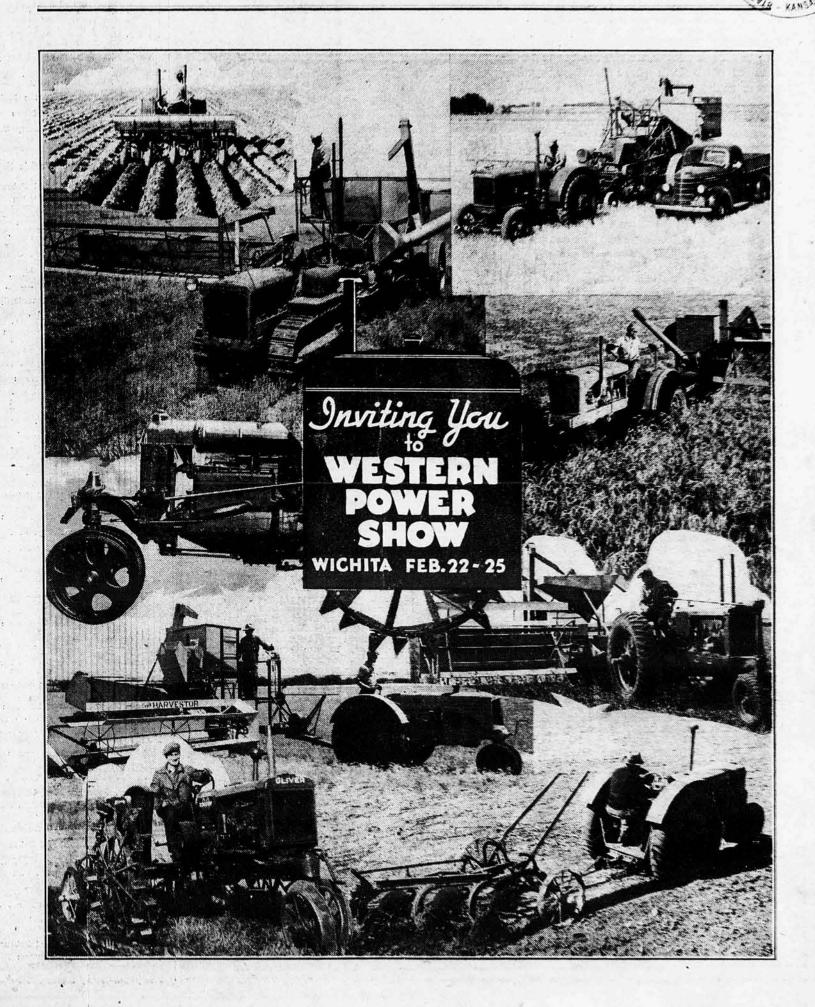
KANSAS FARMER MAIL & BREEZE

Volume 75

February 12, 1938





ONLY the patented Firestone Ground Grip Tires have the following advantages:

Iriple-Braced Iraction Bars provide more positive traction under all soil conditions and do not break, bend or tear off as so often happens in other tires where bars are not supported.

52 to 89 Extra Inches of traction bar length give more earth-biting power for greater pull.

32% Greater Lurface Contact in each revolution of the wheel distributes the load over greater area of tire. This gives increased pulling power and longer wear.

21% Hatter Iread gives greater shoulder traction to bite into soft soil.

Smoother Riding is made possible where all triple-braced traction bars are joined together, and form one continuous surface in contact with ground or pavement. Bumping on hard surfaces occurs where the rubber bars are disconnected like the lugs on steel wheels.

Better Cleaning in all soil conditions is made possible by the scientific arrangement of the spacing between the traction bars.

58% Longer Flexing Life is added by the patented Firestone Gum-Dipping process by which every fiber of every cord is saturated with liquid rubber. This prolongs the life of the tire, protects against penetration of moisture, guards against destructive internal friction, and adds great strength to resist the strain of heavy

Stronger Union between the tread and cord body is guaranteed by two extra layers of Gum-Dipped cords under the tread.

Greater Protection against all weather conditions is provided by an exclusive weather-resisting compound.

SEE your nearby implement dealer, tire dealer or Firestone Auto Supply and Service Store today. Accept no substitute for Firestone Extra Value.

INSIST upon Firestone Ground Grip Tires on your new tractor and farm implements for greater traction and longer life.

Listen to the Voice of Firestone featuring Richard Crooks and Margaret Speaks, Monday evenings over Nationwide N. B. C. Red Network

Harvey S. Firestone Puts the Farm on Rubber

The pioneering spirit of Harvey S. Firestone has made farming more efficient, easier and more profitable. For years he has been working with engineers and technical men on his homestead farm in Ohio, to put all wheeled farm implements, from the wheelbarrow to the combine, on rubber tires. He developed the first practical farm tire and more recently perfected the Firestone Ground Grip Tire, the greatest traction tire ever Tire, the greatest traction tire ever built. This tire enables the farmer to do his work in 25% less time, with greater comfort and with a saving of up to 50% in fuel.

MORE FARM TRACTORS ARE EQUIPPED WITH FIRESTONE GROUND GRIP TIRES THAN ALL OTHER MAKES OF TIRES COMBINED

WIBW Program Schedule

(Daily Except Sunday) Two Weeks Beginning February 12, 193 Two Weeks Beginning February 12, 193

4:55 a. m.—Sons of Pioneers
5:00 a. m.—Roy Faulkner
5:30 a. m.—Alarm Clock Club
5:45 a. m.—Daily Capital News
6:00 a. m.—Interstate Nursery Program
6:15 a. m.—Roy Faulkner
6:30 a. m.—Col. Combs and Ramblers (M. W-F)
6:30 a. m.—Clockerboard Boys (M-W-F)
6:45 a. m.—Clockerboard Boys (M-W-F)
6:45 a. m.—Col. Combs and Ramblers (T. Th-Sat.)
7:00 a. m.—Interstate Nursery News
7:15 a. m.—Scott Powder Program (M. W-F)
7:30 a. m.—Interstate Nursery News
7:45 a. m.—Gospel Singers
8:00 a. m.—Unity School
8:15 a. m.—Gloson News
8:30 a. m.—Hymns of All Churches—Betty
Crocker
8:45 a. m.—Betty and Bob 8:30 a. m.—Hymns of All Churches—Betty
Crocker

8:45 a. m.—Betty and Bob
9:00 a. m.—IGA Program (M.-W.-F)
9:15 a. m.—Myrt and Marge
10:30 a. m.—Protective Service—KANSAS
FARMER
10:40 a. m.—Weather Bureau
10:45 a. m.—Judy and Jane
11:00 a. m.—The Party Line
11:15 a. m.—Dinner Hour
12:00 Noon—H. D. Lee News
12:15 p. m.—KANSAS FARMER MARKETS AND FARM NEWS
2:15 p. m.—Baily Capital News
2:15 p. m.—Harris Goar's Street Reporter
2:30 p. m.—Kansas Roundup
3:30 p. m.—Kansas Roundup
3:30 p. m.—Kansas Roundup
3:30 p. m.—Edmund Denny
4:00 p. m.—Bally Capital News
5:45 p. m.—Edmund Denny
4:00 p. m.—Marris
Butler
5:30 p. m.—Daily Capital News
5:45 p. m.—Jack Armstrong
10:00 p. m.—Joe Nickell—Daily Capital
News
10:15-12—Dance Music Highlights of the Week's Schedule Sunday, February 13 and February 20 Sinday, February 13 and February 20
8:00 a. m.—Wings Over Jordan
8:30 a. m.—Aubade for Strings
9:00 a. m.—Reading the Capital Funnies
9:30 a. m.—W. Brown—Strings
10:00 a. m.—Weather Reports
10:05 a. m.—For Mother and Dad
10:30 a. m.—Major Bowes Family
11:00 a. m.—Major Bowes Family
11:00 a. m.—First Methodist Church
12:00 Noon—Moods in Song
12:15 a. m.—Pacific Paradise
12:30 a. m.—The Sunday Players
12:30 a. m.—The Sunday Players
1:30 p. m.—Boris Morros String Quartel
1:30 p. m.—Dr. Christian
2:00 p. m.—N. Y. Philharmonic Sym-2:00 p. m.—Dr. Christian
2:00 p. m.—N. Y. Philharmonic Symphony
3:00 p. m.—Father Coughlin
3:30 p. m.—Elfa Safety Program
4:10 p. m.—Elfa Safety Program
4:15 p. m.—Hollywood Brevities
4:30 p. m.—Matinee Melodies
5:00 p. m.—Christian Science (Feb. 13)
5:00 p. m.—Christian Science (Feb. 13)
5:00 p. m.—The People Speak (Feb. 20)
5:15 p. m.—Eventide Echoes
5:30 p. m.—Daily Capital News
5:30 p. m.—Daily Capital News
5:45 p. m.—Wilba Players
6:15 p. m.—This Rhythmic Age
6:39 p. m.—SENATOB CAPPER
6:45 p. m.—Aristocrats of Swing
7:00 p. m.—The People's Choice
7:30 p. m.—Exaches of 1939
8:00 p. m.—Ford Sunday Hour
9:00 p. m.—Harmony Hall
9:15 p. m.—Emahizer's Melodies
9:30 p. m.—Skelly Court of Missing Heiss
10:00 p. m.—Joe Nickell—News
10:15 p. m.—American Legion
10:30-12 p. m.—Dance Music Monday, February 14 and February 21

Right

exhibit

ng Equ Wing.

neric

Of co

red

ew-far orsefle as this

lmost Here

ew mo

ifferen nd ins

cularl

le use

ceive

This

Ppears rest

ce ir

aplem

s bee

Monday, February 14 and February 21
6:45 a. m.—Checkerboard Boys
7:15 a. m.—Scott Powder Program
9:00 a. m.—IGA
7:00 p. m.—Marling Forum of Public
Opinion
7:15 p. m.—The Crime Patrol (also 8:45
and 10:15)
7:30 p. m.—Pick and Pat
8:30 p. m.—Fick and Pat
8:30 p. m.—K P & L Musicale
9:00 p. m.—Lady Esther Serenade

Tuesday, February 15 and February 22

Tuesday, February 15 and February
6:00 p. m.—Emar Nothing Ranch Folks
6:30 p. m.—Emailzer's Melodies
6:45 p. m.—Pentecostal Tabernacle
7:00 p. m.—Edward G. Robinson
7:30 p. m.—Al Joison's Show
8:09 p. m.—Watch the Fun Go By
8:30 p. m.—Camel Caravan (Feb. 15)
8:30 p. m.—Cordell Hull (Feb. 22)
9:30 p. m.—Phillips Poly Follies

Wednesday, Feb. 16 and February 23

**Reference of the control of the co

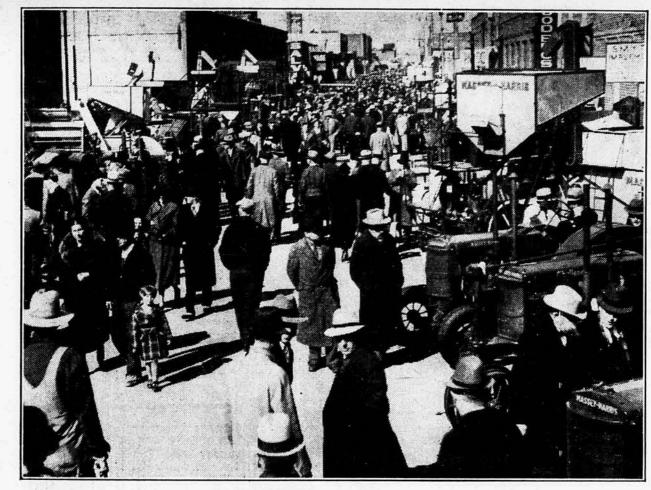
Thursday, February 17 and February 24

6:00 p. m.—Bar Nothing Ranch Folks 6:30 p. m.—We, the People 7:00 p. m.—Kate Smith 8:00 p. m.—Major Bowes Amateurs

Friday, February 18 and February 25

6:45 a. m.—Checkerboard Boys
6:15 a. m.—Scott Powder Program
6:15 p. m.—Marling Forum of Public
Opinion
6:30 p. m.—Concert Orchestra
6:45 p. m.—Chevrolet Musical Moments
7:00 p. m.—Hammerstein's Music Hall
7:30 p. m.—Paul Whiteman
8:00 p. m.—Hollywood Hotel
9:00 p. m.—Coca Cola Songshop

Saturday, February 19 and February 26 6:00 p. m.—Bar Nothing Ranch Folks 7:00 p. m.—Kansas Roundup 8:00 p. m.—Prof. Quiz 9:00 p. m.—Lucky Strike Hit Parade



Right: Tractor Row during the 1937 show when 100,000 visitors milled about the exhibits. Virtually every type of farm machinery again will be displayed this year with an even larger crowd expected from all over the Middlewest.

What's New in Farm Power

Four-Day Exhibition of New and Improved Models Will Stress Efficient Service to Agriculture FEB 17 1938 E MANHATTAN SOLE

By ROY R. MOORE

EEK after next—February 22-25 to be exact—Wichita will be capitol of the power farming world. For in that 4-day period Western Tractor and Power Farmg Equipment Show will be on in full There is nothing else like it in erica-or in the whole world for at matter.

Of course, a tractor show in itself is othing new. They had them at scated points in Kansas long before thought ever was given to the W-fangled contraptions supplanting seflesh. But the big Wichita show as this distinction. It is the only one st national in scope.

Here most of the big implement comes exhibit for the first time their models; here the presidents, viceesidents and sales managers of the ifferent companies appear personally nd inspect their wares. They are parcularly interested, of course, as to how users of power farming equipment leive their new creations, for usually re than 100,000 farmers from over nsas and Northern Oklahoma at-

and the big how.
This year, the Western Power Show Pears to have had more early in-fest than ever before. For many ks, Fred G. Wieland, secretary of Western Thresher and Tractor lub which is sponsoring the show, as been virtually out of desirable ace in the Forum, which in addition Tractor Row, houses the exhibits. a matter of fact, it has been almost possible for the representatives of Applement manufacturers to obtain warters in Wichita hotels, so great as been the demand for reservations. The Western Power Show, without tremendous amount of publicity, 's about the same relation to the

power farming industry as do the Chicago and the New York Automobile Shows to the motor car industry. Thousands of farmers yearly wouldn't miss this big event for anything short of some great catastrophe. In fact, this show vies with the great state fairs in attendance and general interest.

About everyone agrees that Wichita is the heart of the power-farming industry. For in this area power farming was born. Gradually this new method of farming spread in all directions, just like ripples when a rock is thrown in a pond, until it has reached from coast to coast with varying degrees of intensity. It is entirely natural, there-fore, that a national power show should be held near its birthplace.

Use of the Forum to house many of the exhibits at present is largely due to the fact that Tractor Row, the official title for South Wichita Street, doesn't have room for all the companies that co-operate. In fact, there is quite a story in this development of Tractor Row. The thoroughfare is bordered on either side for several blocks with farm equipment distributors and dealers and has had this unique distinction for many years, even back in the days of horse-drawn equipment when the present Kansas metropolis was a small

The story of Tractor Row, the Wichita Thresher & Tractor Club, Inc., sponsors of the annual tractor show and the show itself, is woven around the Wichitan, Fred G. Wieland, the first and only boss of the show.

