. The other one fifth come from Europe. Lebanon also has some very good highways for these cars.

If you don't have your own car here and want to travel, best way is by taxi. Taxi fare is very cheap. For me to go from Hamana to Beirut it cost 1½ Lebanese pounds (40 cents). This is about the same as bus fare in the states. Taxis are very plentiful here. You don't look for a taxi here, they look for you! All towns in Lebanon have electricity. Larger cities have public water



DON WEIXELMAN
Louisville, Pottawatomie County

works but small towns do not. Small towns get their water from public or private wells or from a mountain spring, as much as ¼ mile from the source of water to the home.

There also is a great variety of homes in Lebanon. They range from the Bedouin tent to the modern home (comparable to an American home). Very few people use the tent but not many can afford the modern home, either. Most people live in one-room adobe apartments. Some homes are made of limestone. There is very little or no wood used in construction because of its cost.

People here marry at different ages than we do. Here the man is 35 to 45 years old when he gets married, while the woman is 18 to 28 years old. After the woman passes 28 she is considered an old maid. Their argument for these ages is that it takes a man that long to get enough money to get married, and when he does he wants a young wife.

Some of the questions asked me most frequently are: Who is your favorite movie star? (Most American movies come here.) How much money does a laboring man earn in the states? How can I go to America? Will you help me? Will you pay my way? How do you like Lebanon? Are you happy here? Are there communists in U. S. Government? These last 2 are because of the current issues on segregation and Senator McCarthy. Some of the questions they ask can be difficult to answer, especially if they want details. However, I think I am finding better answers to give every day.

—Don Weixelman.

No. 5 in a series of articles on how to grow flowers

Vines Have Many Uses on Farmstead

By FRANK PAYNE

EVERY FLOWER has a special use and place around your home. But I will wager there are many times when you wonder just where to sow some kinds of seed or plant roots a flower-loving friend gave you. You, of course, want to give them a special place where they can be the most showy flowers and let your friend see how nicely they have done for you.

Now, if that should happen to be vine seed or roots, I can tell you many places where they will fit in just fine. There are 2 classes of vines. Some are slow starting and are the perennial or woody type. It takes time to get them started to grow, but they do not require any attention after getting started. The other types are the annuals, the quick starting, vigorous growers that must be planted each year from seeds or bulbs. They are as easily grown as

zinnia or marigolds. Here is a list of 5 I will write about. They are morning-glories, moon vines, Maderia, Cypress and gourds.

I am fond of morning-glories. Not the wild kind you have to hoe out of the garden. But the ones with large, beautiful blue and vari-colored blooms that grow 30 to 40 feet in a cool, wet fall and are a perfect mass of bloom early in the morning and all day if it should be cloudy.

I had an experience that proved their value. We live close to the city limits. All around our farm are suburban developments. Many city folks come out and buy a small tract of ground but build only a small, temporary home at first, then in a few years they build better houses.

One day last fall I was walking to
(Continued on Page 31)

Look to



**HONEGGER
Leghorns**

FOR
**HIGHER
PROFITS**

In winning the 1952-53 California Net Earnings Test, Honegger Leghorns made a net profit over feed costs of \$7.90 per hen! High production results in good net earnings and winnings in national contests . . . have proved Honegger Leghorns the preferred hen in egg profit production.

As few as 500 Honegger Leghorns can produce as much in net profits for you as 80 acres of land under usual rotation. Start cultivating these "hidden acres" on your farm right now without buying another acre!

Investigate for yourself! Contact your nearby Honegger Associate Hatchery. They can supply you and assist you in a productive poultry program.

**ENGBRECHT'S ELECTRIC
HATCHERY**
STERLING, KANSAS
OR WRITE DIRECT TO:

HONEGGER BREEDER HATCHERY
Forrest, Illinois

Personal To Women With Naggig Backache

Naggig backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

Buy U. S. Savings Bonds

**KEEP HIM
SINGING**

Help Fight TB



**CHRISTMAS
SEALS**

the back part of our peach orchard where there is a housing project on an adjoining farm. Someone had built a small house and covered it with plain, black tar paper. Somehow I never could think there is any beauty in a house built that way. But for this home the owner had sown a few seeds of Heavenly Blue morning-glories to run up strings in front of the house. There was a mass of beautiful blue flowers. I claim vines have plenty of uses. We have Heavenly Blue morning-glories on one side of our front porch and there is a lot of seed that dries and stays on all winter. When the snow is deep enough to cover grass and weed seeds, a pair of redbirds (Cardinals), come and get their breakfast. You can cover ugly buildings, old

Thank You

Dear Editor: I'm a Kansas native daughter, born and reared 8 miles south of Walnut, Crawford county. We have never been without this wonderful *Kansas Farmer*. When I was a kid I remember this paper was called *Mail & Breeze*. Since I married Mr. Haynes in 1939, have all of Capper's publications.—Mrs. William C. Haynes, Dickinson county.

ences, fuel oil tanks or any unsightly place with no special trouble other than planting seed or vine plants, then let old Mother Nature do the rest. Moon vines come in a pure white and will give you lovely bloom in the evening instead of morning. The foliage is larger than morning-glories. They can be started in pots to get a good early start.

Foliage Sure to Please

If you like special foliage for your vines, Maderia bulbs planted after frost danger is past will give you waxy green leaves that are sure to please. If you like dainty, lacy foliage with pretty red or other color small blooms, sow some Cypress seeds and string up wire or stout twine to get them started running up a porch trellis. Always put up a trellis so there will be air space between trellis and building. This is to protect the paint or buildings so vines will not stain or cause wood sidings to rot. You can tie the vine in a few places to hold safely on the trellis in case of storms or bad winds.

In planting gourds, be sure to sow early in pots in the house, say late in March, as they need a long season to make a good growth. Do not plant outside until all danger of frost is past.

Here is a list of hardy or slower-growing vines: Lathyrus, perennial sweet peas, Clematis, Silver Lace vines, honeysuckles, Trumpet vines, bitter-sweet and grapes. It takes longer to get these plants started, but once they are established you can let them stay in the same spot many years with no further care.

Perennial sweet peas start from seeds or plants. They come in lavender, pink, white or red shades which make nice

cut flowers. Seed may be fall-sown. We have several different colored Clematis vines started and growing at our back porches. They stand partial-shade. The vines are not so robust in their growth but the blooms certainly are showy and colorful. Here are the names of varieties in the principal colors. You can get the started plants from your favorite nurseryman: Jackman, purple blue flowers, Comtesse de Bouchard, rose, Ramona, lavender blue, Crimson Star, brilliant red. Sweet Autumn, fall-blooming dainty white flowers.

Plenty of Bloom

Silver lace vines or honeysuckle also come from your nurseryman and are two different vines that give you plenty of blooms over a long season.

One of the oldest vines I can remember is one we had at home when I was a small boy. It was called "Trumpet creeper vine" and had clusters of orange trumpet-like flowers that bloomed all summer. Seems like we were always digging up sprouts to give someone a start of this vine. I saw a good use for this vine when I was down in Edmond, Okla., many years ago visiting. They have too much hot wind from the south and west that hurt the tender flowers in their garden. This man happened to have Dahlias in his garden, so you can see why he wanted to protect the tender blooms. He solved that problem easily by having trumpet vines growing from 3 sides of the garden running on a wire fence about 6 feet high. The bright green foliage of the vine stopped the hot winds and was beautiful.

Here is one for the birds. You may notice I am always speaking a good word for the birds and looking out for them in the garden. I also like to read the bird articles in this farm paper, and look forward to getting Mr. Carson's bird stories. They are very interesting and instructive.

Bittersweet Is Popular

Here is the vine that helps birds so much—American Bittersweet. You find them growing along the roadside or along brooks or creeks in Eastern Kansas and all over the state of Missouri. The small plants can be dug up in late fall or early spring and transplanted to your home. Always put out 4 to 6 so you will have some male and female plants; the female produce the berries. Then you are sure to have plenty of berries to make winter bouquets. Let plenty stay on the plant, then next winter when the snow is deep the birds can have a feast from the seeds. It takes the 2-year wood growth to produce the berries.

My last vine is not much for bloom but it certainly serves a good purpose to shade a front porch. I have been writing about the birds getting hungry in the wintertime. In summer I get hungry for grapes. We have one of the old-fashioned varieties called Delaware. The fruit is small but sweet as honey and quite juicy.

I have proved to you that vines have many uses around the farmstead. Find that place and make your own choice of the ones you like best. Here's wishing you the best of luck!

I WONDER HOW THAT STARTED

"A Rolling Stone Gathers No Moss"



This ancient saying goes at least as far back as 1573, when Tusser's "Five Hundred Pointes of Good Husbandrie" appeared, says Charles Earle Funk, Chester, Vt., prominent American author. One common belief is that it means a person who changes from one thing to another too often will not gain much or benefit much from such erratic behavior or beliefs.

Mrs. Lizzie Crane, Larned, asked us about this familiar old adage. What's yours? Just send it to "How That Started?" *Kansas Farmer*, Topeka.

Pass your pump problems to

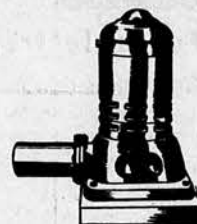
FAIRBANKS-MORSE

Fairbanks-Morse has an irrigation pump to best suit your needs... and your local Fairbanks-Morse dealer is well qualified to recommend one for you. Choose one of these pumps—be sure of minimum maintenance over the years—dependable service when you need it.

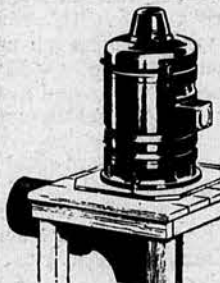


FAIRBANKS-MORSE DEEP WELL TURBINE PUMPS

... the Pomona Line. They're available in both water and oil-lubricated styles... you adjust capacities easily above the surface... all steel parts subject to corrosion are protected by "Fairmortecting"—a new rust repellent.



FAIRBANKS-MORSE PROPELLER PUMPS

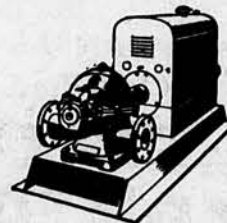


... for low-lift, big acreage irrigation. They'll deliver up to 216,000 gallons per minute! They're compact... simple—oil or water lubricated... completely self-priming... and have balanced load distribution—very efficient.

FAIRBANKS-MORSE

CENTRIFUGAL AND BUILTTOGETHER PUMPS

... for spray pipe irrigation. The Builttogether is a combined unit, pump and motor. Both pumps are designed for steady pressure... easy maintenance... you can get capacities up to 4500 gallons per minute and heads to 300 feet.



Your local Fairbanks-Morse dealer is also up-to-date on the latest irrigation methods... drop in and see him... or write Fairbanks, Morse & Co., Chicago 5, Illinois.



FAIRBANKS-MORSE

a name worth remembering when you want the best

PUMPS • SCALES • DIESEL LOCOMOTIVES AND ENGINES • ELECTRICAL MACHINERY • RAIL CARS • HOME WATER SERVICE EQUIPMENT • FARM MACHINERY • MAGNETOS

CAPPER PUBLICATIONS, INC. TOPEKA, KANSAS

First Mortgage 4% Bonds (5-years)

First Mortgage 5% Bonds (10-years)

Denominations \$100.00, \$500.00 and \$1,000.00

This announcement is neither an offer to sell, nor a solicitation of offers to buy, any of these securities.