It started 30 years ago when a thresher and tractor club was formed

and Wieland was chosen as manager of the show. The real story is woven around tractors, altho with the present trend toward speed for farm equipment, road and industrial machinery and tractors seem to be almost synonymous.

There was a time when implement men argued whether the tractor was to play an important part in farming or would be only a temporary "play-thing." Farmers themselves entered the discourse. When a puffing tractor appeared on a farm, neighbors talked about the new-fangled thing, and arguments waxed hot. Old Dobbin was serenely grazing in the pasture, not worried about his importance in the agricultural picture, for the first tractors were nothing to brag about.

During the exhibits in 1923 and 1924,

several inquiries for exhibit space were received from road and industrial machinery concerns, and the tractor show adopted a brother affair, the Road Show and School which has been held in Wichita every year since 1925, ex-

cept two.
Wieland has been the closest observer of the change in the past 35 years. Machinery sold in the early days was mostly horse-drawn or steam propelled engines and threshing machines. But today the show embodies everything ultra-modern in the farm equipment and industrial fields.

It goes without saying that you are cordially invited to visit the Western Power Show. Maybe a one-day visit won't satisfy you. Come back the next day. Bring the family and see every-thing. There is no admission charge.

Chisels His Hard Pan

A number of farmers in Southwestern Kansas have been selected by the Soil Conservation Service to do demonstration work on their farms. One of these is B. W. Parsons, Stevens county. Mr. Parsons has a "plow pan" or hard pan in his heavy soil, the same as most farmers in his section of northern Stevens county. When row crops are listed on wheat land, the seed lies on top of this pan and the plants never do well because the roots don't seem to penetrate it. For this reason Mr. Parsons is planning to try using a chisel. The chisel is an aid to storage of rainfall too. Contour farming and terracing are major practices Mr. Parsons will take up in his demonstrations of soil conservation.

Men Who Boss Big Show

President—F. R. Brooks, J. I. Case Co. Vice-President—G. G. Hampton, Wood Bros. Thresher Co. Secretary-Treasurer—F. G. Wieland, Tractor Club

DIRECTORS

F. R. Brooks, J. I. Case Co.G. G. Hampton, Wood Bros. Thresher Co.F. G. Wieland, Tractor Club

R. W. Waln, John Deere Plow Co. G. C. Dunn, The G. C. Dunn Tractor Co.

C. W. Davis, International Harvester Co.

E. L. Kirkpatrick, Allis-Chalmers Mfg. Co.

W. J. Easton, Phillips & Easton Supply Co. S. S. Smith, Minn-Moline Power Implement Co.

E. H. Schroeder, Oliver Farm Equipment Sales Co.

H. A. Smythe, Smythe Implement Co.

Another Flood of War Propaganda

Passing Comment by T. A. McNeal

WILL say frankly that I am alarmed over the situation in the Orient. There are tremendous

forces which seem bound to drag us into war.
The country is being flooded with propaganda calculated to stir up the war spirit. In addition to appropriating more than four times as much for the army and navy as were appropriated in any year prior to the time we got into the World War, the President is asking for an extra appropriation of 800 million dollars to build new battleships. He is asking that the army be made three times as large as it ever has been before in peace time. In short we are to become one of the most strongly militarized nations in the world.

The people of the United States who are more than 40 years old, will recall the widespread and exceedingly skillful propaganda that was fed to the people in 1917, to reconcile them to going to war, especially a foreign war. The propaganda followed three general lines. One line was building up a na-tional feeling of hate toward Germany and the German people. This was accomplished by publishing gruesome stories about German outrages. Most of them, as we know now, were false. The original au-thors of these stories knew that they were false but they did not hesitate to publish them just the same. We, over here, read them and believed them. Our indignation was stirred to the depths, until we came to believe it was our duty to destroy the barbarians who were guilty of such inhuman cruelty.

The second line appealed to our national pride.

The German submarines had sunk, not only the Lusitania with a great many American passengers, but they had sunk several other American ships. They had interfered with our right to sail on the high seas. Should we stand for this unlawful interference with our rights? Certainly not!

The third line of propaganda appealed to our idealism. We would engage in a war to end war, and to make the world safe for Democracy. That seemed to President Wilson like a noble purpose. I think he was entirely sincere in this belief.

So public sentiment was created. Our long-time reluctance to engage in war was broken down and we became, for the time being, war-mad.

We organized in an almost incredibly short time an army of 5 million men. We actually sent across the ocean more than 2 million men. Nearly 150,000 of the 2 million were left over there sleeping their eternal sleep in the soil of France. We spent more than 40 billion dollars and contracted obligations for the future which will not be paid in a hundred years. We lent our allies 10 billion dollars and have received for the loan only the hatred of those we

We discovered, when it was too late, that we had been deceived by skillfully framed lies. The war to end war was the prelude to general armament to an extent never equaled in the history of the world, and every year since the close of the great war has been marked by brutal and bloody conflict.

Instead of making the world safe for Democracy,

the trend toward Democratic form of government in Europe was reversed and there is less of popular rule than there has been for a hundred years. The world was almost bankrupted and credit was nearly destroyed. When the delirium was passed and we had time to sit down and take stock calmly, we discovered that not a single thing we had set out to ac-complish had been accomplished, and all over the United States men and women were saying "never

But here we are fewer than 20 years away from the end of that devastating conflict and again we are being fed with war propaganda. Japan is represented as a most brutal nation. It has attacked China without cause and scattered its death bombs

More or Less Modern Fables

AN INDOLENT young woodpecker, which had been sent out by its mother to gather some provender for the family table, was found by its industrious parent sitting on a limb listlessly eyeing a place where a borer seemed to have entered. When his mother asked him what he was doing, the young woodpecker answered that he was waiting for the grub worm to come out of the hole so that he could catch it. Whereupon the mother woodpecker said impatiently: "My son, if you sit around waiting for grubs to come out of their holes you will have a mighty lean time of it in this world, I fancy. If you want that worm, you will have to get a move on yourself and dig it out."

The Flower Lady

By ED BLAIR Spring Hill, Kansas

"How can you have such beautiful flowers?" Often they ask of her. The one they smile for, in sunshine and showers To the days when the wintry winds stir. "And, even then, when the sun can peep thru Sweet flowers bloom a sweet welcome to you!"

Her Answer

"How do I grow them?" 'Tis play, not dull work Planting and seeding the bed I may be weary but there is no irk For I am dreaming ahead-And I'll know soon with a thrill of delight How much each flowerlet grows in one night!

"Yes, there are pests and sometimes a freeze Ere the first flowers unfold I cover-uncover-for tender are these Pinks, reds, blues, lavenders, gold And all the colors a season may last Prized more each day till the season is past!" (Copyright, 1938)

over helpless women and children. I have no doubt these charges are true, but we cannot undertake the job of policing the world. Neither have we the slightest assurance that our participation would reduce the horrors of the present war raging in the Orient. It would, in all probability, involve us in other wars even more terrible than that now raging

It Is Everybody's Sales Tax

S THIS is being read the legislature is in special A session, considering possible amendments to the sales-tax law. There is no question that is of more general interest than this sales tax. It is one tax to which everybody contributes something, for anybody who buys anything to eat or wear must pay as sales tax. I start with the assumption that the present sales tax rate will not be changed by this legislature. The only questions that will be discussed in all probability will be the allocation or distribution of the tax when collected.

This brings up the interesting questions, first, how much will the sales tax amount to for the year, and how has it been distributed so far?

and how has it been distributed so far?

I am indebted to a detailed report prepared by the former head of the Kansas relief organization, John Stutz. He makes the estimate of tax that has been or will be collected during the first 10 months of the operation of the law. For these 10 months there has been or will be allocated to social welfare \$2,430,000; to school equalization \$2,115,300 and to property tax relief \$4,000,000.

Now let us look at the law concerning social welfare and refresh our minds concerning the distribution of the sales tax. The law provides for a "state board" and "county boards." It also provides for a "state director" and "county directors." It does not provide for an "old age pension" but does provide for old age "assistance." It provides for the collection of a sales tax of 2 per cent on "all sales of tax tion of a sales tax of 2 per cent on "all sales of tangible personal property for use or consumption and not for resale, or supplying electrical energy, gas, water, service or entertainment, except wholesale sales."

The law provides for assistance to persons who have resided continuously in Kansas for 1 year preceding their application for assistance, who (1), have not sufficient income or resources to provide a reasonable subsistence compatible with decency and health; (2) who are not, at the time of receiving assistance, inmates of any public institution; (3) to any needy aged person who has attained the age of 65 years; (4) to the needy blind; (5) to the assistance of dependent children who have been born in the state or who have lived in the state for 1 year or whose mothers have lived in the state for 1 year.

The distribution of the welfare funds is made thru the county boards of commissioners who shall appoint county directors and assistants who shall investigate the applicants for assistance. The money collected from the sales tax shall be deposited in the

state treasury, and after deducting not to exceed 3 per cent for cost of administration of the law, the remainder shall be distributed as follows: First, not to exceed \$2,400,000 per annum for social welfare purposes, and a sum not to exceed \$200,000 for use with the crippled children commission; third the sum of \$50,000 on the first day of July 1937, and the sum of \$60,000 on the first day of July 1938, and a like amount on the first day of July every year thereafter, for the employment service; and fourth the sum of \$2,500,000 to the state school aid fund; \$0 per cent of the balance, if any, to the county treasurers of the several counties of the state.

Act

und

pen

tha

Nat

tion

pri

mu

per C

ins

the

cha

ins

mo

ste

cat

pra

the

pro

The language of the law is complicated and difficult to understand, but it will work out I think in this way. The federal aid in old-age assistance is limited to \$15 a month to the person. Now suppose a county decides to pay in the way of old-age assistance to persons of 65 and over \$30 a month. The government would contribute \$15, the county would contribute \$10.50 a month and the state would contribute \$4.50 a month. In the case of the blind the Federal government would only contribute onethird of the total allotted by the county.

After making these distributions, if there is a balance left in the sales tax fund the counties will get 80 per cent of it and this may be applied to reducing the taxes of the counties.

Now, let us go back to the statements made in the Kansas Government Journal. It estimates that during the next tax year, which will begin on July 1, 1938, there will be distributed by the several countries of the several countries. ties of the state for social welfare \$3,020,000; for school equalization, \$2,115,300 and for property tax relief \$6,000,000. Mr. Stutz, who prepared the figures for the Kansas Government Journal, estimates that this will mean in general tax relief in 1938, 6.69 per cent and in 1939, \$10.04 per cent.

The legislature is not in session as I write this and therefore I can only guess what it will do. There is ample opportunity for dispute and disagreement. There will be a clamor for increased old-age assistance and the establishment of an old-age pension system instead of old-age assistance. At present the average payments in the way of old-age assistance averages about \$19 a month. There will be an ance averages about \$19 a month. There will be an insistent demand that this be raised to a minimum of \$30 a month of which the Federal government would pay half. That in turn would mean that the amount allotted to the payment of old-age assistance or pensions, which ever it may be called, will have to be increased by a little more than 50 per cent. In other words, instead of \$3,020,000 which Mr. Stutz estimates will be paid out next year under the present plan, something over \$4,500,000 will be paid, and that will mean instead of the property be paid, and that will mean instead of the property tax being reduced by 10.04 per cent, it cannot be reduced more than 7 per cent.

The schools are not going to give up a part of the

aid they now are receiving. On the contrary they will ask for more aid and if they get what they ask it must, of course, be taken from the amount rebated to the counties in the way of property-tax relief. I see the making of quite a beautiful scrap. The hair may be flying before this is read.

THE KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER MARCO MORROW Assistant Publisher H. S. BLAKEBusiness Manager

| DOLLOWING DIME |
|---|
| T. A. McNeal Editor |
| Raymond H. Gilkeson Managing Editor |
| Tudor Charles |
| Ruth Goodall |
| J M. ParksProtective Service and Capper Clubs |
| H. C. Colglazier Short Grass Farm Notes |
| Dr. C. H. Lerrigo |
| James S. Brazelton |
| Mrs. Henry Farnsworth Poultry |
| T. A. McNealLegal Department |
| |

Published every other Saturday at Eighth and Jackson streets, Topeka, Kan. Entered at the post office, Topeka, Kan., as second-class matter, under act of Congress of March 3, 1879.

Please notify us promptly of any change in address. No need to miss a single issue of Kansas Farmer. If you move, just drop a card, giving old and new addresses, to Circulation Department, Kansas Farmer, Topeka, Kan.

One year 50 cents; three years \$1.

Farm Matters as I See Them

Farm Homes Are Included

OVERNMENT insurance of private loans for residence construction and repairs is available to farmers, under a provision inserted by the Senate in the National Housing Act recently passed by Congress.

Briefly, this act provides that the Federal government will insure mortgages made by a private lending agency on a farm property, "provided that the construction and repairs to be undertaken on such farm shall involve the expenditure for materials and labor of not less than 15 per cent of the total principal obligation of said mortgage."

There are certain limitations before any farm mortgage is subject to such insurance by the National Housing Authority. Start on construction or repairs must be begun after the enactment of the 1938 law; or after January 1, 1937, prior to its enactment. The mortgagor must be the owner and occupant of the property, and must have made at least a down payment of 10 per cent of the appraised value.

On a property appraised at \$6,000 or less a mortgage up to 90 per cent of its value can be insured. The base interest rate is 5 per centthe Housing administrator can require as high as 6 per cent in areas where he considers this advisable-plus 1/4 per cent a year insurance

Mortgage loans protected by this government insurance to the lender are to be paid off in monthly installments, over a period of not to exceed 25 years. The interest is to be computed on the unpaid balance after each payment, instead of on the face of the note. This would indicate that the interest rate will not exceed 61/4 per cent.

For farm mortgages on property with ap praised value of between \$6,000 and \$10,000 the mortgage insurance goes to only 80 per cent of the valuation, and the premium may be anywhere between 1/2 and 1 per cent.

Loans in larger amounts may be insured on apartments and grouped residences, but as I read the act these are not available on farm properties.

I think the farm loan provisions may be of benefit to some farmers. It is hoped that the act will encourage private lending for building construction on a large scale, especially in the larger cities. It should be noted that this act does not call for Government lending, nor for placing the Government in the money-lending business. The Government simply offers to insure mortgages made by private lending agencies for residence construction and repair purposes. I was very strong for the Housing Act, gave it my support and vote, both because of the possibilities in it of reviving the building construction interest, and its promise of lower interest rates on farm and city mortgages of this type.

Small Business Must Prosper

THE metropolitan newspapers poked a good deal of fun at the "Little Men of Business" conference in Washington last week. It was rather ludicrous, on the surface of things, to see several hundred men all trying to talk over one microphone in a convention hall. But I found more to think about than to laugh about in that meeting.

The continuance of our Nation as a representative Democracy depends in large measure, as I see it, upon whether or not the family-sized farm and the small independent business man continue to operate profitably within our economic structure. Both are in a bad way at pres-

From what I learned of the convention, the small business men of the country are afraid of monopolies and centralization of business control in too few hands. They also are distrustful of the New Deal remedies that lead to too much centralization of governmental power in Washington and Washington bureaus.

I am strong for the small independent business man. He faces many troubles similar to those of the farmer, who as a matter of fact also is a small, independent business man, in a business that requires even broader activities than many lines of merchandising.

Lenient Collection Policy

WAS glad to get word from the Farm Credit Administration the other day that it intends to pursue a lenient policy in collection of Farm Commissioner loans, and also in handling Land Bank loan collections. These loans, you may remember, were authorized in 1933, to take care

of distressed farmers who could not borrow money from any other source, even from the Federal Land Banks.

"We realize, of course, that in some cases because of adverse climatic or economic conditions, Federal Land Bank and Land Bank Commissioner borrowers will be unable to meet the terms of their mortgage contracts. However, the banks have power to grant assistance in worthy cases in which the borrowers cannot carry their

The FCA, however, is opposed to general deferment of payments in any particular area, on the grounds it would only result in deferment of payments by many farmers who are in position to meet their obligations.

"We, therefore, believe that it is a sound policy to consider each case on its individual merits and to extend such assistance as appears warranted, rather than to take any blanket action which would effect all loans regardless of whether the borrower is able to meet the terms of his contract.

"In other words, where a borrower is temporarily in distress by reason of a crop failure or some other condition which is not likely to continue, a short term extension of the delinquent items may be justified and may best meet his need.

"If, however, a study of the case develops that the semi-annual installments on the loan as written are heavier than the income from the farm can normally carry, the entire loan may be extended over such period of time as appears reasonable and necessary for its orderly repayment."

For myself, I wish to add that if conditions later in the spring make it necessary, I will go beyond the policy laid down by the Farm Credit Administration, and support legislation for general deferment. In the meantime, I would suggest to those unable to meet their payments, that they get in touch with the secretary-treasurer of the local national farm loan association handling the loans, and discuss the matter in detail. And let me know how you come out.

Washington, D. C.

From A Marketing Viewpoint

By HOMER J. HENNEY

Trend of the Markets

Please remember that prices given here are Kansas City tops for best quality offered:

| " - Factoria | Week Ago | Month Ago | Year Ago |
|----------------|-------------|--------------|-------------|
| Steers, Fed | \$ 8.75 | \$ 9.25 | \$10.75 |
| Hogs | 8.75 | 8.40 | 10.00 |
| tainbs | 7.50 | 7.90 | 10.15 |
| Hens, Heavy | .20 | .19 | .14 |
| eggs, Firsts | .1714 | 21 | .20 |
| putteriat | .29 | .30 | .31 |
| Wheat, | | | |
| Hard Winter | 1.02 | 1.04 | 1.44% |
| Corn, Yellow | .5614 | .60 | 1.201/4 |
| Vats | .32% | .341/2 | .58 |
| Darley | .65 | .66 | .96 |
| Allalla, Baled | 24.00 | 25.00 | 22.00 |
| Prairie | 12.00 | 8.50 | 14.50 |

(Probable changes in feed and carrying costs have been considered in forming conclusions.)

Would it be a good time to buy steer and to be a good time to only steer and heifer calves or would you buy stock cows ready to calve this spring? I have lots of roughage and plenty of grass this coming summer.—R. W., St. Joseph Mo. St. Joseph, Mo.

About 7 chances out of 10 choice White Face steer calves bought on the breaks between February 1 and February 23 will show a profit above feed and grass costs if handled on a modified deferred feeding program so that you could sell in December of 1938 if

conditions on August 1 indicate that will be better than the October market. The odds on the heifer calves drop down to 6 out of 10 for reasons given by personal letter. The chances are only 3 out of 10 that your cow deal at present prices would be as profitable by November 1 as the calves. Stock cows at present prices are like dynamite if fat steer values follow the trend unexpected for the next 6 to 8 months. unexpected for the next 6 to 8 months.

I have feed and pasture. Would you buy straight back thin cows to put on grass and sell in September or would you buy 800 pound feeder steers at present low prices?—H. K., Abilene.

No, about 3 chances out of 10 either of these programs will pay expenses by early fall. If, however, the February break turns out to be worse than I have been indicating, you might get your feed and grass back if you buy these heavy feeders cheap enough. You will have to decide that, when the breaks come in February. Cattle prices are not due to advance much until late 1938 and not then unless 1938 corn production is reduced and business conditions are improving. Since neither of the programs are suitable I would suggest either cheap cattle for a short turn in order to use up the feed and then rent the grass, or buy in late spring for your grass or better yet, buy choice calves now, and keep them as long as necessary in order to get out. In either event don't overstock.

This is no time to overbuy even tho it is much safer than it was a few months

I have some lambs on feed that could be fed quite a while yet from the weight standpoint if market justifies. Should I crowd on feed or fool along?—F. S., Newton.

About 8 chances out of 10 you will be better off to carry along as long as you can. You should be better off than you can. You should be better off than you would be by selling now and you will have used up more feed. You certainly will be better off than selling on the distress price level here in February and early March. In this type of year the spring peak is shoved over later than usual as some finishers hang and to their feeding lambs until weight on to their feeding lambs until weight forces them into the market.

I have plenty of corn. When would you buy stock pigs and for what market would you head?—E. K., Ionia,

About 4 chances out of 10 you can About 4 chances out of 10 you can show a profit if you buy stock pigs at present prices (9-10 cents under 60 pounds) and if you figure your corn at 50 to 60 cents a bushel. The primary trend is downward on hogs but of course the July price should show a favorable ratio. What if it doesn't? What can you do? Sow and pigs can be juggled around, sold, kept, part sold, and what not. The pigs are risky.

If my opinion about July is correct then you are all right but by using your corn in a breeding or growing out program I can adjust your mar-keting program in April so as to sell at some other spot in case I am going to be wrong about July. To expect to sell on a hot spot at the seasonal peak in March or April is too speculative in in March or April is too speculative in this type of year.

MATTAHMAM

VIS - KANSAS

Do you have a marketing question you would like to have answered in this department? It is a free service to subscribers of Kansas Farmer. Simply give as complete information about your problem as you can, and mail your letter to Department R. H. G., Kansas Farmer, Topeka, and you will get a prompt reply to your questions.

Manure Improves Soil

"One of the best investments I have "One of the best investments I have ever made was in barnyard manure," says M. G. Nickels, who 17 years ago purchased a Jefferson county farm on which he has made his home ever since. For three years, Mr. Nickels spent most of his spare time hauling manure from McLouth, a distance of one-half mile, to his 159-acre farm. The manure from his own stables also was spread on the fields, and as a result, a farm that had lost much of its fertility 17 years ago is today producing good crops whenever moisture conditions are at all favorable.



For centuries the sickle or reaping hook, as it was called, was used to harvest grain. One man could cut from ½ to 1 acre in a hard day's work. The grain later was bound by hand.



A longer handle was put on the sickle to make the scythe, used as far back as in Roman times. A wider swath could be cut, but it still was necessary to rake and bind the grain.

Stealing Old Stuff

The Principles of Today's Streamlined Machinery Were Worked Out Centuries Ago

By CORDELL TINDALL

AN is pretty smart in devising new tools and machines to help him in the business of existing. He always has been. Altho most modern implements, as we now know them, have been perfected in the last 100 years, the principles used in these machines were discovered, one by one, over a period of many centuries. And thereby hang some interesting tales. Primitive peoples naturally used primitive farming implements. In the stone age crude hand tools of stone were developed. From what our experts can dig up, it looks as if these implements at first were sharpened only on one side. A number of tools used in this period have been found, including hammers, chisels, planers,

used in this period have been found, including hammers, chisels, planers, awls, knives, scrapers, borers and axes. Some of these were chipped from stone, others polished, and crude handles of wood, bone or horn attached. Our Indians knew and made many of these tools and they can be found in some of our fields today.

Then some fellow, perhaps a little smarter than the rest, struck upon the idea of a combination tool to do more than one job. This tool had a sharp point for boring and 2 edges for cutting and scraping.

As all primitive people were farmers, they naturally developed a few tools to help them in their work. At first they help them in their work. At first they lived off the land and made no effort to sow and reap. But hard times convinced them that perhaps it was better to establish a home and try to grow something to tide them over the lean periods, such as the winter months. In the Old World they planted the small grain cereals, such as wheat; in the New World it was maize, or corn as we now know it.

grain cereals, such as wheat; in the New World it was maize, or corn as we now know it.

At first a digging stick was used to work the soil. Sometimes it was weighed down by a stone. Then a crude hoe was devised made of a forked branch, then later it was equipped with a blade of stone or bone.

We must keep in mind the difference between a plow and a hoe. A hoe is used with a chopping motion only, while a plow is pulled thru the ground to make a continuous furrow. Just when the plow appeared is not known. It was a sharpened forked branch. It probably was pulled first by man power, altho the use of oxen and horses dates back to prehistoric times.

The oldest known representation of a plow is on an old Babylonian seal impress at the Pennsylvanian University Museum. One man is shown seeding a tube or grain drill they which

sity Museum. One man is shown seeding a tube, or grain drill, thru which the seed was dropped into the furrow. Apparently something like a modern lister.

The Egyptians made good use of the plow. They used animals to pull it, but as human labor was pretty cheap, they sometimes hitched as many as a dozen men to one plow. In Korea a 3-man plow and spade with 2 ropes is used

today. In far-away places primitive plows still are in use. But that's ahead

plows still are in use. But that's ahead of the story.

Just as there is a big difference in a hoe and a plow, so there was a difference in the people who developed the two implements. We might say that in the beginning of time there grew up both a hoe culture and a plow culture, two civilizations based on the use of these two farm implements. The plow culture was that of the Old World, and was closely connected with the use of small grains and draft animals. In the New World, the hoe was used to cultivate maize and there were no draft animals, for it must be remembered that there were no horses in America that there were no horses in America

until the white man came.

We would not dare say that wheat is a greater crop than corn. However, the greatness of the Old World is said the greatness of the Old World is said by many historians to be due to wheat. But we must consider the combination of wheat, the plow, the oxen and horse, and the cart. All of these things may not have originated at the same time but they appeared together in early Egyptian and Babylonian culture. But corn growers can point with pride to the civilization based on maize in Central and South America, and even our Indians were pretty good corn farmers. But because corn needed only a crude hoe to cultivate it no

only a crude hoe to cultivate it no farm implements were invented, so we must turn back to the Old World to continue our history.

We mentioned the cart in connec-

tion with the culture of the Old World. To have a cart one must have at least two wheels. The wheel may be said to be the greatest of all inventions. And like so many other fundamentals of farm machinery, its first use is only a

Man at first carried all his burdens on his own back. But the weak or the lazy discovered that animals could carry their burdens and thus began the great effort thru the ages to "let George do it." The animals on hand, including the horse and the ox, were used for food and sacrificial purposes. The American Indian, having no horse, used dogs as his first beast of burden. Over the world there are a lot of pack animals, donkeys, cattle, camels, and the llamas, of the New World, a cousin of the camel. Man at first carried all his burdens

of the camel.

The next step was that the same lazy man perhaps—and the good that lazy men have done thru the ages always is minimized—found that the horse could drag more than it could carry, thus saving many trips. The sled is a familiar example of this. Also

sled is a familiar example of this. Also the two poles drug by the horses of the Indians, called "travoises."

The next step in transportation was the wheel. The very first wheel, it is thought, was a log, used as a roller to move heavy objects. Then a brilliant mind put pegs on each side of the (Continued on Page 27)



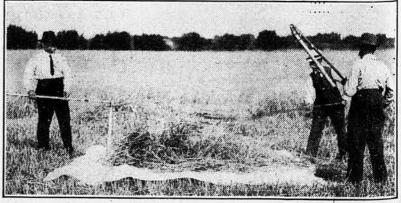
The Gauls, according to Roman reports, had a kind of header-reaper with a sharp blade in front. But it fell into disuse during the Dark Ages and the sickle again was used.



In the 18th century a 1-man reaper, a scythe with a cradle attachment, enabled one man as much as 7 men using sickles. The cradle laid the grain in a neat windrow.

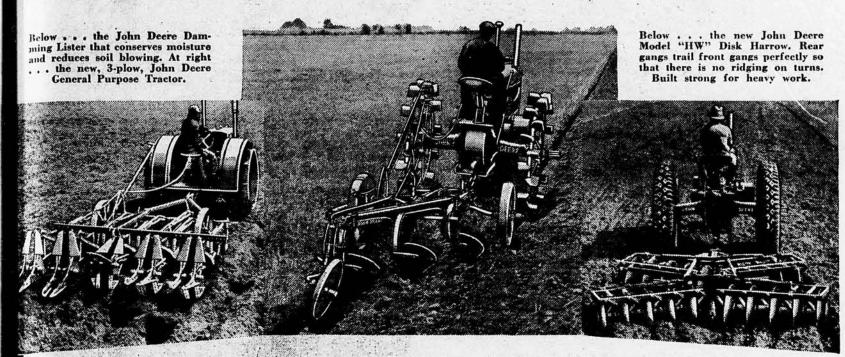


was a problem for the ancients. It was first done by hand, then by trampling with the bare feet. Animals, chiefly oxen, then were used to trample the grain from the hulls. Sometimes they pulled crude sleds over the grain.



The flail was developed during the Middle Ages. After the grain was beaten from the hulls it was separated from the chaff by drapping it in the wind.

.. John Deere Invites You...



to see New and Modern Farm Equipment for 1938

A HEARTY WELCOME awaits you at our display at the Wichita Show which is being held at 439 South Wichita Street. Factory experts will be on hand to answer your questions and point out the quality features of the machinery in which you are interested.

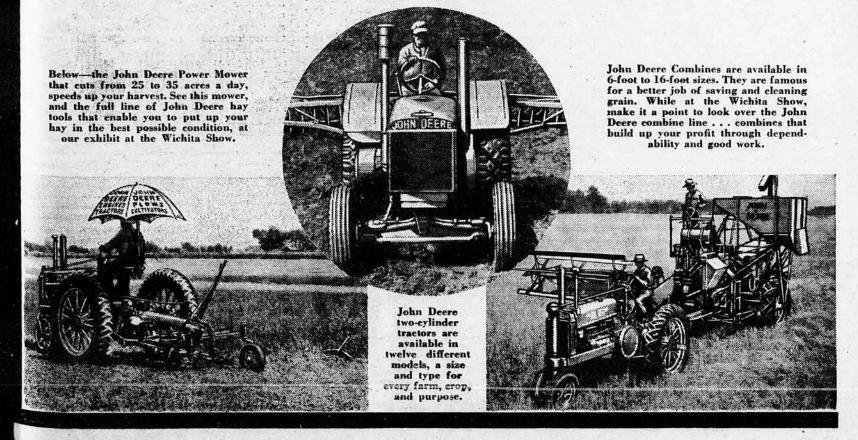
See the new John Deere General Purpose Model "G" Tractor that pulls three bottoms under normal conditions... the new "HW" Harrow with its many new and exclusive features..., the new John Deere Damming Lister that saves moisture... the new John Deere Straw Walker Thresher... new and improved John Deere equipment of all kinds.

Look over the complete line of John Deere tractors

... tractors that pay for themselves through savings in fuel and upkeep expense and by spreading your tractor investment over a longer period of years. Inspect the full line of John Deere combines that do a better job of heading, saving, and cleaning your grain.

By all means, plan to visit our exhibit. You will learn of new and better ways to farm . . . new ways to cut operating costs . . . proved methods of increasing crop yields . . . and you'll enjoy meeting and talking with your friends. If, for any reason, you can't be with us, a letter or post card will bring free, illustrated literature on the tools in which you are particularly interested.

John Deere Plow Co. Kansas City, Mo.





"The old lady sure was an actress."