THE OFFERING IS MADE ONLY BY THE PROSPECTUS.

Copies of which may be obtained by writing to

CAPPER PUBLICATIONS, INC. TOPEKA, KANSAS

WATCH YOUR PROFITS GROW



ROTO-RAIN

Portable Irrigation

ROTO-RAIN is right for you because it's engineered to your needs. Right from the start it means bigger and better crops . . . savings in water, time and labor.

Ames ABC-Coupled aluminum pipe is automatically locked and sealed by water pressure. No troublesome hooks or gadgets. 22° flexibility at joints to follow field contours.

For full details and free planning service, get in touch with your Ames dealer, or write nearest Ames plant.

**ROTO-RAIN • TOW-A-LINE
PERF-O-RAIN • GATED PIPE**

W.R. AMES CO.

Established 1910

150 Hooper St., San Francisco 7, Calif.
3905 East Broadway, Tampa 5, Fla.

**Use a KANSAS FARMER
Classified Ad
Only 10c a word**

COMFORT CUSTOM FIT TRACTOR HEATERS

COST LESS
.. yet actually fit your tractor **BETTER**

ONLY \$39.95
F.O.B. KAN. CITY, MO. Std. Model

Side Door Models Slightly Higher.
Crawler Models Priced Individually.
You may pay more—but no other tractor heater can give more warmth and protection. Better custom fitting to your tractor eliminates bagging, sagging, flaps and gaps. You get more heat around the tractor seat.

You'll like COMFORT Features Too!

- Windshield easily removable without tools
- Side windows are adjustable around driver
- Motor panels fold or remove entirely for heat control.
- Full accessory line for severe weather requirements. Available at low extra cost.

U.S. Pat. Nos. 2,462,884; 2,461,974
Canadian Pat. No. 471,256

Order From Your Dealer Today or Write
COMFORT EQUIPMENT CO.

2609 P. Walnut • Kansas City, Mo.
DISTRIBUTOR

THE FAETH COMPANY

1608-14 McGEE ST.
KANSAS CITY, MO.

Where Do the Birds Go?

(Continued from Page 20)

After checking these charts, Frederick C. Lincoln discovered the existence of 4 great flyways in 1935. His original study was based on records of recovery of migratory waterfowl but other recoveries indicate that other migratory birds follow their chosen routes. So now we can get a mental picture of thousands of migrating birds as they travel up and down, going or coming on the Atlantic, Mississippi, Central or Pacific flyways.

Bobwhite Is No Tourist

Some do not choose to migrate but are content to spend their entire lives within a radius of a few miles of where they were hatched. Our old friend the bobwhite is not a tourist but likes to do his whistling on familiar grounds. Some which nest in the higher mountains spend the winters in the lower valleys. Rosy finches and pine grosbeaks make use of this vertical migration. Some of the herons which nest in southern habitat, like to make a sight-seeing trip north before leaving for their winter homes. The Clark's nutcracker likes to nest in the lower levels of his mountain home, but moves to higher levels as summer advances. These are a few exceptions.

But now let us consider the flyways! The Atlantic flyway follows that coast line, down the Florida Peninsula, with short hops across the various islands and on into South America. This route is traveled by many birds which nest in Eastern Canada and the New England states but many ducks and geese which have nested on the great plains of Northern Canada, follow the Great Lakes, cross Pennsylvania and on down the Atlantic flyway. Some of these birds do not leave the United States, some spend the winter in Cuba and Puerto Rico, others prefer South America.

This Is Longest Flyway

The Mississippi flyway is the longest, for it extends from the Arctic coast of Alaska and the mouth of the Mackenzie river, down the Mississippi and its tributaries and on south into Patagonia. This is the most popular route for it offers abundant food and much of the way is free from mountains or even high hills. This route is famous for warblers, sparrows, thrushes, blackbirds, ducks and geese. Fortunate is the bird watcher who lives in a favored spot along the Mississippi, for he can see more species than can be found anywhere else in the world. St. Louis is one of these choice locations.

The Central flyway is the chosen route for many birds which nest in Alaska and the Mackenzie River area. These, together with many nesting in the region of Montana, the Dakotas and south from that area, choose to travel south thru the great plains and on into Mexico. Many of these migrants can be found along the East Coast of Texas. This route is favored by many species of ducks and shorebirds together with birds of the open plains.

The Pacific flyway gathers a wide assortment of birds which nest in Alaska and the various mountain regions south. The mouth of the Yukon is said to be the northern terminus while some travel south into Western Mexico.

While these routes appear rather definite, we find that birds are prone to wander. Birds which nest in Western Alaska may not use the Pacific flyway, but cross over into the Mississippi route, while birds nesting in Nova Scotia might cross both the Atlantic and Mississippi flyways and join birds which have traveled along the Central route and then into Central or South America.

World's Greatest Traveler

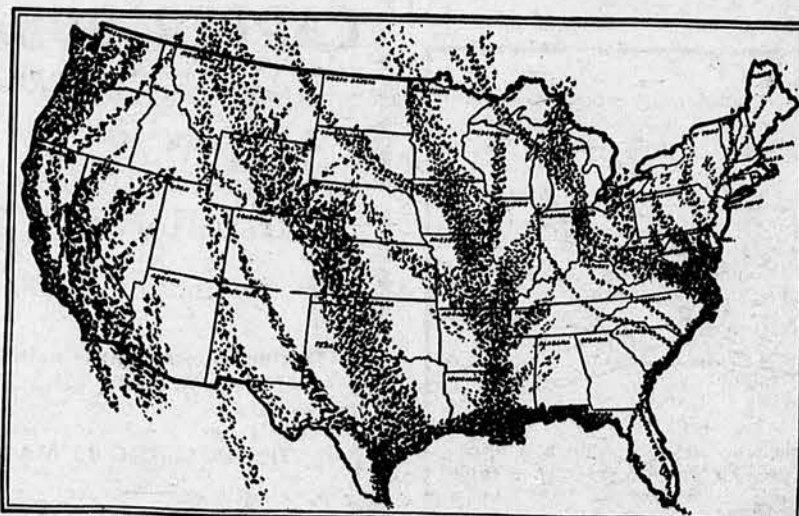
The Arctic tern is the world's greatest traveler and enjoys more hours of daylight than any other bird. Nesting as it does from the coast of Maine north to the upper parts of the Arctic Archipelago, it spends its nesting period in the land of the midnight sun. Leaving the nesting ground, it crosses the Atlantic Ocean, visits the coast of Europe and Africa, may recross to the eastern coast of South America or follow the African coast to the Antarctic where it spends the winter, but where it again has continuous sunlight. Their summer and winter homes are 11,000 miles apart at the extremes, but they fly circuitously and probably cover at least 25,000 miles in migration.

Another bird which has an interesting voyage is the golden plover which nests above the Arctic Circle and winters in Argentina and Patagonia. In spring he makes a leisurely trip thru South and Central America, across the Gulf of Mexico, thru United States and Canada to his nesting grounds. After family cares are no longer a burden, adults journey to Labrador, down to Nova Scotia, then 2,400 miles to the coast of South America where they are well on their way to wintering grounds. Some young birds return by way of the spring migration route, can be found feeding in our alfalfa fields where insects abound in early fall.

Suddenly You Hear the Honk

Unless you are a birder, migration might go unnoticed but suddenly you hear the honk of the wild goose, then you stop and admire the perfect formation, envy the freedom and confidence of this great bird, perhaps wonder where he spent the summer. You might even wonder just how he would taste if well browned in your own oven. Checking on this bird, we find that the Canada goose has different habits than many of his tribe. He is not bothered by cold weather, will stay as far north as open water and a supply of food will permit. Spring finds him following the advance of the 35° isotherm northward traveling with the spring. He can be looked for in Southern Kansas and Missouri around February 10, and in the northern part of these states about 10 days later. The blue goose, which nests

(Continued on Page 33)



FOUR MAJOR FLYWAYS shown here give an approximate view of the routes which migratory birds follow, but there are many exceptions. Beginning left, they are known as Pacific, Central, Mississippi and Atlantic flyways.

BETTER FEEDS COST LESS



with a

PAPEC MIXER

- Patented construction mixes faster... better.
- Screw elevator and revolving auger insure thorough mixing.
- Square top section eliminates dead spots in mixing chamber.
- Loads and sacks on same side.
- Gives more capacity in less space.
- Priced to save you money.

See your Papec dealer or send name on margin of ad for complete information. Papec Machine Company, 292 Chrysler Rd., Kansas City, Kansas.

PAPEC

SQUARE FEED MIXER

The MOST POWERFUL PISTONS

You Can Install!

add POWER PISTONS
Extra power for Farmall, John Deere, Allis Chalmers, Case, Oliver, Massey-Harris, Ford, Ferguson, Minneapolis-Moline tractors. For complete facts write Dept. G-21.
M & W GEAR CO., INC.
ANCHOR, ILLINOIS

CUT FENCING COSTS!
POST HOLE DIGGER
New, one man super-digger digs quick clean holes in any soil. Positive clutch control. Fits all tractor. Hardened steel gears. 48" augers in 6", 8", 12". Replaceable tool steel cutting blades. Hillside adjustment. Patent feed guard. Saves time. Makes money.
WRITE FOR FREE FOLDER TODAY!
WINPOWER
NEWTON, IOWA

Handles EAR CORN
Shelled Corn, Soy Beans, Wheat, Oats — and Other Small Grains

Portable All-Steel
MULKEY FARM ELEVATOR

• Portable • Balanced • Double Trough • Custom Built
12-MONTH ALL-PURPOSE USE
HEAVY DUTY FEATURES—14 gauge steel trough • 18 in. across trough • 5 in. straight sides • No. 1 double chains • 4 & 8 ft. sections for desired length • 8 ft. spring lift drag or gravity hopper (extra) Standard Equipment includes roller chain speed reduction, motor mount with belt release, "pull-in" power take-off, shelled corn screen, safety clutch. Ready To Operate Except For Power.
Write today for FREE literature and prices.
SAM MULKEY COMPANY
1621-N 1st Locust
Kansas City 8, Mo.

ound the northern part of Hudson Bay, stays on his wintering grounds in northern Louisiana until latter part of March, then makes a quick trip to Chesapeake Bay where he rests until about May 1, then moves on to nest. Robins and gray-cheeked thrushes show another contrast of birds which are closely related. The robin travels slowly with the advance of spring and often given credit for being the "first bird of spring." The gray-cheeked thrush reaches Southern Louisiana about April 25 and one month later he is looking for a nesting site in northern Alaska. He covers the 4,000 miles at an average speed of 130 miles a day.

Cross the Gulf Nonstop

Many birds cross the Gulf of Mexico non-stop, others take the longer route following the coast lines of Texas, Mexico and Central America. Some fly day and catch insects while in flight; this is true of most swallows. The greater number of small birds prefer to travel by night. Early dawn finds them dropping into the trees and bushes where they feed, bathe or catch a short rest before traveling on. They might spend a few days with us before leaving if time is short, they can be seen gradually working north as they feed. This saves time. Warblers, thrushes, sparrows and flycatchers are in this group. Some fly either day or night for they can secure food whenever hunger brings them to earth. Many ducks, geese and shorebirds eat lots at night.

Migration is hazardous. Storms kill untold numbers. Lighthouses and flood-lighted buildings, utility lines, towers and such structures all take a toll. Predators are always present and man is not the least for many look forward to annual hunting season. Hungry Eskimos welcome the return of birds.

Do You Know the Answer?

Just why do birds migrate? Some contend that a bird's home was originally in the north. There the ice age forced him to leave his ancestral home and each spring he tries to regain his former home but is forced to retreat when winter comes. Others place the ancestral home of all birds in the tropics where overpopulation forced birds to seek new breeding grounds, only to be forced back by winter. Many contend length of days enters the picture. More sunlight creates an urge to nest and hence the migration, however birds wintering near the equator would notice little difference in length of day.

Banding proves birds return to the same nesting area, or even the same nest, year after year. It also shows they return to the same wintering area. That shows an abundance of navigating ability, memory, instinct or other factor.

Dr. Frederick C. Lincoln, Dr. George H. Lowery and numerous other ornithologists have proved that most birds migrate, but in 1947 Dr. Edmund C. Jaeger found a poor-will hibernating. Aristotle would have welcomed this discovery.

Kathryn Johnson Wins 1953 State 4-H Club News Writing Contest

WINNER OF STATE 4-H Club News Writing Contest for 1953 is 14-year-old Kathryn Johnson, Prospector's 4-H Club, Russell county. Kansas Farmer, sponsor of the contest, awards her a \$50 college scholarship and a framed certificate. Her club receives \$5 cash for its treasury.

Runner-up in the state competition for 4-H publicity is Clare Patterson, Jr., 14 years old, and reporter for Haverly Happy Hustlers 4-H Club in Butler county. He wins a leather zipper notebook, and his club, \$10 cash.

Eight other reporters in the Blue Ribbon Group of 10 out of 52 entries include: Diane Klientz, Riverview club, Riley county; Connie Clary, Blackjack club, Pottawatomie county; Leanna Boone, Admire club, Lyon county; Sharon Kissman, Eden Valley Hustlers club, Crawford county; Carol Rusk, Rome Rockets club, Sumner county; Anita Thomas, Sky High club, Gray county; Merridith Elaine Fundis, Smilin' Thru club, Coffey county, and Mary Jo Kidd, Happy Hustlers club, Wilson county. Each win an inscribed pen and pencil set and their clubs win \$5 each.

Each year Kansas Farmer awards prizes and honors to top 4-H Club reporters in the state. This year books were better than ever, and competition was keen, but younger members came out on top. Two top winners are 14 years old and others in top group are the same age. This year only one boy won, at last year 5 girls and 5 boys won top honors. Judges included Gordon West, associate editor of Kansas Farmer (and state 4-H news writing champion one year); Marjorie Tennant, assistant Ag-



Kathryn Johnson

ricultural Extension editor at Kansas State College; Raymond Fort, assistant state 4-H Club leader at Kansas State College.

Kathryn Johnson was in the top 10 last year, and improved her publicity work so much she was state champion this year. She just has been elected president of her club for 1954. In addition to news and feature stories in several magazines and newspapers, she released publicity over the radio, sent stories to the National 4-H Club News at Chicago, helped on the 4-H newspaper staff at the 1953 State Fair. She had items published in the 4-H news column in Kansas Farmer. She lives on a farm at Luray, has a sister that also is an active 4-H Club member.

The 1954 contest is now underway.

FIND NEW USES FOR SHELLS, PITS

Anti-skid agents in auto tires, "fillers" for fine plastics and litters to keep poultry house floors dry—these are among many new uses developed for discarded nut shells and fruit pits.

Studies by the USDA Northern Regional Research Laboratory, Peoria, Ill., in co-operation with nut shelling and food processing companies, show such residues often can be used profitably. These pits are used: apricots, cherries, peaches, dates. These shells can be processed: almonds, coconuts, filberts, peanuts, pecans, English and black walnuts. About one billion pounds of such materials are available annually in the United States. Auto and tractor tire treads can be made to have superior non-skid and traction properties. Peanut and almond shells are highly absorbent and are good to keep poultry house floors dry.

CORNY but True!



Early North American Indians stored their corn much as we do today. Thorvald Ericson, Viking seafarer who reached the New World in 1002, reported seeing "wooden cribs for wintering corn."

Methods of corn culture certainly have changed—and Steckley has been among the leaders in bringing those changes. Steckley hybrid corn—backed by more than 20 years of research—starts, stands and yields better under all types of soil and weather conditions. Order your 1954 seed corn now.

STECKLEY HYBRID CORN CO.

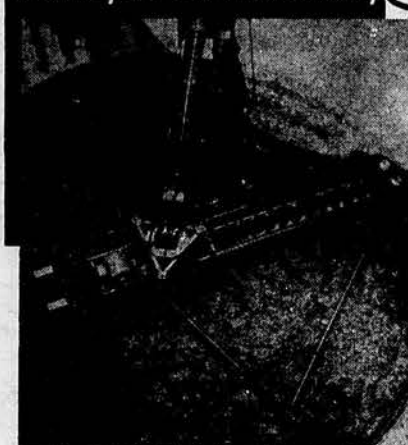
2416 N ST., LINCOLN, NEBR.

SEE YOUR FRIENDLY

Steckley Dealer NOW!



Now... there's a machine to unload your silo mechanically



the VanDale SILO UNLOADER

Delivers corn or grass silage—packed or frozen—in perfect feeding condition.

The VanDale cuts and chops the hardest packed or frozen silage and delivers it down your silo chute with just the flip of a switch. Now you can do away with one of your nastiest jobs and have extra time for other chores. The VanDale delivers perfectly scarified silage without lumps, chunks or pads... as fine as when first blown into the silo.

Fast
Efficient
Economical
Saves Time
Saves Work

Ask
for new
bulletin
SL-2!

Twin Augers with dozens of sharp knives scarify silage and carry it to a rotary impeller, onto an endless belt conveyor, and out the silo chute in a steady stream.

See the VanDale TODAY!

SALINA

CONCRETE PRODUCTS, Inc.
1104 W. Ash, Salina, Kansas

Read the Ads in This Issue

There's a world of helpful information in the scores of advertisements in this particular issue of the Kansas Farmer. Read them carefully. If you want to find out more about the articles described, don't hesitate to write the advertiser.

FOR QUICKER CHEAPER GAINS

the year around install your

MIDSTATE Stock Waterer

NOW for positive ICE-FREE watering all winter

• The Midstate self-filling waterer gives your cattle, sheep or hogs water warm enough to encourage drinking, even in the coldest weather. It adds pounds of beef, pork or milk the cheapest way — by providing plenty of drinkable water the year around.

• Economical electric heat—just a few cents for the coldest day
• Automatic thermostat temperature control
• Cool, fresh circulating water in summer

• Self-filling—never runs dry—never gets stale
• Models for cattle, sheep, hogs. Thousands now in use.

End your watering worries for good—install an automatic Midstate waterer NOW, while the weather is warm. See your dealer TODAY, or write for name of nearest dealer.

MIDSTATE MFG. CO.

Room 7, 1131 So. Bannock
DENVER, COLORADO

Choice Dealer Openings Available... Write for Details

World's Only SELF-PRIMING Deep Well Jet Pump



**Jacuzzi
does it
again!**

Greatest invention in pumping equipment since Jacuzzi originated jet pumps. Now for wells to 200 feet... a water system without any inaccessible valves or motor below ground to clog or corrode. Completely self-priming—even on gaseous or low-capacity wells or in event of power failure. It's fully patented. Exclusive with Jacuzzi.



Get the facts!

Don't buy any pump till you read new bulletin "JDJ-1." Write: Jacuzzi Bros. Inc., Richmond, Calif., or St. Louis 23, Mo. Dealers nationwide.

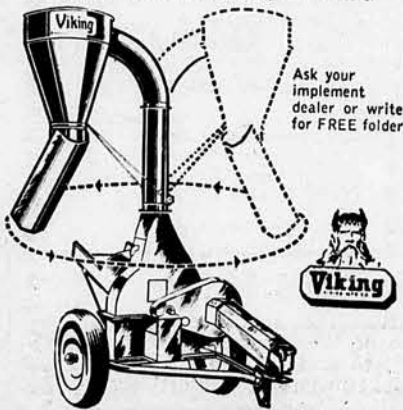
VIKING PTO MOBIL-MILL

The First—And Still The Finest

KNIFE TYPE

Hammer Mill on Wheels!

The more you've had to do with old-style grinders, the more you appreciate Viking. Only Viking has a 360 degree swivel Cyclone dust separator — a high-speed, positive, multiple strand steel roller chain drive. Large feed intake — accommodating bales, fodder, bulky feeds. Comes in 3 models—one with 3-point hitch mounting for Ford or Ferguson tractors.



Ask your implement dealer or write for FREE folder

**VIKING
MANUFACTURING CO.**

Makers of Viking quality elevators with the famous "Boarding House Reach"
1469 Viking Road Manhattan, Kansas
Tel: PRescott 8-3578

WILL TOPEKA TELEVISION AFFECT KANSAS FARMS?

**Kansas Farmer Editor Goes After Answers
and Comes Up With WIBW Broadcast**

Note: This is report of panel discussion recorded for broadcast November 7 at 6:30 p. m. over the Copper radio station, WIBW, 580 on your dial.

ART HOLBROOK: How do you do, everyone. WIBW now brings you a special discussion program in connection with opening of WIBW-TV, Topeka's television station. This is Art Holbrook speaking to you, in co-operation with the *Kansas Farmer* magazine. We have several folks in this studio we are going to hear from, but our moderator is Ray Gilkeson, Editor of *Kansas Farmer* and *Missouri Ruralist*, to whom I now refer you.

GILKESON: Thank you very much, Art Holbrook. Our new television station for Topeka goes on the air in just a week and a day, November 15 to be exact, so we are having this discussion to inform people where the new TV station can be viewed best, what some of the program plans are, and why *Copper Publications* and WIBW want to have a TV station.

Wes Seyler is here as Farm Director of WIBW; Dick Mann, associate editor of *Kansas Farmer*; Lewis Dickinsheets, chief engineer of the new TV station as well as WIBW; and Art Holbrook, TV station manager. A very intelligent-looking panel, indeed.

Wes Seyler, suppose you start the discussion by telling what you feel are radio's strong points in serving farm people.

SEYLER: I'd be happy to, Ray. I feel... it's quite important for the farmer to keep in touch daily with outside interests. He wants to know what the markets are... early in the morning... And weather forecasts are very high on his list of musts and needs. They should come early in the morning... He appreciates hearing about new techniques and practices applied by other farmers and recommended by specialists. He needs to keep in touch daily with policy-shaping events on the national scale... We feel there are other services such as sale announcements, schedules of meetings the farmer needs to know. These, Ray, are a few of radio's strong points in serving the farmer.

GILKESON: Thanks, Wes. That certainly is a good boost for radio. Now, Dick Mann, suppose you take the same question from the standpoint of a farm paper like *Kansas Farmer*. What are advantages we have in rendering farm service?

MANN: Well, Ray, first I would say *Kansas Farmer* deals primarily with farm problems rather than farm news. That means we have the opportunity to actually help farmers do a better job. We can study problems he has and offer some kind of solution. Another advantage, I think, is the farmer can file away his copy of *Kansas Farmer* until he is ready to use some idea he finds in it. I know many cases where

farmers have written in months after a story came out, and reported they had lost that particular copy and wanted another because of an idea they could use. Being able to run pictures and diagrams which farmers can study is a great help, too.