YEAR ago I wrote a story about my first tractor and since that time I have been the target for considerable comment. At times I feel that my mentality and sound judgment are being questioned for having made the purchase of such a machine. Sober thought and reflection lead me to think that perhaps there was something wrong with my mental equipment about that time, and my only alibi lies in the following facts: The tractor which I bought—bad as it was—was about as good as any of that vintage; and when I consider why I bought it, and what it replaced, I am forced to admit that it wasn't such a bad deal. But thereby

It may be recalled that some 20 years ago there was a bit of a ruckus going on over in Europe which now is referred to as the World War. At the time it was a War to save Democracy, but since then it has developed that it was merely another war after all. In any event, be it what sort of war you may like, it did bring about some rather unique and weird revampings in our economic set-up in this country, and was the cause of a few screwy phrases such as "Raise More Wheat" and "Food Will Win the War," and it brought about the clever and patriotic ideas of Wheatless Days, Meatless Days, Heatless Days and Seatless Days, along with the Gasoline-less Sundays and various other patriotic slogans and catch phrases which were all going to save the universe for future generations.

To encourage the growing of more wheat our gov-

ernment hit on the happy idea of fixing the price of that commodity at \$2.20 a bushel F. O. B., Chicago, and among the suckers who snaped at that bait was the writer. We blessed a far-seeing administration which so boosted the price of our wheat and the price of our wheat and the price of t enabled us all to become wealthy in a single season. The mere fact that wheat was the only item on which the price was so fixed never dawned on us then. If the price of wheat had been allowed to seek its proper level, in comparison with other prices of the things we had to buy, the chances are that we would have been getting \$5.20 a bushel for our wheat.

But even a fixed price of \$2.20 was sufficient to

encourage most farmers to plow up their front lawns and cow pastures and raise their patriotic quota of the staff of life. Today we find our government frantically dishing out hard cash to the same farmers if they will only agree not to grow any wheat, and in that manner get some of these front lawns and cow pastures back into grass and out of the eyes of the effete New Yorkers where they have been blowing in the form of dust storms for the last

Like others of my generation, I was born 30 years too soon. I took up the vocation of farming when the government paid a bonus for working instead of for not working. I must admit that it seemed like a good idea to me at the time so off I went to what looked like a quick and sure-fire way to easy wealth.

I landed in a small western town in a section

which had been blessed with a bumper wheat crop the year before the price had been raised to \$2.20 and there I let it be known that I was in the market for some land and all the necessary equipment with which to operate it. I was not long in being accom-

An old settler who had homesteaded a section near there got to me first and he fixed me up with my land. I say that he fixed me up and I say it advisedly. He certainly did all of that. I never shall forget the way his sweet old wife cried and carried on the day he brought her to the bank to sign the necessary papers which made me monarch of my new domain. She wept as if her heart would break at giving up that farm. One would have thought that I was forcclosing on the place and throwing her out into the cold instead of paying her five prices for it. In later

"Why I Bought a Tractor" w

Anything Was Better Than a Locoed Mare—Another Hilarious Adventure of a Farm Machinery Pioneer

By FRANK MECKEL

years I have come to realize that the dear old lady was weeping tears of joy over getting rid of that dump. But at the time I thought I really had driven a sharp bargain and I was too tough to let a few feminine tears cheat me out of it. That old lady

surely was an actress

Having procured the necessary portion of the Good Earth to go ahead with my project I let it be known that I was looking for a good team of horses. I figured that I was far enough away from New England that I need have no fear of horse traders of the David Harum stripe—but apparently there had been quite a migration westward from New England shortly before I landed. A pack of wolves never gathered for the kill with any more zest than did my future neighbors swarm in on me to see that I got fixed up with a team.

As I have said, a war was on at the time and the

French and Italians were buying artillery horses up at Fort Keogh and prices were high. Almost any brute that could travel on four legs had been shipped or driven up to the fort and offered to the God of War. The procedure up there was first to get acquainted with the French or Italian officers who were doing the buying. This could most easily be arranged over a bottle of "Hell's Delight" at the old Olive Hotel bar at Miles City. By the time the offi-cers were ready to inspect a bunch of horses they would be so cockeyed that a flock of goats could have answered the purpose as well as a bunch of horses. They followed only one rule and that was that they must always reject 40 per cent of the horses offered for sale that day. The accepted animals were driven into stock cars and hustled east for shipment to Europe and the 40 per cent rejected were driven off across the prairie and then driven back again next day and run thru the mill again with a fresh batch. Eventually all the horses were accepted and shipped to the wars. Two-thirds of them had never had a rone on them before had a rope on them before.

T WAS some little time before the truth began to filter back from France that these American Inter back from France that these American-horses were killing more French artillerymen than were the German shells. When the truth did leak out, a new system was inaugurated. When a horse was rejected his right front hoof was branded with a letter R. In case the horse did not have a right front hoof that brended him. front hoof they branded him on some other hoof—but I didn't know of this branding plan at that time. I learned of that later.

I wish that you might have seen some of the animals that were offered to me. Practically every one of them had an R branded on the right front hoof, for may it be said to the credit of these sharpshooters that at least they didn't try to palm off any three-legged horses on me. But they did trot out some remarkable beasts. One chap brought in a span of Indian ponies which he swore roundly would out-

"When he did come back, he was ready to talk trade."

pull any team in the county, and another one wanted to sell me a team composed of an 1,800-pound stal-lion and a 950-pound mare. The stallion had come west with General Custer in 1876, I do believe. welcor

Sales; and Gi son, S Holma and N

Equip of the

Cate Ill., wi hibitio

produce Engin of the E. R. C. M. I

Sales tural

Alli-pany, in the

farm (

dustri

equipr Hulse,

charge H. C.

Rober Jerry Abrah

J. I

and E Kansa

Den

Forum ter sy shown

charge Earl K. A. City E

Rot: City, Reape Baldw

burgh G. E.

vin, E

The Co., I Tongu Forun

Ander

preser

O. Kan.

impler ance; Charle urer, Co., D

Inte

Inte

I finally fell for a team of mares—a long and rangy brown one with just a hint of Clydesdale in her ancestry and a dish-faced gray which had the rear end of a Percheron and the front end of a Cayuse. I was told that the gray was in foal but I couldn't let that deter me since time was short. I put \$400 cash on the line for this pair and then led them around to the hardware store to have them fitted with a set of harness. I may say in passing that the talk about the gray being in foal was a gross exaggeration.

My brown beauty stood quietly by for this opera-tion but the other one must never have seen a horse collar before. She gave two snorts and a couple of



"I landed in a sitting position smack in a patch of cactus pads."

kicks and took off with the snubbing post dragging after her. Some friendly cowpunchers finally caught her for me after several hours and between about 6 of us we got some harness on her and hooked her

to the shiny new wagon.

Things went fairly well for a day or two after that. She would pull well enough until the pulling got tough and then she just flew to pieces. I thought she was just a bit nervous and unsettled at the time. She never quit pulling, but she was too enthusiastic about it. When the load gave promise of sticking, something had to give way. It usually was a doubletree or a tracechain or some other piece of equipment. It would have been cheaper if the mare herself had given way, but she always seemed to come thru whole. She understood going straight ahead but turning and backing up hadn't been taught in the school she attended. When I tried turning her at the end of a row she invariably jumped over the tongue and started kicking and plunging until she had freed herself of all the load and harness and then it took four men and a boy to catch her again.

Y FIRST run-in with her was on a hayrake. I Was raking sagebrush and noticed that she getting fidgety and her head was going higher and higher and her eyes rolling in her head at the turns. Finally as I was turning at the end of the field it happened. She got a hind leg over the tongue and started kicking. The first thing to break that time was the tongue itself, and since the double-trees were fastened to the frame of the rake proper and not to the tongue as on a wagon, I had rather a wild ride while it lasted. The broken end of the tongue dug into the ground and the rake would buck up about 6 feet into the air and my face would be full of horses' heels. I had no stomach for falling under a careening dump rake to be disembowelled by the teeth, so at the first opportunity I slid backward off the seat and took a nose dive off the stern of my chariot. In doing so I must have kicked the pedal which engaged the lifting clutch for just as I started down off the seat over the back the rake proper came up and we met half way in the air.
(Continued on Page 32)

Who's Who at Big Wichita Show

By THE EDITORS

AMONG the Wichita exhibitors, Kansas Farmer is especially proud to list here a number of its advertisers, together with a few facts about the character of their exhibits and representatives who will be on hand to welcome all visitors and discuss farming problems.

rer

eer

wanted

nd stal-

ong and sdale in had the

nd of a al but I short. I then led

e them

passing l was a

a horse ouple of

ıs pads."

agging

caught about 6 ked her

pulling hought

e time. Isiastic

doubleequipre her-

ahead aht in

ng her

til she

ss and

again.

rake. I

at she higher

tongue k that

loubleproper

ther a

tongue

ick up be full

under by the ard off

of my

tarted proper

1938

e.

ing problems.

International Harvester Company, Chicago, Ill. Exhibit spaces in the Forum showing a complete line of farm machinery as well as industrial equipment. In attendance: T. B. Hale, District Manager; Neal Higgins, Ind. Line; A. C. Lindgren, Eng. Dept.; C. C. Gray, Mgr. Hay and Grain Machine Sales; O. F. Scholl, Ass't. Mgr. Hay and Grain Machine Sales; F. H. Marrison, Supt. McCormick Works; C. V. Holman, Mgr. Dairy Equipment Sales, and N. L. Holman, District Rep. Dairy Equipment. W. E. Benton is in charge of the exhibit.

Caterpillar Tractor Company, Peorla.

Caterpillar Tractor Company, Peoria, Ill., will exhibit in the Forum. Their exhibition will include mainly industrial products, Diesel Tractors and Diesel Engines. I. J. Howald will be in charge of the exhibit. Officials in attendance: E. R. Galvin, Genéral Sales Manager; C. M. Burdette, Sales Manager-Central Sales Division; A. C. Jenvey, Agricultural Sales Manager.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Exhibit space in the Forum. A complete line of power farm equipment and an exhibit of industrial tractors and road building equipment will be displayed. E. G. Hulse, Industrial Manager, will be incharge of the exhibit. In attendance: H. C. Merritt, Vice President; W. A. Roberts, General Sales Manager; Jerry Malmo, K. T. Winslow and E. Abrahamson.

J. I. Case Company, Racine, Wis. Exhibit space in the Forum and on Tractor Row. Showing both industrial and farm machinery. Leon R. Clausen, President; W. L. Clark, Vice President and Ellis Chadwick, Branch Manager, Kansas City branch, in attendance.

Dempster Mill Manufacturing Co., Beatrice, Neb., will exhibit in the Forum. A complete line of pumps, water systems and machinery will be shown. George F. Myers will be in charge of the exhibit. In attendance: Earl Gaffney, Sales Manager, and K. A. Underwood, Manager Kansas City Branch.

Rotary Reaper Company, Kansas City, Mo., will exhibit the Rotary Reaper Combine in the Forum. C. C. Baldwin, President; E. C. Van Valkinburgh, Assistant to the President; G. E. Stanley, Sales, and E. W. Baldwin, Engineer, will attend.

The McPherson Concrete Products Co., McPherson, Kan., will exhibit Tongue Lock Concrete Stave Silo in the Forum. V. C. Anderson, Chester W. Anderson, and Fred H. Dreier will be present.

O. J. Watson Company, Wichita, Kan. Exhibit of Fordson tractors and implements in the Forum. In attendance; O. J. Watson, President and Charles F. Gardner, Secretary-Treasurer, plus officials of the Ford Motor Co., Detroit.

Interlocking Stave Silo Company, Inc., Wichita, Kan., will exhibit silo, cutter, hammer mill in the Forum. B. M. Radcliff, General Manager; Kent



"I was walking around in the damp ground yesterday, and got a sore throat!"

Merry, President, and J. H. Radcliff, Vice President and Sales Manager will be in attendance.

National Tile Silo Company, Kansas City, Mo., will exhibit National Tile Silo in the Forum. Lee J. Talbott, Manager and W. C. Walden, General Agent, expect to attend.

The Dodson Manufacturing Company, Wichita, Kan., will exhibit their products in the Forum. D. W. Dodson, Glenn R. Dodson, Leon A. Dodson, Orvill Stanton, of Wichita, and Ted Paulsen, Milwaukee, Wis., will attend the show.

Oliver Farm Equipment Sales Company, Chicago, Ili. The display will be in Tractor Row with a complete tractor and combine display. In attendance: M. S. Tucker, Assistant General Sales Manager; G. A. Dechant, Factory Sales Manager; J. T. Ashton,

Chief Engineer, Battle Creek plant; J. B. Dowd, Branch Manager; L. C. Geelan, Sales Manager, and C. R. Hunt, Assistant Manager of Kansas City Branch.

The Jacobs Wind Electric Company, Inc., Minneapolis, Minn., will exhibit Jacobs Wind Electric plant in the Forum. F. A. Stegeman will be in charge of the exhibit. M. L. Jacobs, of Minneapolis, will attend the show.

Skelly Oil Company, Kansas City, Mo., will exhibit a full line of farm machinery lubricants in the Forum. W. I. Atkin, Vice President; Jess Knowles, Sales Manager; A. E. Taylor, Advertising Manager; H. S. Dickson, Division Manager, and Jess Howard, are officials who expect to attend.

The Massey-Harris Co., Racine, Wis. This exhibit will be on Tractor Row with a complete line of equipment on display. A. Chekla and his assistant, H. F. Sweeney, will attend.

Minneapolis-Moline Power Implement Company, Minneapolis, Minn., will exhibit on Tractor Row. All types of farm equipment will be shown. In

attendance: Bon D. Grussing, Advertising Manager, and Frank Langham, Branch Manager, besides other Minneapolis officials.

Cleveland Tractor Co., Cleveland, Ohio. This company will exhibit several crawler-type tractors in the Forum. Many officials of the company will attend from the home office in Cleveland. Among them will be William Abligaard, Sales Manager; E. E. Miles and B. T. Eagerton. Others will be J. C. McCorkle, H. C. Herman, L. F. Jones and T. J. Hicklin, the latter in charge of the exhibit.

-KF-

Best Results From Silage

More than 1,200 tons of silage was put up on the Keilhorn Ranch near Cambridge, Cowley county, this fall. After 2 refills and several weeks of settling the silage is still above the top. Mr. Keilhorn has been feeding the silage to steers that were nearly ready for market. Silage is at its best when fed with alfalfa, cottonseed meal, corn, and molasses, as Mr. Keilhorn did it.



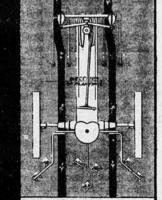
FARMALL 12 \$625

with regular steel-wheel equipment. Belt pulley \$4 extra. Same reduction on F-12 with rubber tires.



REPLACEABLE CYLINDERS— When the original cylinders become worn, brand new cylinders and pistons—duplicates of the originals can be quickly and easily installed. The power producing part of the engine is then actually made as good

McCarmick-Deering Tractors and Farm Machines will be exhibited and demonstrated at the WESTERN TRACTOR AND POWER FARMING EQUIPMENT SHOW at Wichita, February 22 to 25. We invite you to visit the International Harvester Exhibit while attending the show.



The Farmall 12 Patented Cultivator Gang Shift permits good work in checkrowed corn at tractor speeds. Think what this feature means to you in closer cultivation, less hills plowed out and time saved. It's an exclusive patented Farmall feature.

• The McCormick-Deering Farmall has behind it more farm testing and more farm approval than any other tractor on the market. When the F-12 was introduced the Farmall idea was already well known. The F-12 brought all of the McCormick-Deering Farmall advantages into a new price field. The Farmall 12 was purchased from the very first by many men who really needed a larger Farmall.

It takes a lot of extra value in a tractor to stand up under such extra demands. And the Farmall 12 stands up! Owners of smaller farms can accept this as positive proof that the Farmall 12 will do all of their power work, day-in and day-out, and ask no favors of any kind.

Each successive year has seen the Farmall 12 improved, its great value generously increased. The Farmall 12 now on display is the best yet.

Ask the nearest McCormick-Deering dealer to show you the Farmall 12 and the Quick-Attachable machines that work with it. Remember, the larger Farmall 20 and Farmall 30 also offer all the genuine Farmall advantages, plus extra power for bigger farms.

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Avenue

INCORPORATED)

ĥicago, Illinois

MCCORMICK-DEERING FARMALL 12



A she bear with a single cub at her side cast appraising eyes

The First of Two Parts

THE EARLY morning light washed in a gray wave over the dark green crest of the spruce forest, and shortly the intervale was suffused with shimmering gold as the sun's first beams fell upon the mist curtain that overhung the lowlying ground. Each tiny atom of moisture among the millions in the dew-laden atmosphere reflected the golden tint radiantly, then slowly dimmed and was absorbed by the new warmth that came creeping into the air. As the last curling wisps of vapor dissolved the sunlight swept over the wild meadow, disclosing its rich enameling of wild-flowers and lush green grass. The earth dipped slightly to hold the seeping water of a turbulent stream that flowed nearby.

Emerging from the black wall of trees that rimmed this quiet glade a she bear with a single cub at her side cast appraising eyes over the sparkling expanse. Halting for a moment at the meadow's edge she sniffed the air inquiringly, then shambled thru the wet grass to drink at the pool. The cub's tiny bright eyes snapped with mischievous interest in every object that met his view. He suppressed his exuberance however, for already he knew that quietness and caution were advisable in the open spaces until they were examined thoroly for possible lurk-

The mother bear drank of the clear cool water, and with her morning thirst satisfied quested the meadow for breakfast. The cub was in the kindergarten stage of schooling and learning to supple-ment the lessening maternal supply of nourishment with more solid food. With twinkling baby eyes he watched his mother as she sought the roots of Indian turnip and prairie crocus and plowed them up with her snout. The cub sampled them and found the crocus roots eatable, but the pungency of the Indian turnip was rather too biting for his sensitive throat. Anyway, he had breakfasted on more familiar food back in the warm den under an overhanging rock in the heart of the forest, and was not very hungry.
When the roots palled the two moved off toward

the stream. Here the old bear sniffed along the water's edge seeking any disabled fish that might have been cast up, and rooted among the stones in the shallows for tadpoles. A scurrying crawfish she hooked up with her claws and drew to the bank for her off-spring's edification, watching him with shrewd eyes as he cautiously moved it about with his paw and smelt the strange-appearing thing suspiciously. A nip on his tender muzzle from the tiny pincers sent him back on his haunches with a whimper of aston-ishment; and the mother, apparently satisfied with this first lesson in the habits of crawfish, crushed it beneath her foot and swallowed the tit bit with smacking satisfaction.

The stream yielded very little food this morning and her hearty appetite impelled her to seek a more bountiful repast. Giving the cub a low guttural comA Young Bear Cub's Curiosity Leads to An Amazing Adventure for Pretty Sally

By WILLIAM GERARD CHAPMAN

mand to follow, she started off across the meadow and into the woods, heading for a chain of burnt hills that lay to the east. On the other side of this low range she knew of certain unused pasture lands where grew a fruit much to her liking.

A part of the way was rough going, and she frequently helped the cub along over the boulder-stream rise of ground, pushing him up with her nose and occasionally cuffing him into action when he hesitated before the obwhen he hesitated before the obstacles that lay in their path. At length they passed over the crest of the rise, bald of trees save for the sombre gray rampikes that thrust upward out of the undergrowth—stark ghosts of hardwood killed by a forest fire that had swept the ridge many years before. They threaded their way thru these grim sentinel boles, and scrambled down the slope to gain scrambled down the slope to gain

the open ground that lay below. This was a stretch of stump-land pasture where a settler had once grazed his meagre flocks, but long deserted and now with little likelihood of human in-

As the two descended to the open an enticing fragrance in the air caused the older bear to sniff hungrily and shuffle along at a faster gait. The pleasing aromatic quality that reached her nose arose from a low dense growth that matted the ground—a carpet of wild strawberries, the tiny deep red fruit glowing brilliantly among the half shielding green leaves. Here the rich humus of the ancient forest floor in the straight the harmon model fed the harmon leaves. which they were rooted fed the berries lavishly; and watered by the limpid night dews they developed perfection of flavor quite unknown to the cultivated variety. The early summer sun had ripened them and set the sugar.

THE older bear fell to the feast. She curled her THE older bear fell to the feast. She curied her long red tongue around every heavily clustered plant and drew fruit and leaves into her mouth, expelling the coarser leaves and stalks and champing the luscious berries noisily. As she gulped them down she expressed her relish of their spicy sweetness

with low grunts and woofs.

The cub watched her with interested eyes. Here was something in the way of food that was new to him, and apparently it was a very desirable food. The mother occasionally ceased her feeding to nudge him while she rumbled low in her throat, evidently to encourage the youngster to imitate her methods. He sniffed at the berries and at last tentatively mouthed them. His sharp little teeth pierced the delicate pulp and he licked the sweet juice from his lips and found it distinctly pleasing. The forest younglings learn rapidly, and soon he was eating with greedy delight. At first he seized the berries with his teeth, but quickly found the proper use of his tongue in gathering the clusters. his tongue in gathering the clusters.

He ate until he could hold no more, his skin

stretched so tight with his first meal of strawberries that he could scarcely waddle along after his more capacious mother. Finally even her enormous appe-tite was glutted, and she sought a warm grassy pocket between the roots of a large stump and curled up to bask in the grateful mid-day heat while she digested her meal. The cub sprawled beside her, his little paunch ludicrously distended. She licked away the sticky sweetness of the feast from his soft fur while he alternately dozed and made protesting passes with his paws at her face.

When he had rested long enough to feel the need

When he had rested long enough to feel the need of renewed activity, his playful sallies ended his mother's sleepy comfort, and she rose and sauntered off across the pasture, the cub following in her footsteps. She knew this region of old and was aware that the small group of farm buildings that lay at the pasture's lower edge had been forsaken by their former human occupants. She had all a bear's curiosity and felt today in a mood to gratify it concerning these peculiar dens that once had harbored the enemy of her kind. Until now she had not succeeded

in getting her courage up to the point of investigating the log structures, but she sensed in their long desolation a promise of safety, and she approached

them without misgivings.

No trace of human odor lay around the little abandoned farmstead. She nosed about the cabin and crude pole sheds expectant of discovering something of an eatable nature; but nothing rewarded her keep nostrile some the median of search left has been nostrile some the median of search left has been nostrile some the median of search left has been nostrile some the median of search left has been nostrile some the median of search left has been nostrile some the median of search left has been nostrile some the median of search left. her keen nostrils save the medley of scents left by porcupines and mice and squirrels that for years had made the place a rendezvous. A red squirrel discovered her presence from his perch on the ridgepole of the cabin, and ran up and down the moss-grown "scoop" roof chattering wrathful insults at the intruders. The bear eyed him maliciously for a moment, then ignored the insolent little blackguard and continued her explorations.

THE cub at first kept close to his mother's side, ill at ease in these strange surroundings. But grad-ually youthful curiosity overcame his timidity and he strayed from the protecting presence to do a little investigating on his own account. While he sought to fathom the mystery of some rotting tim-bers overgrown with weeds that lay in the rear of the cabin, the old bear pursued her vague quest around the out-buildings.

A sudden muffled squalling brought her racing toward the sound, fur bristling along her back and eyes snapping with angry apprehension. The cry was plainly for help, and she was ready to battle any living thing that threatened her offspring. But no marauder was in sight, nor even the cub, for that matter, tho the plaintive squeals still filled the air, sounding strangely unreal but unmistakably his and quite near to her. Puzzled and anxious she and quite near to her. Puzzled and anxious she sought out his tracks with her nose, but these were so criss-crossed that they only confused her. Her rangings gradually drew the distracted mother closer to the outcry, and at last she knew that it arose from the clump of weeds. Picking her way over the crumbling wood at their roots she came upon a yawning black hole from whence the pitiful summons issued.

The cub had tumbled into an old well, the wooden curb of which lay in decay about its mouth, over-grown with a screening mass of green. It was fortunately dry and so matted at the bottom with litter that the force of his fall was broken, and the fat little body had suffered nothing worse than a severe shaking up. Terror-stricken with the sudden plunge and the quick enveloping blackness he squawled miserably for his mother.

Soon he heard her questioning calls and saw the silhouette of her head against the disk of blue light above him. But her arrival brought only the comfort

of her presence; she was impotent to rescue him.
With yearning eyes the mother bear circled the opening, crouching at the brink now and again to look down into the dark hole, whining anxiously and bidding him with low rumblings to try to climb up. The cub whimpered in reply, and strove vainly to find footing up the straight walls. At first she could not see the small black-furred form in the denser blackness of the bottom, but as her trampling about the edge broke down the weeds the light filtered in and made it possible for her to see him. She flat-tened herself on the ground beside the well and stretched down first one forepaw and then the other in a fruitless attempt to reach the imploring little captive; and once she tentatively backed to the edge to try a descent by the usual bear method. But the crumbling of the earth as she sought for a foothold with her hind feet discouraged her, and she renewed her circling and whining.

Suddenly she lifted her head to a new and start-ling sound. It was the beat of quick footfalls that came to her ears, and as they drew closer she growled menacingly and bared her teeth in sullen defiance. Whatever it might be it was advancing upon the cabin from the pasture, and dimly she associated the intruder with her cub's imprisonment in the pitfall. This of a certainty was the author of his mishap, and all her dormant ferocity blazed into being as she lurched forward to give battle to the unknown enemy before it could complete its designs. It was coming rapidly peared and the unknown signs. It was coming rapidly nearer and she rushed to the front of the cabin to intercept it. As the en-(Continued on Page 25)

conver Thus, of the ag has bee farmers

> to combutility, i generati so many been so them. E were no intent u wanted. wanted.
> reluctan
> "fads an
> they won
> convenie
> ments in
> and won
> ments a
> commun commun vator.
> "Too.ldeclared to do p hauling facetious the Indi riding a lazy; sit But t Spartan

In the

Spartan toil was has give that the the easi sider the fort as v wer jout th

> ractors wanted. What wo and wha 31 per ce ors mad to durable confidence experience of Kingman air-tired been the tor, with condition Wichita:

Fifteen Reasons Why Air Tires Made a Hit With Tractor Owners

By HARRY G. DAVIS Director of Research, Farm Equipment Institute

Park machines are riding on air. Perhaps you would say they are going on rubber tires, but you might be wrong in that. There is only 35 per cent, by weight, of rubber in the tread of a tractor or farm machine tire, while the inside of the tire is filled with compressed air. This makes it more correct to say "air" than "rubber" tires, and that farm machines are going on air. And what a change that oing on air. And what a change that

tigat-

ached little

cabin

somearded ft by uirrel idgemoss-

for a guard

de ill grad-

do a

tim-ar of quest

acing and cry attle

that

air,

his

she

were Her ther

at it

on a sum-

ver-

rtuitter fat

inge

the

ight fort

the n to and

up. ould

nser oout flatand ittle

But re-

art-hat

she llen eing

ent hor

e to

hed en-

938

when the primitive farmer first started to till the soil, he stood on his feet and supplied power to his simple tools with the muscles of his arms and back. Next he fashioned a crude implement, hitched a draft animal to it and plodded along behind it, while he controlled its operations with his hands. Then came the wheel to transport the machine and to control the height and depth of its operations and he found a convenient, if not comfortable, perch where he might ride and save himself the exhaustion that comes from trudging hour after hour in soft soil and ing hour after hour in soft soil and

ing hour after hour in soft soil and scorehing heat.

Thus, step by step thru the stretch of the ages, the drudgery of farm work has been reduced. And now modern farmers are going to ride on air, Certainly, this is in line with present day trends.

They Strive to Please

In these times, when it is so easy to combine comfort, convenience and utility, it seems too bad that so many generations of farmers had to endure so many hardships, when it would have been so easy to have avoided many of them. But machinery manufacturers were not to blame. They always were intent upon giving farmers what they wanted. Perhaps it was the old-time reluctance to pay for what were called "fads and frills," no matter how much they would have added to comfort and convenience, that kept such improvements in the background. Older men and women can recall the caustic comments about the first farmer in their community who bought a riding cultivator.

vator.

"Too lazy to walk," some said; others declared that "the horses had enough to do pulling the cultivator without hauling him around," while some more facetious ones recalled the remarks of the Indian when he first saw a man riding a bicycle: "White man heap lazy; sits down to walk."

But times have changed. The old Spartan idea that heavy, burdensome toil was a natural part of farm work has given way to a newer philosophy that the best way to do most jobs is the easiest way. Farmers now consider their own convenience and comfort as well as the utilitarian features fort as well as the utilitarian features of the machines they buy. It is this newer philosophy that is bringing about this latest development in farm machines, or putting them on air tires.

Many Took a Chance

Many Took a Chance

When air tires were first offered on tractors about 6 years ago, it took the average farmer about two trips around the field, one on an air-tired tractor and the other on a steel wheeled job, to make up his mind as to which he wanted. His only concern then was what would be the life of the air tires and what would be the annual cost of their upkeep. Despite some doubts on these two points, many were willing to take a chance and thousands of sets were sold the first year. Purchases rapidly increased and in 1935, 14 percent of all wheel tractors manufactured were equipped with air tires at the factory. The proportion grew to 31 per cent in 1936, and it is estimated that about half of all the wheel tractors manufactured in 1937 rolled out of the factory on air tires.

While early buyers of air-tired tractors made their purchases on faith as to durability and cost of upkeep, their confidence has been justified by actual experience. In 1932, Bloesser Brothers, of Kingman county, Kansas, bought an air-tired tractor which is said to have been the first one ever sold. This tractor, with its original tires still in good condition, was on exhibit at the 1937 Wichita Show. By the side of the tractors.

tor was a card showing the amount of work it had done in 5 years. Here is the list:

| Machine | Acres |
|---------------------|---------|
| Plow | 635 |
| One-way disk | |
| Harrow | . 540 |
| Drill | . 3,250 |
| Combine | . 2,220 |
| Spring-tooth harrow | . 1,830 |
| Double disk | . 1,800 |
| Lister | . 240 |
| Middle buster | . 140 |
| | |
| Total | 11 115 |

In addition, the tractor had been used about 695 miles on public highways in going from one farm to another.

Why have air tires on tractors proved so popular with farmers? The American Society of Agricultural Engineers wanted the answer to this question and sent questionnaires to several hundred users of air-tired tractors, asking why they preferred air tires to steel wheels. From replies of actual users, the following 15 reasons have been tabulated:

(1) Save fuel; (2) do more work; (3) easier riding; (4) easier on tractor; (5) give tractor more power; (6) can drive on improved and paved highways; (7) increase life of tractor; (8) can pull heavier loads; (9) can do more kinds of work; (10) throw less dust about operator; (11) reduce repair bills; (12) pack soil less than steel wheels; (13) reduce vibration; (14) enable operator to do better work, and (15) are better in orchards when working around fruit trees.