GILKESON: Dick, I think you have made a very good case for *Kansas Farmer*. I guess now it will be up to Art Holbrook to tell us where TV will fit into the picture... just why WIBW and the *Copper* organization feel television is needed in Topeka and in Kansas. Art:

HOLBROOK: Why, Ray, I think that can be summed up in a nutshell, so to speak. After all, *Copper Publications*, thru the farm papers, the daily papers and the radio stations are going into millions of homes every week, every day, every month. So it only adds up that such an organization should enter a fascinating new enterprise, the magic of television, which certainly brings the world to the living rooms of homes thruout the land. In other words, *Copper Publications* have had readers, listeners and now, in a very short time, viewers. It certainly adds up in my book.

GILKESON: Art, that certainly is an important-sounding nutshell. Before we get into the family effects of TV, I think we ought to know more about what Topeka is getting in the way of a television station. Lewis Dickinsheets,

will you answer that for us? Can you tell us something about what is being done out on TV location?

DICKINSHEETS: I'll tell you, Ray, the interim tower is up (300-foot tower to be used during the first few months of telecasting); the antenna is mounted on it, the transmitter is installed. Some last-minute work is being done on studio equipment and in the studio. It will be ready to go November 15.

GILKESON: That sounds good, Lewis. How will that differ from the permanent installation we will have a few months later?

DICKINSHEETS: The difference is tower-height... the permanent tower will be 1,000 feet high effectively; actually the physical height will be 950 feet but is on a high hill. Our present tower is only about 300 feet high... Also the transmitter power will be raised considerably. The effective radiated power of our present interim setup will be only 10 kilowatts, while the new one will be 87 kilowatts, so it will be a much stronger signal and will go out much farther.

GILKESON: That sounds very good. About how far out of Topeka can people expect to get better pictures and better all-round reception from the new WIBW-TV than they have been getting from out-of-town stations?

DICKINSHEETS: For the interim operation, the one we will have on the air November 15, in Shawnee county they should get a better picture from us than from any station now serving Shawnee county and that applies also to the area on west of Shawnee county. However, as you go east, you are getting closer to Kansas City stations and northeast, of course, to St. Joe, so that you reach a point out, oh say maybe 20 miles, where the signal will begin to be equal, 20 to 25 miles.

(Continued on Page 35)

CHAMPION DORSET EWE



CHAMPION DORSET ewe at Kansas State Fair, Hutchinson, was shown by Leonard Steward, Grenola.

CHAMPION SUFFOLK RAM



CHAMPION SUFFOLK ram at Kansas State Fair, Hutchinson, was shown by Fred Paulsen, Zenith.

INTERNATIONAL LIVESTOCK EXPOSITION & HORSE SHOW

Union Stock Yards—Chicago—November 28 to December 5, 1953

OVER \$100,000 IN PRIZES

Plan Now to Exhibit and Attend

- 26 Breeds Cattle, Horses, Sheep, Swine
- Spectacular Horse Show
- World's Biggest Carlot Show
- Meat and Wool Shows
- Nat'l Shearing Contests
- Internat'l Grain and Hay Show
- Nat'l 4-H Congress



GILKESON: Thank you very much, Lew.
DICKINSHEETS: We might go on a little farther there, Ray, if you don't mind, and point out that the eventual operation with the high tower will reach out as well or better than any other in the vicinity now. The 1,000 feet effective height is very effective in getting the signal out. I have before me just now a map on which are drawn the predicted coverage circles, of the 1,000-foot tower. West of here, one line passes thru Clay Center and Abilene; south, nearly to Iola and it goes east of Kansas City and northeast of St. Joe. That, of course, is the 100-microvolt contour, which is not a real strong signal. However, it is the same kind of signal you have been receiving here in Topeka for several years.

GILKESON: Thank you, Lew, now let's get away from specific questions to specific people and let anybody in who wants in, sort of a free-for-all. Here is the first question: What do any of you think may be the effect of television on farm family life? Dick, how about it?

MANN: Well, Ray, I have talked to several farm women about this. Some of them already have TV sets. One told me she does all of her jobs like ironing

and mending in front of the television. In other words, she has certain jobs around the house she just plans to move in where she can watch TV at the same time. I know one problem that already has come up in some of these families—and that is, they must work out some kind of schedule so farm children can practice musical instruments, for instance, if they are taking lessons, or they can care for their 4-H projects and do the chores.

GILKESON: Dick, I think that is intensely interesting. Wes, how about it?

SEYLER: Dick started by saying the lady does her work in front of the TV set and a lot of people will say you can't watch a TV program and do your ironing, washing or whatever. I know in many cases, and I think Dick wanted to bring this out, that the housewife is there and she can see just a little part of it and will hear the program like she did on radio, glancing over now and then and keeping right along with the theme of the program in progress.

MANN: I think they can do a good job of that, Wes.

GILKESON: Fine. Now here is another question. Can you see a value for 4-H Clubs, Future Farmers and other similar organizations in TV?

SEYLER: Maybe I can get in here. I didn't know whether Art started over to the microphone but Art, I would like to say 4-H Clubs and Future Farmers are strong on demonstrations. Isn't that right, Dick?

MANN: That's right.
SEYLER: This will be one place where we can bring demonstrations right into the studio and, of course, people thruout a whole wide area won't have to travel in to the fair or, to one of the livestock shows to see them. They can sit right there at home and see the picture on the screen and feel very much a part of the show.

GILKESON: Does anybody else want to put in a word?

MANN: Yes, I would Ray. Here is a point from the listener's standpoint or the viewer's, I should say, on television. I know during Kansas State Fair, I sat in a cafe in Walton, Kan., and watched TV coverage of 4-H events at the fair, and it was very interesting to see those prize animals and to catch the personalities of the young farm exhibitors at the same time. I think that is something the general public is going to really enjoy.

GILKESON: Dick, you and Wes Seyler are out on farms a great deal like many of the rest of us. Are many farm families getting television sets?

MANN: I'm amazed at the number of sets on farms in Eastern Kansas, and I occasionally see antennas on farm homes that would seem to be out of range of any telecasting stations. However, I understand reception is often better in the country than in the city where there are more causes of local interference. Is that right?

SEYLER: I think that is true. I remember in Nebraska when I taught school there, television was a new thing. We people in town would go out to the country to look in on these shows with our farmer friends.

GILKESON: Here's a question I think Lewis Dickinson will have to answer. Will presence of a TV station here in Topeka make any difference in how high the antennas are on homes in Topeka and Shawnee county?

DICKINSHEETS: Definitely, if they would be satisfied with one station. However, if they still want to get Kansas City stations or other stations around, they will still have to have high antennas. In Shawnee county, they should be able to get WIBW-TV with the very simple antenna, perhaps just rabbit ears, in the city at least with the rabbit ears.

MANN: Will we need a converter on our TV sets?

DICKINSHEETS: No, not to get channel 13. The only change that would have to be made in any of them, as I see it is, as you get farther out from Topeka, 20 to 25 miles, it may be necessary to have somewhat of a different antenna than at present, but no converter is necessary to get channel 13.

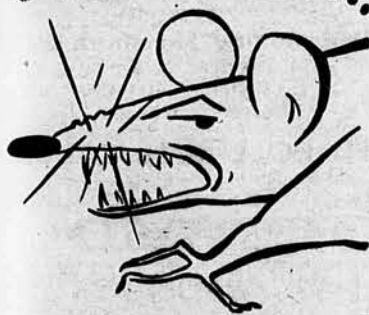
GILKESON: Let's go on here for just a minute. I imagine Art Holbrook has been making some studies and investigations. Art, tell us, do you find many basic differences between the likes and dislikes of farm people, and the likes and dislikes of townspeople in TV?

HOLBROOK: No, we definitely do not, Ray. I think entertainment is entertainment, no matter where you live. There is a difference in the service you can bring to people and that is what we are going to try to do with our TV station. I might list a program or two we plan on carrying, like Theater Guild of the Air, the Jack Benny show, Bishop Fulton J. Sheen and I could go on and on but I know our time is running out.

GILKESON: You folks will want to be tuned in to channel 13 on Sunday, November 15, a week from tomorrow afternoon to see the new Capper station's first television programs. The schedule will appear in the *Topeka Daily Capital*. Thank you, Art, Dick, Lewis and Wes, for taking part in this discussion about the newest member of the Capper Service Family—WIBW-TV and what it will mean to Kansas agriculture.

HOLBROOK: Thank you, Ray Gilkeson, and now all we have to do is pick up today's issue of *Kansas Farmer* and read over what we have just said. Yes, friends, you have been listening to a round-table discussion moderated by *Kansas Farmer* Editor Raymond Gilkeson. There will be more programs like this and stories in *Kansas Farmer* dealing with television and how you get the most out of it. This program was a feature of the WIBW Department of Public Affairs.

RATS...



are quickly killed
with **MANCO**
KILL-RAT

Manco Kill-Rat, a ready-to-use bait made with "miracle" WARFARIN, works when others fail. Kill-Rat is packed in all-metal, air-tight cans. Simply punch holes in can to use. Satisfaction guaranteed.

Made with WARFARIN

\$1.35 1 1/2 lb. can



Write Today To

manco

506 Santa Fe Drive
Denver, Colorado

DEALERSHIPS OPEN!

Live-**POW'R** PTO

FOR FARMALLS!

Does Auxiliary Engine Work
Gives Constant pto Speed

Speed harvests by making your Farmall H, M, Super H or Super M do auxiliary engine work. New M&W Live-POW'R provides constant pto speed regardless of tractor travel. Eight heavy duty clutch surfaces give smooth operation. For complete information see your tractor dealer or write Dept. G23.

Famous Add-POW'R Pistons & 8-Speed Transmission



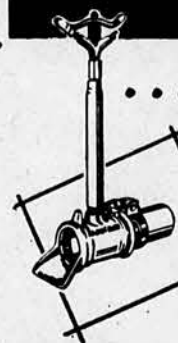
M & W GEAR CO.
ANCHOR, ILLINOIS

RESERVE GRAND CHAMPION SHORTHORN FEMALE



RESERVE GRAND champion Shorthorn female at Kansas State Fair, Hutchinson, was Maud 4th, shown by William Thorne, Lancaster.

WADE RAIN



... Nature's
WAY
Makes
Crops
PAY!

Cut Crop Costs

Reduce irrigation man-hours to minutes with WADE RAIN Sprinkler Irrigation... like rainfall, the most beneficial to crops, and low cost, too! Crop production costs are controlled when you have WADE RAIN — saves manpower, water... assures bumper crops... increases profits!

Self-Draining

"LOKS-IN" GASKET

No Lifting Pipes full of Water! Gasket automatically relaxes when pressure is off for fast, easy-moving. No Holes to weaken Pipe... Only WADE RAIN Has It!

POWER-ROLL



IRRIGATION WATER ON WHEELS!
Moves entire Sprinkler Line to new irrigating position under its own power... on wheels! Time and Labor-saving One-man operation...

"As Simple as Walking Across the Field"

MAIL COUPON TODAY!