One important result which has come from putting air tires on tractors is to make them adaptable to road work, both in moving from farm yard to field and in highway transportation. Tractor manufacturers have increased the gear ratio of their tractors

creased the gear ratio of their tractors and now most of them will run from 10 to 15 miles an hour, and even more, in high gear, while other manufacturers have started to build wagons and trailers mounted on air wheels to be used for transporting products to and from town

town.

Following this trend, other machines also are being mounted on air tires. Some of these machines are so designed that the tires are interchangeable, thus permitting the use of the same set on several machines. This reduces the farmer's investment in tires and gives him their benefits at a minimum cost. Machines equipped with mum cost. Machines equipped with rubber tires include sprayers, com-bines, threshers, hay balers, manure spreaders and corn pickers.



"I'm going to be gone in the pasture all day, so Mom packed my lunch."

Shredder Husks the Corn

One treatment farmers are giving corn fodder this year, which has not been common for a number of years, is running it thru corn shredders. This husks the ears and delivers them into the wagon, while the stalks and leaves are torn to shreds and usually elevated into the haymow or some dry place. In years when roughage is rather scarce, shredded stover makes an excellent feed if supplemented. Any waste which is left in the mangers is fine for bedding.

(A) Ridges leveled. (B) Layer of dust mulch. (C) Trash covering to prevent soil-blowing.

Seed deposited in wide 6-in moist seed bed and covered with layer of moist soil.



machine—proved in actual service to be the most efficient, economical money-making machine the wheat farmer can buy! With the DEMPSTER TILLING, DAMMING and DEEP FURROW SEEDING MACHINE, you can follow the new system of farming that means bigger crops and better profits—till your land to hold the valuable moisture in the sub-soil—protect your land against drought, soil-blowing and winter kill.

THIS ONE MACHINE DOES EVERYTHING

But Harvest the Crop! You need but this one machine to do every job, and do it better, from one harvest to the next! The DEMP-STER as shown above does a 3-in-one job right after harvest. It goes right into the stubble field and cultivates the ground, cutting loose the vegetation and stubble—forms the furrows, leaving the trash and weed seed on top where it will not grow—and dams the furrows to catch fall and winter moisture. (Note illustration No. 1 at right). Then later in the season you can, in one operation, level the ridges and prepare an excellent seed bed with a layer of dust mulch plus a layer of trash which prevents soil-blowing. (Note illustration No. 2 at right). Then with the machine as pictured below, you can do an ideal job of deep furrow seeding—depositing the seed in a wide, moist, 6-in, seedbed and uniformly covering it with a layer of moist soil. (Note illustration No. 3 at right.)

Think of the money you save by not having to buy several different machines—and the time, labor and fuel you save in doing several jobs at one time!

ROW CROP With the DEMPSTER you

CONTOUR FARMING—The DEMPSTER

ROW CROP With the DEMPSTER you ing sorghum or row crops in an excellently prepared seedbed. You can seed practically all kinds of small grain for either fall or spring planting.

SUMMER FALLOW THE DEMPfor summer fallowing land. Just one operation and the land is set up in the fall of the
year. Once over in Spring and later destroys
vegetation and leaves summer fallow land
ready for seeding.

CONTOUR FARMING -The DEMPSTE and damming machine with independent bottom chine passes over un-even ground.

WRITE today for free illustrated literature picturing and explaining complete details of how this all-purpose machine can mean big NEAREST DEMPSTER DEALER'S.

DEMPSTER MILL MFG. CO.. 719 South Sixth St.,

Kansas Farmer for February 12, 1938

You can save enough power for <u>at least</u>

A DAY'S PLOWING

by using **Standard Tractor Fuel** this Spring

Ask your STANDARD OIL **AGENT TO TELL YOU ABOUT** TESTS WHICH PROVE HOW **MUCH YOU CAN SAVE**

STANDARD OIL COMPANY

These Dos and Don'ts of Tractor Care Have Been Farm Proved

WELL do I remember the afternoon in early spring, when the quiet-ness of the Western plains was interrupted by the bang! bang! sound of an approaching one-cylinder trac-tor.

of an approaching one-cylinder tractor.

I had just returned from school, and thinking the tractor was going to pass me up, on the section line a half mile north, I ran to corner to watch it go by. I was thrilled when I discovered the operator of the tractor was our neighbor. He gave me a ride home.

This "old-timer" did a pretty good job of plowing, when the neighbor could get it to run. But a large part of his time was spent in trying to start the tractor and driving around over the country after repairs.

Several years later I obtained my first job of running a tractor on a threshing outfit. On this model, every time the engine was stopped it was necessary to unbelt the tractor before it could be cranked. On the first job of threshing we had considerable trouble with the tractor overheating. There was much discussion among the farmers about this and the tractor got the blame. When an expert arrived, he found that the threshing machine feeder governor was adjusted so excessive speeds were required to keep the feeder running. When the governor was readjusted, so the separator could be driven at a slower speed, our heating troubles were over.

Warming Up Essential

Improper adjustment and operation still are the causes of most difficulties which result in tractor complaints.

A very common error often made by tractor operators is that of putting the tractor under load before it has had sufficient time to warm up. All tractors, regardless of make or fuel being used, should be started on gasoline and allowed to run at about half engine speed, with the radiator covered, until the water in the cooling system reaches proper operating temperature. The water in the radiator should be near the boiling point before turning on a heavy fuel, or the incoming fuel charge which has been vaporized in the intake manifold will condense when it strikes the cool cylinder wall and be scraped into the crankcase. This will wash carbon and soot into the crankcase and also dilute the oil. Many of the newer tractors are equipped with radiator shutters and temperature gauges for controlling the operating temperature of the cooling water. Such equipment will be a big help in eliminating the wide variations of temperatures often encountered on a cool windy day, when going with and against the wind.

Diluted Oil Over-Emphasized

Altho diluting the crankcase oil with unburned fuel is undesirable, it is doubtful whether it is as detrimental as we used to think. Several surveys conducted by professors and tractor builders show that there is virtually no difference in repair costs when tractors have been using a heavy fuel as compared to those which have been using gasoline. A study in Canada to determine the cause of excessive wear on tractors showed that a very rapid rate of wear took place during the warming up period. The engineers who were conducting this test stated that the rapid wear in their territory was due to lack of lubrication during the warming up period rather than to diluted oil.

Many farmers who own two-fuel

diluted oil.

Many farmers who own two-fuel tractors often ask the question of which fuel should be used in a tractor. The choice of fuel for tractors depends primarily upon the design of the tractor and on other factors such as operating loads, fuel prices, general ecotor and on other factors such as operating loads, fuel prices, general economic conditions, convenience and tax exemptions. Economy is the principal reason for using a heavy fuel in the two-fuel tractor. Tests show that a two-fuel tractor on the same load will use about the same number of pounds of each fuel an hour. By using a heavier type fuel, the farmer will be able to buy his fuel at a lower price and as the heavy fuel weighs more, it will go farther to the gallon.

Fuel consumption tests conducted

on three two-fuel, general-purpose tractors, show that the fuel cost of plowing an acre of ground when using third grade gasoline was 21.8 cents an acre. The gasoline costs 12.2 cents a gallon. The cost of plowing an acre when using tractor fuel was 11.7 cents and the fuel cost 8 cents a gallon. By using tractor fuel in these two-fuel tractors, it was possible to save 10.1 cents an acre when plowing. A special attempt was made to burn each fuel most efficiently during the test. Whether this fuel saving is enough to offset such disadvantages as a special fuel for starting, less flexibility when using a heavy fuel is a problem that the farmer will have to decide for himself.

the farmer will have to decide for himself.

Most of the older model tractors were especially designed for burning kerosene. To eliminate the "fuel pinging" water injection was used. The first time I drove one of these old water injection tractors, I soon found out that you couldn't eliminate all the knock and still get maximum power out of the motor. I had the throttle wide open and the water valve adjusted, so that the tractor wasn't "pinging" but my uncle was standing on the separator motioning for me to open old "Kerosene Annie" up and give him more power. It was necessary to partially close the water valve before more power could be obtained. One of the biggest troubles encountered when using water injection comes when you try to start the tractor after forgetting to close the water valve.

Fuels Higher in Octane

Other

rty ai

Many

he dus o soor quippe

ractor

ount

very 2

ng open Ondition

Today special tractor fuels are much higher in octane or "anti-knock" qualities than kerosene, and less water is required to eliminate the knocking. On many of the newer two-fuel tractors, water injection has been eliminated. For best performance in these tractors a good grade, high octane tractor fuel should be used. A light straw colored fuel, usually indicates a "cracked" or higher octane fuel.

Whenever a heavy type fuel is being used, the heat adjustment on the manifold should be set in the hot position. Most tractors have these adjustments marked, but if there is any doubt as to the markings, move the manifold damper and listen to the sound of the exhaust. The setting which gives a muffled sound is the proper adjustment for burning the heavier fuels. To obtain additional heat on the intake manifold, and prevent the fan blast of air from striking the front part of the manifold, some manufacturers are supplying special tin shields. Some farmers have found that in their tractors plying special tin shields. Some farmers have found that in their tractors they can improve the performance when using a heavy fuel by covering the intake manifold with an old piece of time.

Carburetor Adjustments for Loads

The results of more than 500 field tests, conducted during the past year, show that the average tractor carbi-retor is adjusted rich. No doubt this rich adjustment is the result of put-

Facts You Will Use

Field tested facts on tractor servicing and operation, presented in this article by C. N. Hinkle, will be worth money to you every day your operate your tractor. Mr. Hinkle was reared on the Western plains of Kansas and spent the early part of his life in farming and operating power equipment. He received his B. S. degree in agricultural engineering at Kansas State College, and his M. S. degree in agriculture at Purdue University. He spent 7 years teaching motors and machinery in a Midwestern college and now is tractor representative for the technical department of the Standard Oil Company. You will wish to save this issue for handy reference.

ctor red

d-purpose el cost of hen using di cents an a cre an acre 11.7 cents callon. By two-fuel save 10.1 A special each fuel he test, a special lity when blem that for him-

all the m power throttle valve adr wasn't standing or me to

water is king. On tractors, minated. ese tractor raw col-cracked"

are sup-te farm-tractors ormance covering dd piece

Loads of put-

part per-regri-nsas

tractors burning uel ping-The first ld water and give essary to before 1. One of red when when you orgetting

is being he maniposition, istments loubt as manifold d of the gives a adjustuals. To be intake blast of the

st year, carbu-ibt this

de-rdue ears nery and tive t of You

, 1938

C. N. Hinkle

ting the tractor under load before it has been properly warmed up. This would require a rich carburetor adjustment to keep the tractor from stalling. It is not necessary or recommended that the operator keep tinkering with the carburetor, but it is advisable to adjust the carburetor for the various loads and fuels being used. To adjust the carburetor on a tractor, the tractor should be thoroly warmed up and then put under load. The load or high speed adjustment should be screwed down until the tractor misses. This indicates that the mixture is too can so that the needle valve should be pened until the tractor picks up the load and runs smoothly. The vibration in farm tractors often causes the float needle valve to wear in the seat. This needle valve to wear in the seat. This llows the fuel to raise to a greater height in the carburetor bowl before tis shut off by the float. Tractor combaints of smoking and uneven operation often can be corrected by adjusting the fuel level in the carburetor bowl.

Other common carburetor faults are excessive wearing of choker valves and shottle valve bearings. This allows dirty air to enter the intake manifold of the engine around the worn part without going thru the air cleaner. Many tractor operators fail to have these leaks fixed and their tractors will "inhale" enough dirt in a few weeks operation to wear out the top piston rings, pistons, intake valve suides and often damage the bearings. Other common carburetor faults are

Air Cleaners Guard Service

Many complaints of faulty lubrication and poor fuel can be traced to inefficient or neglected air cleaners. One of the principal reasons why many of the old tractors which were used in the dust areas of the West were out to soon was that they were not equipped with efficient air cleaners. I ne dust areas of the West were out to soon was that they were not quipped with efficient air cleaners. I mow from my experience with an old tractor which I owned that what I once thought was faulty lubrication was nothing more than an excessive mount of dirt getting past an inefficient air cleaner. It was a common practice for us to tighten the rods wery 2 weeks and completely overhaul the motor every 60 days. In discussing these experiences with my students in Indiana, I found that some owned the same model tractor and were having very good success with it. The principal reason for their success a that they were operating their tractors under very clean conditions while was operating in a cloud of dust. This excessively dusty condition had aused the rapid wear which took lace in my tractor.

In many cases where a tractor is being operated under extremely dusty onditions, much trouble can be avoided by extending the intake pipe to a treater height. Many of the older tractors were equipped with long intake pipes, but in operation these pipes were proken off and never replaced. Thus he reason why one tractor would wear nore than another often was due to he location of the intake manifold. The last tractor which I owned, on he farm, was equipped with an oiloaked fibre moss type air cleaner. This air cleaner required servicing very half day or oftener, depending pon the operating conditions. To lean this element we removed it and vashed it in gasoline, then swung the lement vigorously so as to throw off

the excess washing liquid and allowed it to stand for a few minutes so that the fuel would evaporate and drain.

the fuel would evaporate and drain. The element then was dipped in new crankcase oil. When properly taken care of this air cleaner did a good job of protecting the motor, but when allowed to become covered with dust would cause the motor to smoke.

On one of the university farms a tractor which was equipped with one of these oil soaked fibre moss type cleaners wore out after about 400 hours operation. In determining the cause of the rapid wear, it was discovered that the operator periodically had washed the element with kerosene, but had failed to saturate it with oil. Thus, the lack of an oil film had rendered the air cleaner ineffective and caused the motor to wear rapidly.

air cleaner ineffective and caused the motor to wear rapidly.

The oil bath type cleaner now is being used as standard equipment on virtually all the later model tractors. This cleaner requires less servicing than the oil soaked, fibre moss type and is very efficient if the proper grade of oil is used.

It is necessary to use a light oil in this type air cleaner or the incoming

air will not atomize the oil and the dust particles will not be covered with an oil mist. The oil level should be kept at the proper height and in cold weather it is very important that an oil suitable for prevailing temperatures be used. A heavy oil sometimes causes a restriction in the intake and chokes the motor. It often is possible to correct many dilution complaints on motor oil by putting the proper grade of oil in the air cleaner.

New Oil Won't Thicken

In general, it is recommended that the oil be changed in this type air cleaner after about three-eights to one-half inch of dirt has collected in the oil reservoir. By using new oil, the farmer will obtain the proper viscosity oil and there will be less chance of the oil thickening due to the air carrying off the diluent which might be present in a used oil.

A simple method of testing the off.

a used oil.

A simple method of testing the efficiency of an air cleaner is to disconnect the air cleaner from the carburetor and rub a white cloth on the inside of the intake. If any appreciable

amount of dirt is present, it is an indication that the cleaner is not operating properly or the dirt is entering between the carburetor and the air cleaner.

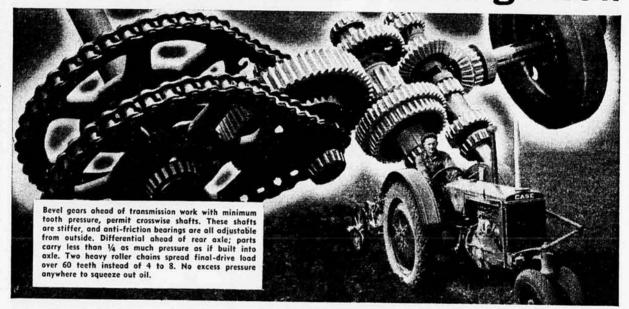
tween the carburetor and the air cleaner.

A very important item in the life of the tractor is that of proper lubrication. The cost of good oil amounts to about 8 per cent of the total operating costs but if neglected, may result in repair costs many times this figure. Users of lubricating oils have no simple means of telling the quality of an oil. They must depend on a reliable company to supply a good product. Tractor builders realize the importance of using a good motor oil in their equipment. They advise the operator to purchase his oil from a reliable company and to beware of "fly by night" oil dealers who make amazing claims, give guarantees and cut prices in an endeavor to pan off an inferior product on an unsuspecting customer.

Failure of an oil to perform its duties of separating the wearing parts, sealing the pistons and carrying off the heat, will result in excessive friction, rapid wear, and loss of power, (Continued on Page 29)

See this SECRE W POWER CO

At the Wichita Power Farming Show



"I don't see where it gets all its power," is a common saying among Case tractor owners. One of the sources of superior performance is shown above—the Case power-saving transmission. When you come to the Power Farming Show at Wichita, call at the Case exhibit and see this transmission cut away to reveal its secrets . . . how it gets more done because of the extra power it puts to work . . . why normally it runs for years and years with never a penny for repairs.

Or let your own Case dealer point out these features on his life-size display . . . no divided shafts . . . only three gear contacts in any speed . . . and the other power-saving features mentioned above. Ask him, too, about the handier, safer, smoother-working, longerlived clutch . . . the many engine features that enable you to take your choice of low-cost fuels—any standardized tractor fuel from distillates to gasoline.

See the latest Case implements to cut the cost of farming . . . the Case Centennial tractor plow they're all talking about because it does things no plow ever did before . . . the heavy-duty power-lift wheatland

plows with higher clearance, flexible cylinder, and positive rotation of blades... the Case wide-type disk harrows that cut 14 to 21 feet, yet go through ordinary gates. Be sure to see the new "TO" turnover plow that gives you two-way operation with one-way compact. ness, convenience, and performance . . . that has automatic levelling and that raises and lowers without revolving the bottoms.

Don't fail to notice the Case basin lister . . . how it makes the dams as high as the ridges, and mulches the sides of the furrow with loose soil for better control of weeds and conservation of moisture. See the Case oil-bath Hi-Lift mower with its superior simplicity, rigidity and balance that make it the lightest-running mower . . . the Case oil-bath side delivery rake with only one pair of gears . . . the Case light-draft, leaf-saving loaders . . and the Case pick-up baler, the successful windrow baling machine.

NEW CASE COMBINE

Ask your dealer about this—the latest among Case's many models of complete-job combines, designed especially for Kansas conditions. Remember to call on us whenever you are in Wichita.

J. I. CASE COMPANY . . . 400 S. WICHITA ST.

It costs LESS to farm with

Western Power Show Exhibitors

THE following is a list of manufac-turers scheduled to exhibit at the 35th Annual Western Tractor &

Sour Farm Equipment Show in Wich-ita, February 22-25:
Allis-Chalmers Mfg. Co., Milwau-kee, Wis.
Avery Farm Machinery, Peoria, Ill. Babson Bros. Co., Kansas City. Mo. The Barber Co., Inc., Philadelphia, Pa.

Barlow & Seelig Mfg. Co., Ripon,

Blood Bros. Machine Co., Allegan,

lich.
Borbein, Young & Co., Wichita, Kan.
J. I. Case Co., Racine, Wis.
Caterpillar Tractor Co., Peoria, Ill.
Columbian Steel Tank Co., Kansas

City, Mo.
Cowie Electric Co., Wichita, Kan.
Cyclone Air Cleaner Co., Portland,

Delco-Remy Division, General Motors Corp., Anderson, Ind.
Dempster Mill Mfg. Co., Beatrice,

Denny Road Machine Co., Wichita,

Dodson Mfg. Co., Wichita, Kan.
Eisemann Magneto Co., New York,
N. Y.
E. D. Etnyre & Co., Oregon, Ill.
Fairbanks, Morse & Co., Beloit, Wis.

The Fafnir Bearing Co., New Britain, Conn.
Ford Motor Co., Detroit, Mich.
French & Hecht, Inc., Davenport, Ia.
The Galion Iron Works Mfg. Co.,
Kansas City, Mo.
Gar Wood Industries, Inc., Detroit,
Mich.

General Distributing Co., Inc., Newton, Kan.

ton, Kan.

Hercules Motor Corp., Canton, Ohio.
Interlocking Stave Silo Co., Inc.,
Wichita, Kan.
International Harvester Co., Chi-

cago.
Jacobs Wind Electric Co., Minne-

sota, Minn.

Johnson Bros. Auto Sup. Co., Wich-

ita, Kan.

Laclede Steel Co., St. Louis, Mo.

Lincoln Engineering Co., St. Louis,

Mo.
W. C. Lipe, Inc., Syracuse, N. Y.
Massey-Harris Co., Racine, Wis.
McPherson Concrete Products Co.,
McPherson, Kan.
Mid-Continent Butane Equip Co.,

Mid-Continent Butane Equip Co.,

Mid-Continent Butane Equip Co., Wichita, Kan.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Murdock Electric Co., Wichita, Kan.
National Tile Silo Co., Kansas City,

Northfield Iron Co., Northfield, Minn.

New Departure Division, General Motors Corp., Bristol, Conn. Oliver Farm Equipment Sales, Chi-

cago, Ill.
Papec Machine Co., Shortsville, N. Y.
Victor L. Phillips Co., Kansas City,

Mo. Productive Equip. Corp., Chicago,

W. A. Riddell Corp., Bucyrus, Ohio. Rotary Reaper Co., Kansas City, Mo. S. S. Sales Co., Wichita, Kan. Scintilla Magneto Co., Inc., Sidney,

. Y. Sears Roebuck & Co., Chicago, Ill. Shaw Mfg. Co., Galesburg, Kan. Sheldon Tractor Filler Co., Cunning-

Sibbitt Iron & Foundry Co., Wichita,

an.
Sinclair Refining Co., Tulsa, Okla.
Skelly Oil, Kansas City, Mo.
Spicer Mfg. Corp., Toledo, Ohio.
Stewart-Warner-Alemite Co., Chi-

cago, Ill.
Stowe Hdwe. & Sup. Co., Kansas
City, Mo.
Timken Roller Bearing Co., New

Truck Parts & Equip. Co., Wichita,

Britain, Conn.

Kan, Universal Motors Oils Co., Wichita,

O. J. Watson Co., Wichita, Kan.
 Wentz Equipment Co., Topeka, Kan.
 Wichita Pump & Supply Co., Wichita, Kan.

Zenith Carburetor Co., Detroit, Mich.

Until Dinner Is Ready—

By THE EDITORS

Bachelor Roundup: A young widow of Dodge City suggests to the mayor that he round up the eligible bache, lors of the city and start them writing to the widows, 9 of them, in her block.

Dog's Life: Frank Dehart, 18-year, old Wichita boy, plunged into the icy Arkansas River to rescue a terrier dog that had broken thru the ice. The dog's owner was little 4-year-old Donnie

Nut Explosion: A coconut blew up to startle Mrs. John Bourget, Augusta, The explosion apparently was caused by gases formed from the fermenting coconut milk.

War Mistake: Many wars may be a mistake but Ralph E. Baker, Parsons, claims he started the battle of San Juan Hill during the Spanish-American war by mistake. He was a substitute bugler and mistook a general's nod and blew the order to charge. blew the order to charge.

Second Medical Cold 28

the Fifth

unty d. His

ilves v

Five po

n. Th

ridely k Poultr

ock gra Iall, Cla

on on a

ns in 1

Astat

this

ave bee ey mar urkeys.

ually fo

Thank You Marm: A Pittsburg man fell and dislocated his shoulder. A po-lice patrol that was rushing him to a hospital hit a hole in the street and bounced him against the roof. The bump put his shoulder back in place.

Servant Snub: The "Big Apple" may be the dance craze of the nation but the butlers and maids of Park Avenue and Long Island in New York think it undignified. They refused to dance it at the fifth annual butler's ball.

Big Job: After working 12 years on a new dictionary, which will include the meanings of American words, two Chicago men have reached the word "clam"

Hat Hunting: R. M. Myers, Marysville, a car dealer, was given a good race by his hat recently. The wind blew his hat off in the country and he caught it only after a mile sprint.

Hitchhiking Pussy: A Chicago cat that wanted to see the world came to Kansas on a Santa Fe fast train. It was found perched on a battery tox under a Pullman and despite efforts of railroad men stayed there until the train reached Newton.

Romance Crash: America's famous "Honeymoon Bridge" over the gorge at Niagara Falls crashed recently when the worst ice jam in years weakened its foundations.

Cash Cupid: A probate court judge of Dodge City insists on cash for marriages. Early one Sunday morning a prospective groom wanted to know if he could pay his fee on the basis of 50 cents down and the rest in weekly payments. "Nothing doing, cupid is cash," said the judge.

Busy Editor: The newly elected editor of the student newspaper at the University of Kansas at Lawrence, Tom Ellis, also carried his own paper route. This is one of his jobs to help him earn his way thru college.

Student Collectors: College students have a habit of collecting souvenits, according to Emporia police, who raided a men's dormitory and a fraternity house. Numerous signs, including "Beware of the Dog." and "No Fishing," and street markers and signs from oil stations were found.



"Only a pup? Say listen, kid! Don't be scaring

See SKELLY'S MINIATURE REFINERY AND OIL FIELD DISPLAY at



FEB. 22 23 - 24 - 25

SKELLY OIL COMPANY

See

A Kansas Refinery

Using Kansas Crude

the farm lubricant display

State Champions Are Crowned at Another Big Farm and Home Week

ANNOUNCEMENTS of wide interest to Kansas farm people were made at Farm and Home Week

ng widow he mayor le bache.

n writing her block,

18-year.
to the icy
errier dog
The dog's
Donnie

Augusta, as caused

rmenting

Parsons, e of San American ubstitute

s nod and

ourg man er. A po-creet and creet and coof. The place,

ple" may ation but Avenue think it ance it at

years on include ords, two he word

Marys-a good ind blew e caught

cago cat came to train. It

ery box efforts antil the

famous e gorge tly when eakened

or mar-rning a know if basis of

weekly cupid is

at the wrence, n paper to help

tudents uvenirs, e, who a fia-includ-includ-to Fish-d signs

, 1938

ast to Kansas farm people were made at Farm and Home Week his year. These added to the full week fivaluable farm information, for which Kansas farmers go to Manhattan in yer increasing numbers. Many farm nen and women have attended Farm and Home Week regularly for years, and every session is a continuation of heir education along latest lines of griculture and home management. The 1937 Kansas beef production winers were announced Thursday by J. J. foxley, beef specialist in charge of the wards. T. I. Mudd and Sons, of Goram. Russell county, won first place. Their 42 creep-fed Hereford calves reighed 818 pounds at 345 days old. They sold for \$14.86 a hundred and etted \$121.67 apiece. This is a fancy nome from 42 calves less than a year id. The Mudds were the 1935 winners a this contest.

a this contest.

Second place went to Glen L. Bloom, f Medicine Lodge, Barber county. He old 28 head of creep-fed Hereford alves, weighing 582 pounds at 261 ays old, and netting \$49.47. They rought \$8.50 a hundred.

R. D. McCallum, Matfield Green, hase county, raised 54 Hereford alves which weighed 493 pounds at 19 days old, to win third prize. Fourth lace went to John R. Wright, Belviere, Kiowa county, on 11 creep-fed fereford calves, weighing 487 pounds the same age as Mr. McCallum's alves.

alves.

Fifth prize was awarded to Harlan Coover, of Sylvan Grove, Lincoln ounty, who raised 8 Hereford calves o a weight of 550 pounds at 239 days ld. His management methods were onsidered ideal, altho the number of alves was small.

Poultry Winners Announced

Five poultry champions were crowned n Tuesday, annual poultry day, by the ansas Poultry Improvement Associan Tuesday, annual poultry day, by the lansas Poultry Improvement Association. These were announced by M. A. eaton and E. R. Halbrook, extension oultrymen. Winners in the certified ock group were Mr. and Mrs. Elmo J. fahoney, Dorrance, Russell county, idely known breeders of White Legorns. They kept 207 birds in 1937. Poultry champions of the approved ock group were Mr. and Mrs. E. J. fall, Clay Center, Clay county. They on on 325 White Leghorns. Managent, production and cost of production were the important considerations in making prize selections. A state turkey champion was chosen, and this prize also was shared by a maried couple, Mr. and Mrs. H. E. Freedan, Hamilton, Greenwood county, who are been active in co-operative turey marketing work and raise Bronze urkeys.

Poultry champions are selected an-ually for brooding and for manage-nent. The 1937 brooding winners were fr. and Mrs. M. E. Rohrer, Abilene, lickinson county. They kept 518 White eghorns. The management champions fere Mr. and Mrs. J. H. Cooling, Healy, ane county. They had a 1937 flock of 35 White Leghorns. The title of Premier Seed Grower fas awarded Arnold C. Claassen, Whitewater, Butler county, and Her-lan L. Cudney, Trousdale, Edwards bunty, when announcement of their

selection was made Thursday evening by L. E. Hawkins, agricultural commissioner of the Kansas City Chamber of Commerce. Supervision of the Premier Seed Grower award is in the hands of the Kansas Crop Improvement Association, Kansas State College, the State Board of Agriculture, and the K. C. Chamber of Commerce.

Arnold Claassen is the second member of the Claassen Brothers' partnership to receive the award. Walter Claassen was selected as Premier Seed Grower in 1935. The Claassen Brothers operate some 1,400 acres in Butler county. Altho Arnold always quickly assigns full credit to Walter, the older of the partners, the success of their farm business unquestionably is due to the constant harmony and co-operation with which they and a third brother. the constant harmony and co-operation with which they and a third brother-partner, Herbert, work.

The Claassen Brothers specialize in the production of certified Kanota oats but they also grow Atlas sorgo, Kan-sas Common alfalfa, Korean lespedeza, Sweet clover, Linota flax and Tenmarq

wheat.

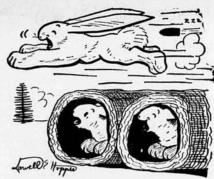
The "Golde" Rule Farm" was established by Mr. Claassen's father in 1890. Accurate production records kept constantly since that time reveal that nearly 7,000 acres of wheat have been grown; the average annual yield has been more than 20 bushels an acre.

Herman L. Cudney owns and operates 552 acres in Edwards county. Altho he specializes in production of certified Tenmarq wheat seed, he also grows Kansas Common alfalfa, Sudan grass and has developed his own strain of Kansas Sunflower corn.

grass and has developed in of Kansas Sunflower corn.