A. E. ROBISON CO.

4001 Broadway
Kansas City, Mo.

Please Send Me Complete Information and Free Illustrated Literature on
☐ POWER-ROLL
☐ WADE RAIN Sprinkler Irrigation

NAME _____
 RT. & BOX _____
 CITY _____ STATE _____

PLAN NOW

Reliable Advertisers Only
Are Accepted
in *Kansas Farmer*

NEW BEAR CAT
COMBINATION
Grain and Roughage Mill
also Ensilage Cutter



No. 4A
Trailer Mounted
for Power Take-off Has traveling feed table and is especially designed for grinding or chopping larger quantities of loose or baled hay and roughage of any kind. Furnished either with or without Trailer Mount and Power Take-off. Both cutter knives and heavy swing hammers—it grinds any feed, green, wet or dry, snapped or ear corn, roughage bundles or baled flakes, with ordinary farm tractor—and no monkey business. Get full information on real honest-to-goodness grinding outfits. Write

Western Land Roller Co., Dept. 132
Hastings, Nebraska—Manufacturers

Classified Advertising Department

KANSAS FARMER Classified Advertising

WORD RATE
10c per word each issue.
Minimum—12 words.
Names and addresses are part of ad, thus are billed at per-word rate.

Livestock Ads Not Sold on a Per-Word Basis

DISPLAY RATE		DISPLAY RATE	
Column	Cost Per	Column	Cost Per
Inches	Issue	Inches	Issue
1/4	\$4.00	1/2	\$18.00
1/2	8.00	3/4	28.40

Minimum—2 1/2 inches.
Cuts are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads.

Write for special display requirements.
Kansas Farmer, Topeka, Kan.

● BABY CHICKS

Coombs Chicks. Backed by years of trapnest-pedigree breeding research. Real egg producers. Genuine Hy-Line Chicks from parent stock developed by Pioneer Hi-Bred Corn Company. Coombs strain-crossed Leghorns, Ancona-White crossbreds from high production stock. For broiler chicks, get Coombs Silver X crossbreds. Fast growing, fast feathering. Early order savings offer. Write Coombs & Son, Box 6, Sedgwick, Kansas.

Rocks, Reds, Hampshires, Wyandottes. \$9.95; pullets \$14.95; Leghorns, Ancona-Whites, Minors, \$8.95; pullets \$13.95; Heavyweights, \$8.95; Leftovers \$4.95; surplus \$3.95, as available. 26 breeds, Capons, Started Poultry, A.I.V.E. COD, Catalog, Bush Hatchery, Clinton, Missouri.

DeForest Bimblehead Chicks. broiler and egg breeds. Hatching year around. Broadbreasted Bronze. Poultry. Guaranteed livability. DeForest Hatcheries, Box E, Peabody, Kan.

● POULTRY

Stag Boosters.—Can be turned into delicious Capons by administering a tiny pellet. So easy. Bockenstettes, Sabetha, Kansas.

● POULTRY SUPPLIES

Portable, space saving poultry roosts; nowast mineral feeders. Otto Zimmerman, Fairfax, Minn.

● MACHINERY AND PARTS

For Sale.—Fertilizer drill, M&M 8-16, double run, rubber tires, \$375.00. Tractor 1950 W-8, \$1,400. Combines, Massey-Harris self-propelled 1952, 16 ft., \$2,900; 1951 10 ft., \$2,150. Springtooth harrows, heavy duty IHC 8 ft., \$75; 11 ft., \$100. Plows, Case and IHC, 4-16, rubber tires, \$175 each. Corn sheller, 1950 M&M, model D on trailer with 32 ft. drag, \$900. Milton Morrison, Salina, Kan.

Gordon Tractors. \$100. 3HP, including tools. Write: McLean Tractors, 324 West Tenth, Indianapolis 2, Ind.

Save 50% on One-way Discs. Adams hard-faced discs stay sharp for the life of the disc. Breakage, scoring difficulties eliminated. Information and prices on Adams complete line of hard-faced tools furnished free. Adams Hard Facing Company, Wakita or Gaymon, Okla.

V-Belts cut helting. Hammermill belts. New Holland baler canvas. Combine harvest canvas. Heavy water resistant duck. Illinois Canvas Co., Illinois, Ill.

For Sale. Seaman tiller motor mounted, 1952 model, perfect, \$2,850. 225 mounted John Deere corn picker, perfect, \$850. Raymon Stovall, Mineo, Oklahoma.

SD-8 Sheppard Diesel. large bore, live PTO, live hydraulic with two-way cylinder, belt pulley, used less than 6 months, \$2,400. Charles Pullin, Route 1, Rensselaer, Ind.

New American corn pickers. list \$1,100; drought price, \$885. Phone 85, Box 105, Parsons, Kan.

Garden Tractor \$100.00. "McLean." Cultivating, plowing, mowing Universal Mfg. Co., Indianapolis 2, Indiana.

● FARM EQUIPMENT

Gigantic Surplus Sale.—Tremendous savings. Government and excess inventory power plants, hydraulics, compressors, pumps, power sprayers, chain saws, binoculars, tools, hundreds items. Illustrated catalog free. Surplus Center, 877 O St., Lincoln, Neb.

Do You Know the advantages of electric fencing? Do you know the famous international Electric 106 weed chopper will not short out by weeds? Free information is available by writing International Fencer Co., Inc., 1105 W. Chicago Avenue, Chicago, Ill.

Wire Winder.—Avoid barbed wire entanglements, use a tractor-powered wire winder. Low cost. Free literature. Midwest Wire, Dept. 28, South St., Paul, Minn.

"We Sell Rain" Pumps—Pipe—Wheels—Skids—under sold. Leaders in quality, price, discounts. Conrad's, Gaylord, Kan. Factory Rep.

Spring Gate. Stay on your vehicle. Open and close your gate by pulling a cable. Write for folder. Spring Gate Co., Lamont, Kan.

30-Horse General Electric totally enclosed motor. Tom Taylor, Great Bend, Kan.

● SEEDS

Plenty of certified, high-germinating Ponca & Pawnee seed wheat. in overhead bins; bulk \$2.50 bu., cleaned, tagged and sealed, \$3; twenty-five miles west of Fort Scott, Kansas, on 64 highway Rt. No. 2, phone 11F22, Moran, Kansas. A. A. Ensminger.

POPCORN

We are in the market for popcorn, both yellow and white. Send samples if possible and advise the kind and approximately how much you have to offer and whether it will be on the ear or shelled.

F. A. MANGELSDORF SEED CO.
Box 486 Atchison, Kansas

● LIVESTOCK ITEMS

Write for Free Literature on Hog Cholera, Swine Dysentery, Hemorrhagic Septicemia (shipping fever). Colorado Serum Co., 4950 York St., Denver 16, Colo.

● DOGS AND SUPPLIES

English Shepherd Puppies.—Thoroughbreds; farm raised. These pups are all black with brown spots above eyes and little brown or white on chest or legs. Exceptional pups. Come see, be convinced. Phillips Farm, 117th-Grandview Road, Grandview, Missouri.

Coon Hunters! Read a monthly magazine devoted to coonhounds, training, news, stories. 12 issues \$2.00. Sample 20c. American Cooner, Box 2118, Seaser, Ill.

Beautiful Golden Collie Puppies. Eligible A.K.C. Purebred English Shepherds. Barnes, Collier, Kan.

● RABBITS AND PIGEONS

Red & Bell's Rabbits. On order only. New Zealand White, American Chinchillas. Stamp for prices. R. I. St. Paul, Kan.

● FARM LANDS

123 Acres.—8-room modern house, built-in cupboards, inlaid linoleum, tile bath, two-car garage attached, two enclosed porches, house couldn't be replaced for \$15,000. Would sell house and approximately 50 acres wonderful lake site or with same house and good barn up in good repair, never-failing spring runs in pasture, land slightly rolling. A good farm in good repair. Have operated farm for past 20 years. Located 10 miles Mt. Vernon, one of the best working towns in state. 1 1/2 miles northwest Mt. Liberty, Ohio. Price \$23,000. J. W. McLaughlin, Rt. 1, Centerville, Ohio.

280-Acre Farm in Brown County, Kan. Near county seat, good 2-bedroom home, extra fine masonry barn 32' x 64', large loft, attached silo, modern stanchions, mangers and litter carrier, useful for dairy or stock cattle, other improvements, good water, well fenced, 70 acres improved grass pasture, land seeded to fall grains and clovers, land in high state of cultivation, priced right. Owner has other interests. \$10,000 will handle. Farm machinery available to purchaser. For more particulars write to owner, Grace L. Leenerts, Gen. Del., Hiawatha, Kan.

For Rent 1,120 acres improved. Central South Dakota; near gravel and black top highway, possession now. 75 to 100 ton hay can be cut in pasture this fall. 650 acres broke, heavy producing black soil extra good, 374 acres wheat base, for spring wheat, 3 miles to school, good reference and equipment required. J. J. Lewis, Box 107, Hastings, Neb.

Strout's Farm Catalog. Farms, Homes, Business, 33 states, Coast-to-Coast. Describes 3,298 bargains. Mailed free. World's Largest 53 years service. Strout Realty, 20-V West 9th St., Kansas City 5, Mo.

Must sell account health. 82-acre farm, heart of Arkansas Valley. Mailed free. 6-room home, barn, onion and chicken house. Write details. E. K. Rocky Ford, Colo., Route 1, Box 235.

Free information about Ozarks. Booklet with actual photos mailed free. Owensby & Son, Buffalo, Missouri.

500-Acre Improved Farm and Others. Paul Moline, Benson, Minn.

● FURS, HUNTING, TRAPPING

Trappers! Big 64-page colored catalog free. Stamp appreciated. Stanley Hawbaker, Box 540, Fort Loudon, Pa.

For Sale.—Ferrets to get rid of those rats. Glenn Russell, Chesterland, Ohio.

Ferrets White or Brown \$8.00 each or \$15.00 per pair. Greene Pet Farm, Wellington, Ohio.

● FUR BEARING ANIMALS

Raise Mink. Free booklet, pen plans, inside "secrets," feed, care, Mink are money makers. Investigate today. Lawrence Moigard, Brigham City 55, Utah.

● EDUCATIONAL BOOKS

AUCTION SCHOOL Learn Auctioneering America's Leading Auctioneers Teach You. Students sell actual Sales. Largest school in world. 20 years in operation. Don't be misled. Term soon. Free catalog. Write **REISCH AUCTION SCHOOL**, Mason City, Iowa

Learn Auto and Diesel mechanics or auto body repair in 16 to 25 weeks. Also short courses in lathe and welding, G.I. approved. Write for particulars. Hanson Mechanical Trade School, Box 1780-K, Fargo, N. Dak.

Learn Auctioneering. Term soon. Write for catalog. Missouri Auction School, Box 3425A9, Kansas City, Mo.

● HOME HEATING

Parts for All Stoves, ranges, heaters, furnaces. Fit guaranteed. Write for prices. Give make, model and part number. Omaha Stove Works, Dept. K, 1204 Douglas St., Omaha, Neb.

● AGENTS AND SALESMEN

Extra Cash Can Be Yours. Our expansion program has created several additional attractive dealerships. You can increase your cash. If interested in extra earnings either on a part- or full-time basis write for free information. No experience necessary. KFK Medicine Company, Keokuk, Iowa.

Make \$75 and up every week. Full- or part-time. Take orders for America's largest selling nationally advertised liquid fertilizer. No investment. Write "Na-Churs" Plant Food Company, 344 Monroe St., Marion, Ohio.

● OF INTEREST TO WOMEN

Pinking Shears.—Only \$1.95 postpaid. Chromium plated, precision made. Manufacturer's Christmas overstock. Guaranteed \$7.95 value or money refunded. Lincoln Surplus Sales, 1704 W. Farwell Ave., Chicago 26, Ill.

Stainless Steel Vaporseal 18-8 One Quart Sauce Pan. \$6.00; three \$9.50; four \$10.50; six \$14.00; two \$5.50; eight \$15.75. Dripolators. Pressure Cookers. Skillets. Majors, 226 Durant, Springfield, Mass.

Wonderful Mir 18"x18" crystal clear plastic bags regularly 10c, limited time only 5c each postpaid! Order all you want. Hundreds household uses! Hurry! Wenonah Sales, Box 195, Dept. WK, Winona, Minnesota.

Do you wear size 40 to 60? Slips, gowns, half-slips, bloomers, panties, stockings. Buy direct from manufacturer. Write for free catalog. Gradis Company, 263 West End Avenue, New York 28, New York.

Thrilling, Profitable Home Business. Make fast-selling, chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Velva, Bohemia 2, N. Y.

Fairmount Maternity Hospital.—Seclusion and delivery service for unmarried girls. Adoptions arranged; low rates; confidential. 4911 E. 27th St., Kansas City, Mo.

Women make money at home, spare time. Sew ready cut Rap-A-Round Easy profitable. Hollywood Mfg. Co., Dept. AF, Hollywood 46, Calif.

Bronzed Baby Shoes mounted on picture frame, ash tray, bookends, \$5.98 C.G.O. Work guaranteed. Texoma Bronzing Service, Denison, Tex. Route 3.

12 Fascinating, miniature. Cactus. Succulent plants postpaid for 50c. Descriptive bargain list. Cactus Jack, 401 E. 110th St., Los Angeles, Calif.

Good Money in Weaving. Weave rugs at home for neighbors on \$8.50 Union Loom. Thousands doing it. Booklet free. Union Looms, 183 Post St., Boonville, N. Y.

Send Wool or Wool Rags. For woollens, batting, blankets. Free circular. Litchfield Woolen Co., 303 N. Sibley, Litchfield, Minn.

Found: Large remnants \$1.00; velvets \$1.50; postpaid. Samples 30c. Rainbow, Estill Springs, Tenn.

Beautiful Santa Colorado scenic pillowtops \$1.50. 18"x18". Bryant Service, Box 8201—Colfax, Denver, Colorado.

Woolmakers.—Braiders, Hookers, Beautiful 100% Wool, kingsize pieces, lowest prices. Edlen Studios 12, Rockland, Mass.

● FILMS AND PRINTS

Two Happy People you and we—when you send us your films. You will be pleased with the beautiful results—and we will be happy to please you. Jumbo oversize finishing. Quality work—low prices, same as contact. 8-exposure roll superfine finish only 40c. 12-exposure, 55c. 16-exposure, 70c. 36-exposure, \$1.50. Oversize reprints, 30c each. Send us your order. Free Mailers. Mailbag Film Service, Box 5440A, Chicago 80, Ill.

Photo Christmas Cards, very personally yours. 16 cards and envelopes from your negatives for \$1.00, 300 for \$6.00. Send 35c extra if you enclose a photo. 1 deckled-edge print on 8-exposure roll 25c, 2 prints each 38c.

SUMMERS STUDIO

Unionville, Mo.

No Charge.—for developing roll—same day service—pay for prints only—regular size 3c—Jumbo 4c. Refund on prints not good. Established 23 years. Square Deal Photo, Box 1153 D, Hutchinson, Kan.

20 DECKLEDGE REPRINTS 50c

6-8 exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints, 40c each.

TINY'S PHOTO SERVICE

Box 1063-KF Topeka, Kan.

Eight-Exposure Roll printed one of each 30c; two each 40c; one each Jumbo 40c. Star Photo, Denver, Colo.

Enlarging.—Professional work. Double weight paper, 5x7—25c, 8x10—40c, 11x14—50c, 16x20 minimum. Rose's Studio, 5013 Newcastle, Riverside, Calif.

● FOR THE TABLE

HONEY MIXED FLOWER (Dark) 60-lb. Can FOB \$9.90

Extracted—Pure as bees can make it. 60-lb. Can Clover, FOB... \$12.00 12-lb. Can Clover, FOB... \$3.60 12-lb. Can Clover (Postpaid to 300 mi.)... \$3.60

Order Promptly.—Supply limited. HAHN APIARIES, 1718 Lane St., Topeka, Kan. Smoked Whitefish (Canadian) 10-lb. carton postpaid \$6.00. Fradet, West Fargo, N. Dak.

● PLANTS AND NURSERY STOCK

American Ginseng Free.—How to grow and sell. Have seed and plants. Ginseng Gardens, Asheville, North Carolina.

● FLOWERS AND BULBS

2 Blooming Elephant Ear bulbs; 4 tiger lilies; either lot, \$1.10; all, \$2.15. Ruth Harper, 1302 Harland, Hot Springs, Ark.

● PATENTS AND INVENTIONS

A. H. Sturges, 317 Sunderland Bldg., Omaha, Neb. Registered Patent Attorney, U. S. Patent Office. Procedure information, evidence of invention form and patent book sent on request.

● BUSINESS OPPORTUNITY

Strange "Dry" Window Cleaner. Sells like wild. Replaces messy rags, liquids. Simple glide over glass. Samples sent on trial. Kristee 180, Akron, Ohio.

● OF INTEREST TO ALL

The Biggest Bargain of the year! Now you can subscribe to Country Gentleman, the nation's leading general farm magazine, for 17 full months for only \$1—little more than 3c a copy! Authoritative articles on livestock, poultry, crops, dairies, plus hundreds of profit-making, cost-saving ideas. Four separate geographic editions cover the latest news of your local markets, problems, conditions. Country living section offers features on home remodeling and repair, style news, gardening, foods. Send your dollar today to Curtis Circulation Co., Dept. 943, Independence Square, Philadelphia 5, Pa.

Save 20% to 50% on nationally advertised, guaranteed appliances, housewares, Xmas gifts, toys, watches, cameras, jewelry. Write for Free big catalog. Housewares, Dept. G, 351 W. 71st St., Chicago 21, Illinois.

Read Capper's Weekly and receive a gift. It's the most interesting and informative weekly newspaper you have ever seen. Write Capper's Weekly for details. Circulation Department K, Topeka, Kansas.

Save Chickens Feed! Don't feed the sparrows high priced chicken-feed. My homemade trap guaranteed to catch them by the dozens. Easy to make. Plans 10c and stamp. Sparrowman, 1715 Lane, Topeka, Kan.

Money-making Opportunities. Choose from hundreds. Read world's biggest classified medium. Free copy. Popular Mechanics Classified, 200-KF East Ontario, Chicago 11, Ill.

Outdoor Toilets, septic tanks, cesspools cleaned, deodorized. Saves digging, pumping. Circular free. Solvex, Monticello 6, Iowa.

Free list of imported curios. Warner's, Box 6, Ft. Scott, Kansas.

Leather Jackets Renovated, expertly, free circular. Berlew Mfg. Co., Dept. 80, Freeport, N. Y.

● REMEDIES—TREATMENTS

Arthritis and Rheumatism sufferers: Read "Crude Black Molasses" by Cyril Scott. One dollar postpaid. Harmony Book Shop, New Castle, Penn.

Lift-O-Rink, just what so many are looking for. (Lifts face wrinkles) look 20 years younger. \$1.00 postpaid, free details. D. R. Cloud, P. O. Box 1091, Miles City, Mont.

Free Book.—Piles, Fistula, Colon-Stomach, associated conditions. Latest methods. Thornton & Minor Hospital, Suite C1106, Kansas City 9, Mo.

● WANTED TO BUY

Want Used Late model John Deere. five (5) bolted mid-board plow. L. W. Manley, Carnegie, Okla. Phone 2 or 600.

Would Like to Buy 1915 automobile or older. Also old guns. Write, call or see Wally Smith, 1719 N Street, Lincoln, Nebraska. Phone 2-5615.

● FEATHERS WANTED

West Chicago Feys More: Get highest cash prices for your goose and duck feathers. Send sample for prices of used feathers. Free shipping tags. Prompt payment. Company highly rated. West Chicago Feather Company, Dept. C. G., 172 N. Aberdeen St., Chicago 7, Ill.

● AUCTIONEERS

HAROLD TONN
Auctioneer and Complete Sales Service
Write, phone or wire Haven, Kansas

BERT POWELL
AUCTIONEER
LIVESTOCK AND REAL ESTATE
1620 First Avenue Topeka, Kan.

Dual-Purpose CATTLE

MILKING SHORTHORN BREEDERS' SALE

Wednesday, Nov. 18

Fairgrounds, 12:30 P. M.

Hutchinson, Kansas

25 Females — 10 Bulls

Fresh Cows and others to freshen soon; Bred and Open Heifers; and 10 herd-heading quality Bulls. Eight out of RM dams and serviceable-ages. Come and make your choice. Own your own herd here.

For information and catalog write C. O. HEIDEBRECHT, Secretary Inman, Kansas

MILKING SHORTHORN HERD DISPERSAL NOVEMBER 16, 1953 BEATRICE, NEBRASKA

Selling 35 head including 14 Cows, all RM and (2ARM).

Cows are classified 1 Ex., 8 VG and 5 GP. The herd sire Cedarview Gallant (Scored Ex.) and Gr. Ch. at the Neb. State Fair in 1950 and State Show in 1951, '52, & '53. He sells.

Write CHAS. KIMMERLING for catalog. CREST VIEW FARM Beatrice, Nebr.

LOCUST DELL FARM OFFERS MILKING SHORTHORN

Heifers & Young Cows of top breeding LOUIS MISCHLER, Bloomington, Kansas (Osborne county)

Polled Milking Shorthorn BULLS

For sale: Serviceable age on down.

LAVERN F. DUNN Formosa, Kansas

RED POLL BULL CALVES

For Sale. Eligible to register. 12-14 mos. of age. ALLAN AYRES, Route 1, Augusta, Kan.

Dairy CATTLE

WISCONSIN DAIRY CATTLE

Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Delivered to your farm C.O.D. Dennis R. Grosse, York, Nebr., Ex. 48, Ph. 1419

FOR SALE

DAINTY WONDERFUL 518706

Reg. Jersey Bull 3 yrs. old. Line bred Advancer, sire, Mayfield Advancer, dam, Advancer Dainty Snowdrop. Priced reasonable.

HARRY RANDOLPH, Nashville, Kansas

HOGS

Spotted Poland China

Choice boars ready for service.

CARL BILLMAN, Holton, Kansas

SPOTTED POLAND CHINA BOARS

Very choice and ready for service.

WARREN CONSTABLE & SON Havensville, Kansas

REGISTERED

HAMPSHIRE BOARS

Good heavy boned type, weight 300 lbs. 14 miles north and one half east of Guiderock.

BYRON C. WENZINGER, Lawrence, Nebraska

DUROCS

Top-notch breeding. Boars now. New breeding for old customers. Call us collect.

529 REGISTERED ANGUS SELL IN THIS TEXAS DISPERSION

The Thompson Angus Ranch
herd will be dispersed on

**NOVEMBER
23 and 24**

Sale will be held at the Terry
Thompson Jr., Ranch 85 miles
north of

**AMARILLO,
TEXAS**



or 10 miles south of Dumas,
Texas, on Highways 87 & 287.
367 LOTS—200 Cows with calves at side. 60 Open Heifers—remainder of
females 2 years old and heavy springers. 50 two-year-old Bulls, including
herd Bulls. 40 Bred Heifers.

AN OUTSTANDING HERD—QUALITY PLUS UNIFORMITY
BLOODLINES—Many grandsons and granddaughters of the \$75,000 bull Eva's Bandolier
and sell. Also 2 sons of Eileenmere 500 that have been used in the herd are selling. Sons of
Prince G. of Sunbeam, Master Prince 2nd and Eileenmere 1002nd have been used in this
great producing herd. NOTE—All cattle will be sold the 1st day if possible.

For catalog or further information, contact
RAY SIMS, Sales Manager, Belton, Mo.

Auctioneers: Roy Johnston, Ray Sims, Paul Good, Hamilton James

SMITH PRODUCTION SALE OF

REGISTERED ANGUS CATTLE Lyons, Kansas, November 17, 1953

Lyons Sale Pavilion. 1 mile north of Junction 50N & K14.

52 HEAD — 39 LOTS

13 Cows with calves at foot. 8 bred 2-year-old Heifers. 11 two-
and coming two-year-old Bulls. 2 Club Steers. 1 Club Heifer
This sale will feature the get and service of Envious Eileenmere 3d 669313

For catalog write, owner

ERNEST L. SMITH, Raymond, Kansas

POLLED SHORTHORNS

3 of the tops, sell
NOVEMBER 13, 1953
at HUTCHINSON

10 Serviceable Bulls—\$150 and up
10 Bred and Open Heifers—\$150 up
10 Bred Cows—\$150 and up
Cherry Hill Hallmark and Coronet.
Bloodlines among the best.
J. C. BANBURY, Plevna, Kansas

POLLED SHORTHORNS

FOR SALE

A good selection of bulls 15 months of age
and younger, also a number of cows, some
with calves, prices reasonable. Watch for
our consignment at the Kansas Polled Short-
horn Sale, November 13, at the State Fair-
grounds, Hutchinson, Kan.
LOVE and LOVE, Partridge, Kan.

SHEEP

**HAMPSHIRE SHEEP, DUROC HOGS,
AND MILKING SHORTHORNS**
Purebred stock. Both sexes. All ages.
WILLARD WALDO, De Witt, Nebraska

BRED EWE SALE

STATE FAIRGROUNDS

HUTCHINSON, KANSAS



THE KANSAS PUREBRED SHEEP BREEDERS ASSN.

Will Hold Its 8th Annual Show and Sale

Monday, November 16, 1953

High quality bred ewes of the Hampshire, Shropshire, Suffolk, Southdown,
Dorset, Cheviot and Corriedale breeds will be offered.

Judging of the Show Ewes, 10 A. M.—Sale, 1 P. M.

For catalog, address

KANSAS PUREBRED SHEEP BREEDERS ASSN.

T. Donald Bell, Secretary, Kansas State College, Manhattan, Kansas

JERSEY DISPERSAL NOVEMBER 18

**28 HEAD. 20 Head Cows and Heavy Springers
Balance Heifers.**

1950 was last year cows were tested. They produced
460.4 lbs. fat with 5.6 test. Tb. and Bang's tested and
calf vaccinated. I am also selling some farm equip-
ment. It includes a 2-unit DeLaval milker.

Sale will be held on farm about 6 miles west of

MANHATTAN, KANSAS

2 miles east of Keats on Highway 24

ALEX CROWL, Route 1, Manhattan, Kansas

NORTHEAST KANSAS ABERDEEN- ANGUS BREEDERS ASSN. SALE



**November 9, 1953
HIAWATHA, KANSAS**

at the Sale Barn

SALE AT 1:00 P. M.

46 REGISTERED CATTLE

Selected from the leading herds in Northeast Kansas. 7 Bulls, all service-
age. 39 Females, 3 Cows with calves, 10 Bred Heifers, 26 Open Heifers.

For information and sale catalogs write

WAYNE UKENA, Sale Manager, Everest, Kan.

Mike Willson, Auctioneer

SIXTH ANNUAL KANSAS POLLED

HEREFORD SHOW and SALE

November 30, 1953—Topeka, Kansas

KANSAS FREE FAIRGROUNDS



SHOW—9:00 A. M.

SALE—1:00 P. M.

Joe Purdy, Butler, Mo., Judge

SELLING: 28 BULLS, 20 FEMALES

CONSIGNORS

BROWN, MARK and ESTHER, Wilmore
DICK, PAUL, Mt. Hope
ENGLER & SON, ALLEN, Topeka
FUNK, CARL, Valley Falls
GLEASON, VERNE, Seward
KANSAS HEREFORD RANCH, Hays
KERBS & SON, FRITZ, Otis
KINDT, C. J., Independence
KOITERMAN, LESTER, Onaga

LEWIS & SON, JOHN M., Larned
McCALLUM, R. D., Matfield Green
MEDLEY & SON, CECIL, Tampa
REICH & SON, JAKE, Paradise
RIFFEL & SON, GEORGE, Hope
STUMPS & SON, JOHN, Bushton
WALKER & SON, WESLEY, Fowler
WITTORFF & SON, ART, Inman
WOODS & SON, GUY, Larned
LENITON, R. H., Wauneta

Top herd bull prospects and quality foundation females offered
in this sale from top Kansas herds.

Attend the banquet and meeting at the Jay-
hawk Hotel, Sunday evening, November 29
at 7:00 P. M. Visitors welcome

For catalogs and information, write

VIC ROTH, Sec.-Mgr. — Box 702, Hays, Kansas

Freddie Chandler, Auctioneer

Mike Willson for Kansas Farmer

BULL BULL BULL SALE SALE SALE

POLLED — POLLED — POLLED — POLLED — POLLED



MODEST C. LAMPLIGHTER 4TH

Mon., Nov. 16

1 P. M.

Cambridge, Nebr.

40 BULLS SELL

Top Quality Polled Hereford
Herd Bull Prospects. For
Ranchers, Farmers, Breed-
ers.

Bred Right to Breed Right.

Write now for sale catalog to

C. K. MOUSEL

EDISON, NEBRASKA

Laurence Buller, Representing
Nebraska Farmer

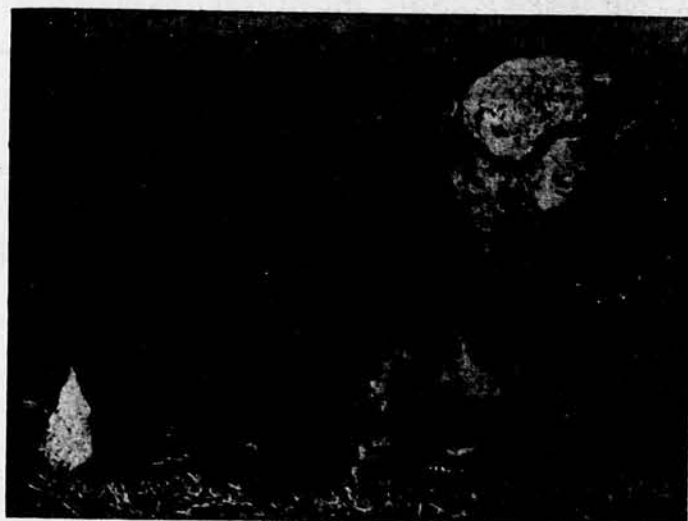
REICH-MATHESON

POLLED HEREFORD SALE

Thursday, November 19, 1953

NATOMA SALE BARN — 1:00 P. M.

NATOMA, KANSAS



SELLING 66 LOTS — 29 Bulls, 37 Females

Jake Reich & Son, Paradise, selling: 9 Serviceable-age Bulls, sired by ALF Beau Rollo 79th and CRR Leskan 8th. 6 Coming Yearling Bulls, sired by ALF Beau Rollo 79th and CRR Leskan 8th. 23 Open Heifers sired by ALF Beau Rollo 79th.

Frank Matheson, Natoma, selling: 1 Herd Sire, Perfect Domino 17th, grandson of Beau Perfect 246th. 1 2-year-old Bull, son of ALF Real Onward 44th. 12 Yearling Bulls, sired by Perfect Domino 17th. 3 Young Cows, sired by CK Keystone 8th and bred to Perfect Domino 17th. 11 Open Heifers, sired by Perfect Domino 17th and ALF Real Onward.

For catalogs, write to

VIC ROTH, Sale Manager, Box 702, Hays, Kansas

Auctioneer: Freddie Chandler

Mike Wilson for Kansas Farmer

Your Best Buy Today Is U. S. Savings Bonds

THE CENTRAL KANSAS POLLED HEREFORD ASSN. SHOW & SALE

at the fairgrounds in

Herington, Kansas—Nov. 20, 1953

Selling 45 Head—23 Bulls and 22 Females

Featuring the top bloodlines of the Midwest. Some good 4-H project heifers will be sold.

Show at 9:00 A. M. — Sale at 1:00 P. M. Sharp

CONSIGNORS

CLARENCE BROOKS, Wayside
ALLEN ENGLER, Topeka
HAROLD GINGRASS, Sedgwick
DELBERT JOHNSON, Wauneta
OLIVER KLEIN, Clay Center
LESTER KOLTERMAN, Onaga
R. H. LENITON, Wauneta
CECIL MEDLEY & SONS, Tampa
R. D. McALLUM, Matfield Green
GEORGE RIFFEL, Hope
O. J. SHIELDS, Lost Springs
A. T. WITTORFF & SONS, Iaman
F. T. WITTORFF & SON, Iaman

Herington is located on R. I. & Mo. Pac. Railroads and Highways US 50N—US 77—K 10—K 4. Following a 7 o'clock dinner the evening before the sale, Walter Lewis will show pictures he took of the cattle and tell his experiences while judging cattle in Australia.

For catalogs, information, or reservations write

O. J. SHIELDS, Secretary, Lost Springs, Kan.
Freddie Chandler, Auctioneer
Mike Wilson for Kansas Farmer
Walter Lewis: Judge



ANNUAL BELLYACRES RANCH SALE

Nov. 18th, Paxico, Kansas

At the ranch 20 miles west of Topeka, Kansas, on Highway 10

All bred by us on our ranch located in the Kansas Flint Hills

22 BULLS — 12 Bulls are of serviceable age, rest are yearlings, several of which are herd bull prospects.

48 FEMALES

28 Bred Heifers

Some calves at side

20 Open Heifers

some are old enough to breed

Sires represented—

BWF Duke Pride

BR Snokomo 12

JO Royal Domino 59

Astermix 43, a son of JO Royal Domino 45

TR Zato Heir 134

Offering out of

Real Nugget 89's
daughters and granddaughters

SPECIAL

Eight top quality 4-H 1953 steer calves

If you are looking for good yellow calves be sure to attend.

Write for catalog

BILL TRUE, Owner

GENE WATSON, Auctioneer

GEORGE FRITZ for the Stockman

BELLYACRES RANCH

BILL TRUE — PAXICO, KANSAS

State Polled Shorthorn Sale at Hutchinson, on November 13th

Three head of dark red heifers, two are sired by Bonanza x, a half brother to Hudson's champion pair of bulls at the '53 Polled Congress. All calf-hood vaccinated and selling open.

HARRY E. ESHELMAN
SEDGWICK, KANSAS

POLLED HEREFORDS For Sale

Yearling bulls, also bull and heifer calves that are weaned.
Sired by Advance Choice 16th and Advance Domino 8th. Priced reasonable.
MARTIN J. SHIELDS & SONS
Lincolnville, Kan., Route 1
Mutual Phone 11-11
Near Highways 77 and 50N

POLLED HEREFORD BULLS AND HEIFERS

From 12 to 18 months old. Also cows with calves at side. Due to the long drought these cattle are priced very reasonable.
Phone 1404 Woodbine.
GEORGE L. RIFFEL & SONS
Hope, Kansas

Public Sales of Livestock

Aberdeen-Angus Cattle
November 9—Northwest Kansas Angus Association, Hiawatha, Kan.
November 17—Elmer L. Smith Production Sale, Raymond, Kan. Sale at Lyons, Kan.
November 23 and 24—Thompson Angus Ranch, Amarillo, Tex. Ray Sims, Sales Manager, Belton, Mo.
December 7—Annual Registered and Commercial Sale, Dodge City, Kan.
February 10, 1954—Chisholm Trail Angus Breeders, Caldwell, Kan.
March 29, 1954—Ericson-Thalman Davis, Hutchinson, Kan.
Hereford Cattle
November 9-10—Sunflower Futurity, Hutchinson.
November 11—W. H. Tonn & Son, Haven, Kan.
November 18—Bellyacres Ranch, Paxico.
November 19—Matheson & Reich, Natoma, Kan. Vic Roth, Sale Manager, Hays, Kan.
November 23—Solomon Valley Hereford Association Sale, Osborne, Kan.
December 2—Tredway 9th Sale, Oakley, Kan.
December 4—South Central Hereford Association, Newton, Kan.
December 12—Glenn I. Gibbs, Manchester, Kan. Sale at Clay Center, Kan.

December 16—Salina Hereford Sale, Gene Sorenson, Sale Manager, Salina.
January 23, 1954—Walnut Valley Hereford Ranch, Waite Bros., Winfield, Kan.

Polled Hereford Cattle
November 7—O'Bryan Ranch, Registered Cattle Sale, Hiattville.
November 13—H. H. Carrothers Polled Hereford Dispersion Sale, Paola, Kan. Vic Roth, Sale Manager, Hays, Kan.
November 17—O'Bryan Ranch Polled Hereford Sale, Hiattville.
November 20—Central Kansas Polled Hereford Association, Herington, Kan. O. J. Shields, Sales Manager, Lost Springs, Kan.
November 21—Jesse Riffel & Sons, Enterprise.

Sale Cancelled

The Northwest Missouri Hampshire Sheep Sale, St. Joseph, Mo., that was to be held on November 20 has been cancelled. There was not enough breeders available to make up the number required to hold the sale.

REG. HEREFORD SALE

Abilene Sales Pavilion on U. S. Highway 40 Bi-Pass

ABILENE, KANSAS

Wednesday, November 11—1:00 P.M.

16 BULLS — 30 FEMALES

Sons and daughters of S R Larry Domino 10, WHR Royal Tredway L. 1, WHR Mixmore 10th, and BHR Helmsman A. 61th

This offering will consist of bulls of all ages, cows with calves at side, bred heifers and open heifers. Two steers suitable for 4-H projects will sell.

Write for catalog to

Jones Hereford Farms, Detroit, Kansas, or
Donald E. White, Bennington, Kansas

Gene Watson, Auctioneer

13th Annual Armistice Day Sale

VALLEY VIEW RANCH

Haven, Kansas—November 11, 1953

Sale at the ranch 3 miles west and 3 1/4 miles south of Haven, Kan.

Now is the time for the commercial man to replace his herd with good bloodlines. There is less spread between commercial and registered prices than there ever has been before so why not have a top-notch commercial herd.

50 REGISTERED HEREFORDS 50

25 Cows with calves at side. 8 Serviceable-age Bulls.
8 Open Heifers. 9 Bred Heifers

WHR cows bred to C A Proud Mixer 1st by WHR Proud Mixer B. H D Larry Dom. 1st by Larry G Dom. 7th. M Larry's Prince by MW Larry Dom. 46th.

This is the best lot of cattle we have ever offered. These cattle are easy fleshers. They are on grass now and will be until sale day and they are in good flesh.

(FREE DELIVERY ON 3 LOTS OR MORE)

W. H. Tonn & Son and O. W. Fishburn & Son

Harold Tonn, Auctioneer

Attend SCHEUERMAN BROTHERS, Deerfield, Kansas

"COMBINATION SALE"

REGISTERED & GRADE HEREFORDS

It's a Dispersion of All the Grade Cattle

It's the First Production Sale of Top Quality Reg. Herefords. Herd and Range Bulls—Bred and Open Heifers—Cows and Calves at the farm 7 miles north, 1 mile west of

DEERFIELD, KANSAS, SATURDAY, NOVEMBER 21

Sale at 12:00 Noon

75 HEAD

This good young herd of commercial cows is one of the outstanding ones in western Kansas. All bred to outstanding registered Hereford bulls. Only purebred bulls have been used in this herd for the last 20 years. All calfhood vaccinated. All young. All good. Good instead of big is the way this registered herd has been built. Selling will be some real herd bull prospects, some good rugged range bulls, bred and open heifers and some cows with calves.

Write LEON SCHEUERMAN for catalog

BOWEN BROTHERS SHORTHORNS Sell on Saturday, November 21st, at HOXIE, KANSAS

Sale in heated pavilion at the farm located 6 miles south and 2 1/2 miles west of Hoxie, Kan. SALE AT 1:00 P. M.

SELLING 60 HEAD — (34 Registered, 36 Commercial) 3 Bulls, 31 Reg. Females, 26 Head of Commercial Steer & Heifer Calves

Here is a top set of registered and commercial Shorthorns featuring the most popular bloodlines in the breed and including animals carefully selected as to modern type, conformation and quality. Everything sells Tb. and Bang's tested and fully guaranteed.

For catalogs and other information write:

MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska

Auctioneer: Ernie Sherlock.

Solomon Valley Hereford Association FALL SALE

Mon., November 23, 1953

OSBORNE SALE BARN

OSBORNE, KANSAS



Show at 9:30 A. M.

Sale at 12:30 P. M.

J. A. Schoen, Judge

52 HEAD

25 Bulls—mostly breeding age and also some herd bull prospects. 27 Females—includes bred cows, bred heifers, and also some good yearling heifers that would make good 4-H and FFA projects.

These cattle have been selected from 19 herds in the Solomon Valley area. We feel we have a good selection of cattle. All cattle Tb. and Bang's tested.

CONSIGNORS

Glen Adey, Phillipsburg
J. Harold Carswell, Alton
Verne E. Claussen, Dorrance
Paul Dahl, Webber
Joseph T. Dauber & Son, Bunker Hill
Gene DeBey, Cawker City
G. G. DeBey, Cawker City
Alvin Dortland, Gorham
Jos. M. Dortland, Gorham
Paul L. Hadley, Portis

Walter L. Hadley, Portis
Jansonius Brothers, Prairie View
Walter J. Johnson, Gaylord
Wayne Kaser, Osborne
Lockhart Hereford Farm, Osborne
Armin Meitler, Lucas
Rein Brothers, Russell
Schneider Hereford Ranch, Stockton
W. W. Ulin, Hunter

For catalog or hotel reservations write

J. Harold Carswell, Alton, Kansas, Sale Mgr.

Osborne is located on Highways 24 and 281. Also on Missouri Pacific and Santa Fe Railroads.

Polled Hereford Sale November 21, 1953

at PLAIN VIEW FARMS located 5 1/2 miles south of

ENTERPRISE, KANSAS

70 Head to Sell — 60 Lots

10 Cows and 10 Calves at side

10 Bred Heifers, 20 Open Heifers, 20 Bulls

The bulls and heifers that sell are sired by these bulls—PVF Beau Advance, and his sons; PVF Advancemore 9th, PVF Advancemore 7th and PVF Advancemore 6th.

Cows with calves at side are bred to the above bulls.

A few 4-H Steers will be sold.

Barbecued Beef will be served at noon.

PLAINVIEW FARMS

Write for catalog to

JESSE RIFFEL & SONS, Owners, Enterprise, Kan.

Bernie Hart, Auctioneer

The Greatest Gasoline Development in 31 Years

New Conoco Super Gasoline with TCP*



Boosts power as much as 15%! Increases spark-plug life up to 150%! Gives you extra gas mileage, too!

Here's the most revolutionary advance in motor fuels since the introduction of tetra-ethyl lead in 1922—new Conoco Super Gasoline with TCP, brought to you by special arrangement with Shell Oil Company. TCP is Shell's trademark for the remarkable additive originally developed for aviation fuels.

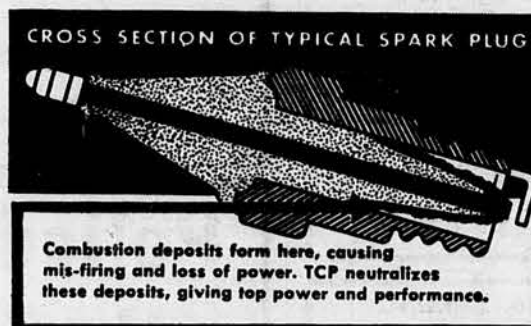
Now you can actually enjoy the benefits of an engine tune-up by changing to new Conoco Super Gasoline. Chances are, by the time you've finished your second tankful, you'll *feel* the increase in power. And you'll *keep* that extra power as long as you use Conoco Super.

For Conoco Super with TCP is a *new kind* of gasoline. It overcomes the greatest single cause of power loss affecting most of the cars on the road today. Now, you can enjoy *all* the power that was built into your car.

Why you need Conoco Super Gasoline with TCP

In the average automobile, the by-products of fuel combustion constantly build up deposits on spark plugs and in combustion chambers. These deposits can "cheat" you of power in two ways. *First*, they short-circuit your spark plugs. This causes mis-firing. *Second*, deposits in the combustion chamber get red hot and cause the fuel to ignite before it should. This is called pre-ignition or "wild ping." The effect of fouled spark plugs and pre-ignition is a loss in power and a waste of gasoline.

*Patent applied for by Shell Oil Company



How TCP works

TCP is a special chemical additive which is added to Conoco Super Gasoline. It was specifically developed to overcome the loss of power and fuel caused by combustion deposits. TCP neutralizes harmful deposits on spark plugs—your plugs spark as they should. It prevents deposits in the combustion chambers from causing pre-ignition—"wild ping" is controlled. Thus, every time you fill up with new Conoco Super, it's like getting your spark plugs cleaned and your engine tuned-up.

TCP helps your car, whether new or old

If you are driving a new car, with a high-compression engine, you need Conoco Super Gasoline to keep your car delivering all the power that was built into it. It will actually increase spark-plug life up to 150%. If you drive an older car, with tens of thousands of

miles on the speedometer, Conoco Super can restore much of the "new car" performance and power you've been missing.

Yes, a great new era in motoring is here for you. Drive into your Conoco station today and fill your tank with new Conoco Super Gasoline with TCP. You'll *feel* the difference by the second tankful!

Questions and answers about New Conoco Super Gasoline with TCP

Q. What is TCP?

Answer. It is a cresyl compound, originally developed for aviation gasoline and used with great success in both military and commercial aircraft.

Q. Has TCP been tested?

Answer. Yes, for millions of miles, in all kinds of cars, under all kinds of driving conditions.

Q. What does TCP do?

Answer. It overcomes the power loss caused by deposits on spark plugs and in combustion chambers.

Q. What does TCP do for new cars?

Answer. It helps them keep their original power.

Q. What does it do for older cars?

Answer. It's like cleaning your spark plugs and getting a motor tune-up. You'll get back much of the power you're now missing.

Now — at your Conoco dealer!

NEW CONOCO Super GASOLINE



© 1953, Continental Oil Company