Double Duty Land

Sudan grass and wheat did double duty for W. R. Keasling, Winfield, on 12 acres of land First he harvested 25 bushels of wheat to the acre, and then after seeding Sudan grass, got more than a ton of hay to the acre. The hay



"There goes Speedy again! He has more fun running away from bullets during hunting season!"

will be used for sheep feed this winter. will be used for sheep feed this winter. With 1/2 pound of cottonseed meal a day, it should make a very good roughage. However, W. J. Daly, county agent of Cowley, suggests that a pound of ground limestone daily should be fed to 45 ewes receiving this kind of a ration for a very long period.





 ${f A}$ new 122-inch wheelbase unit has been added to the Ford line of trucks and commercial cars - to bring Ford V-8 economy to loads in the one-ton range. It is available with either the 60 or 85 hp. V-8 engine and comes in three different body types - Stake, Panel and Express.

For contract hauling, the new Ford V-8 134-inch and 157-inch wheelbase trucks offer maximum performance and overall economy. These units are powered with the 85-hp. engine, now in its seventh successful year. Brakes are larger, quicker stopping. Steering is easier. Construction is stronger in vital parts. 7.50-20 dual tire and wheel equipment is available at slight extra cost.

For loads lighter than those in the one-ton range, the new 112-inch wheelbase commercial cars - with a choice of either the 85 or 60 hp. V-8 engine - do the job with unusual economy.

The 1938 Ford V-8 Trucks are the best looking, most dependable and most economical in all Ford history.

Make an "on-the-job" test and prove for yourself how they cut hauling costs in hard farm service.



Master Farmers of 1937 Honored At Farm and Home Week Banquet

By THE EDITORS

WE PRESENT the 1937 class of Kansas Master Farmers, intro-duced at the achievement ban-quet Friday evening, Farm and Home Week, at Manhattan. There are count-less Master Farmers in Kansas. To a degree every man, who with the help of his family, has achieved success in farming, is a master farmer.

Kansas Farmer selects 5 Master Farmers every year. They are pre-sented as examples of the ideal farmer. With the aid of their families these With the aid of their families these men have achieved outstanding success. The Master Farmer award is an accepted incentive to better farming and farm living.

The 1937 selections are confined to the more favored sections of the state from a weather standpoint. The committee composed of J. C. Mohler, sec-



A. L. Criger, Howard

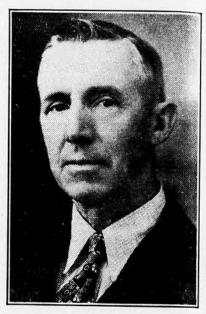
retary of the State Board of Agriculture, Topeka; L. E. Call, dean of agriculture at Kansas State College; and W. H. Burke, Little River, chairman of the State Board of Administration, felt that fair selections could not be made from sections of the state where crops had been non failured until such made from sections of the state where crops had been near failures, until such time as crop returns were normal again. There were some fine examples of master farming ability from these counties, but farming activities had been so hampered for several years that the committee felt it could not justifiably make selections.

Considering the names of the new Master Farmers in alphabetical order, we have H. L. Browniee, Sylvia, Reno county; A. L. Criger, Howard, Elk county; A. T. Hoover, Detroit, Dickinson county; Frank L. Young, Cheney, Kingman county.

Mr. and Mrs. Browniee have 4 children. Mrs. Browniee has been a promi-

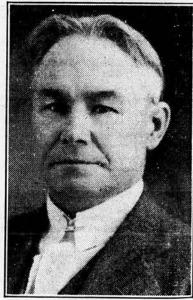


Frank L. Young, Cheney



L. A. Hoop, Fowler

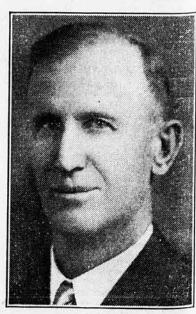
nent member of the Kansas Master Farm Homemakers, a project now sponsored by Kansas Farmer, and similar to the Master Farmer movement. The eldest child, Ellen, is a col-lege graduate and her 3 brothers are making excellent progress. Mr. Brownlee is a native Kansan, who owns 1,100



A. T. Hoover, Detroit

acres of farm land. This is located partly in Reno and partly in Meade counties. Wheat is the primary grain crop, and raising good Hereford calves has been the best paying livestock project.

project.
The Brownlee family stands high in



H. L. Brownlee, Sylvia

estimation of neighbors and ac-aintances. Mr. and Mrs. Brownles active in community affairs and d their efforts to a wide range of ful service. At the same time they we been successful as farmers and we a comfortable and beautiful

ed

iet

aster

now and

nove-a col-s are

1,100

ated

eade

grain

gh in

me.
Mr. and Mrs. Criger live on a ranch
Elk county, which extends over
00 acres and is 50 per cent in cultited land. The ranch is operated as a
estock plant and many head of young
the and hogs are raised and fed in
od years and bad. All cultivated
ds are inclosed by netting fence and
business is conducted under the
se scrutiny of Mr. Criger despite
large size and his many outside inests.

large size and his many outside intests.

There are 3 children in the Criger mily and all have the benefits of a dern home, situated in a beautiful ming country, close to a good town a home which rises to the level being the master farm family.

The Hoop farm is located on Crooked eek in Meade county. Mr. and Mrs. op make their home in the comforte family dwelling, and nearby lives ir son, John, and his wife. A daught, Florence, is teaching school. In recent years Mr. Hoop and his have made outstanding success at alfa production. They have battled asshoppers to a standstill and reaped served rewards from hay and seed

served rewards from hay and seed ops. Wheat is an important crop in undant years and a sizeable acreage indant years and a sizeable acreage s been seeded each year with only diocre results recently. The live-ck features of the Hoop farm in-de a herd of 50 Hereford cows which sume the coarse roughage and feed ins produced. In the house a wind ans produced. In the house a white ctric system supplies convenient wer and light. Kerosene refrigerants is ready for warm weather use. A convenience found in the Crooked Creek valley is artesian water, and a well 275 feet deep flows constantly, providing water for house and barn-

The 270-acre farm operated by A. T. Hoover is outstanding for the careful management of the owner and the changes he has made in his farming changes he has made in his farming system to cope with conditions of the last few years. Sheep have been added to the livestock end of the business. Barley and wheat have taken the place of most of the corn for the time being. Contour farming is accepted as profitable. Rubber-tired machinery is in regular use. Mr. Hoover says that keeping farm records and a study of supply and demand has been his most valuable guide to profitable farm operation.

Two sons of the Hoovers, Evan and Alvan, farm in partnership with them. While this fact was to the advantage of Mr. Hoover in his rating as a father, his sons' activities were not considered in his farming record.

A strong member of the 1937 class is Frank L. Young. He and Mrs. Young have a family of 9 children. The eldest have attended college, the younger are in college or looking forward to it. This family has been active in all types of community endeavor, and the interect of the children has been considered essential to the success of the farm as a business. Every effort has been made to increase the part taken by the children in the operation and benefits of the farm.

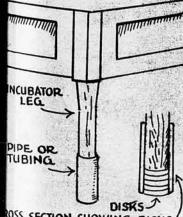
There are 960 acres of mostly tillable land and wheat is the increase.

There are 960 acres of mostly tillable land, and wheat is the important crop. However, a herd of 65 Jerseys, a flock of sheep, some purebred Percherons, and as many hogs as practical, make sorghums, spring barley and alfalfa necessary as feed for this quality livestock. quality livestock.

Ideas That Come in Handy

By FARM FOLKS

eeps Incubator Steady



ND LEG INSIDE TUBE

When operating the incubator in a lar it sometimes is necessary to put cks under the legs to make it level. blocks are often accidentally disged and the eggs jarred. To overne this slip pieces of pipe or tubing it the legs large enough to slip up down. Then place circular disks of od or cardboard under the legs for od or cardboard under the legs and tubes keep the disks from being ocked out.—Bernice E. McWilliams.

Drum Often Useful

n old oil drum, split lengthwise and In old oil drum, split lengthwise and hinged at one side, is indispensable our farm. It serves a dual purpose either a portable watering trough a portable feed trough for all farm mals, and is an ideal container in leh to mix fertilizers or feeds. When d as a container in which to mix far or concrete, the dried mortar tar or concrete, the dried mortar concrete may be pounded from its swith ease and without danger to drum container.—George S.

uare Cuts Roofing

salvanized roofing may be quickly leasily cut with a carpenter's square placing 2 2 by 4's close together oss a couple of saw horses. Lay roofing on top of the 2 by 4's, hold a ct length of planking underneath, hone hand insert the long part of

the square in the crack between the 2 by 4's at the end of the roofing and pull down on the short part of the square, using it as a lever and the short piece of plank as a pry. I often cut galvanized roofing in strips and use as a ridge roll when roofing outbuildings.

—C. S. K.

Scraper From Old Broom

I made a good scraper from an old worn-out broom with the handle cut off and the straws cut off evenly about 2 inches above the stitching. I nailed it on the side of the back door step and it cleans mud from shoes much better than a regular foot scraper does.—Lovis Rickman.

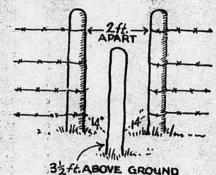
Wire Stretcher for Ground

Old wire stretchers for barbwire are ideal for grounding the radio. The the end of the ground wire thru the hole in the end of the stretcher and drive into the ground.—Mrs. Wade Griffin.

To Sharpen Scissors

The scissor that has become dull can easily be sharpened by simply cutting thru sandpaper a few times. This has proved to be a quick and money-saving remedy.—Martha Carroll.

Walk Thru This Gate



This is the handlest gate on our farm. It is always open to allow a person to walk thru but will stop horses and cows. There are no latches to fasten so one can carry feed, water or milk without having to put it down.—George W. Burke.



ONLY THE "70" WILL DO FEB 17 1938 ALL THESE THINGS

ONLY THE "70" HAS ALL THESE THINGS

6-Cylinder Power—the steady flow of over-lapping power from the modern 6-cylinder engine goes to the Tip Toe Wheels through a transmission equally modern and efficient. 6-cylinder s-m-o-o-t-h-n-e-s-s means less vi-bration and quiet operation—sayes wear on man and machine.

4 Speeds Forward—21/2, 31/2, 41/2 and 5%

Variable Speed Governor Control—fits the power to the load; saves fuel.

Tip Toe Wheels—actually help cultivate the soil instead of packing it. They get sure footing in practically all soil conditions, yet tread so lightly they hardly leave a track.

Central Tool Mounting—puts planters and cultivators in plain sight in front of the operator for easier, more accurate work— shortens headlands.

Real Driver Comfort — with Finger-Tip Control. Every control is easily reached from the comfortable spring-and-hammock driver's seat. Automotive-type steering pro-vides fast, short-radius turns. The "70" is as easy to drive as your automobile.

Modern Tractor Engines—the "70" HC high compression engine for today's high-octane "regular" gasoline—the "70" KD engine for kerosene or distillate—Oliver gives you this choice of modern power.

And—you can have your "70" equipped with self-starter, implement power lift, rub-ber tires, electric lights and power take-off.

The "70" Enables One Man to Do More Work More Easily Than Before



MANHATTAN Because no other tractor is built like the Oliver Row Crop "70", with Tip Toe. Wheels, Central Tool Mounting and 6-Cylinder Power, no other tractor can equal the "70" from spring to harvest on power farm jobs. The "70";

PLOWS—with 2 big bases or 4 discs at 31/3 and 41/3 m.p.h.—with steady surplus drawbar horsepower, and sure traction.

PREPARES SEEDBEDS—with so light a tread that a spike-tooth harrow will erase the Tip Toe Wheel tracks.

BUSTS-with 2 or 3 bases, centrally mounted on strong, rigid beams, easy to hold on the

PLANTS—2, 4 or 6 rows at a time with centrally mounted check row, runner sweep or vegetable planters—in plain sight before the under accurate control and held rigidly in line.

CULTIVATES-2, 4, 6 or more rows at a corn, cotton, beet, bean, vegetable. disc, skip-row, or tool bar cultivators. Here the "70" is supreme on its Tip Toe Wheels that minimize soil packing—with central tool mounting that keeps the work in plain sight, and floating gangs that work at uniform depth.

PULLS-a 6, 8, 10 or 12-foot Grain Master Combine, a grain drill, harrow, deep cultivator, and other tools of equal draft.

DRIVES—a 22x36 thresher, fully equipped, right up to capacity; or a corn sheller or ensilage cutter.

PULLS AND DRIVES—a power binder, a 6-foot Grain Master Combine, 2-row Corn Master Picker-Husker, 1- or 2-row Oliver Potato Digger.

MOWS-with the Row Crop "70" Mounted Mower, or with a regular tractor-drawn

Its high speed and easy handling get the work done on time with less labor, while working more acres.

WHY PUT UP WITH A TRACTOR THAT DOES LESS?



SEE AND DRIVE A "70" **BEFORE YOU BUY!**

Before you buy any tractor or even a team your Oliver Dealer for a demonstration of the Row Crop "70" and its tools.

See your Oliver Dealer or send the coupon for the Oliver "70" Catalog.

| See your Oliver Dealer or check and Wichita, Kan.; Dodge City, Kan. | mail the coupon to Oliver, 132 | 9 W. 13th St., Kansas City, Ma., |
|--|--|---|
| ☐ Oliver Row Crop "70" ☐ Oliver Standard "70" ☐ Oliver Orchard "70" | ☐ Oliver Row Crop "80" ☐ Oliver Standard "80" ☐ Oliver 28-44 Tractor | ☐ Tractor Gang Plow ☐ Tractor Disc Harrow ☐ Combine |



Aren't You Glad We Told You?

Little tasks we must do every day Done in an easier, pleasanter way

The lower part of a ew aluminum double oiler may be kept right and new lookby placing a few otato peelings in the rater each time it is sed. A stalk of rhuwill work just as

A common clothes-split in half, makes suseful pan scrap-which do not rust or scratch alumi-

or enamel ware. New kitchen shears



of sturdy construction with colorful handles can be used for cutting up poultry, slicing green beans, mincing bacon and parsley. green beans, mincing bacon and parsley. Even cutting rope, carpets and wire screen are not too much to ask of them. A special hook on the handle prys off bottle tops and coarse teeth on the inhandles afford a firm grip crew tops from bottles and

When you set up an uning board, so place that you wen't be tanding in your own ght. You will save ourself much stooping if you place the asket of clothes on our kitchen stool.

ment.

ever . This

rners.

s it's

ience

-for

rving.

And

mod-

Don't iron for hours

standing on a hard
or. You'll be much
ore tired when the
eek's laundry is done than you would
if you stood on a rubber mat, or one
ade of thick linoleum.



Silverware cleaned quickly and easily if placed in a pan and covered with clabber milk. Let it clabber milk. Let it stand on back of a warm stove for about 30 minutes, remove and wash as usual. It will look as bright as new.

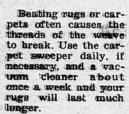
Baking dishes which

Baking dishes which may also be used as servers have the advantage of keeping od hot longer as well as being a time and labor saver for the busy houselfe. They may be used either in the ren or on top of the stove, add brightes and color to your table and are sy to keep clean and shiring.

Coffee loses much of flavor if it is left sed to the air. If. is bought in paper ags transfer it to a ghtly-covered tin or ass jar. Two jars ould be even better, ice one may be kept present use and the r left sealed.

Bake and serve or corn bread in

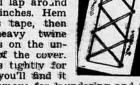
on or corn bread in ell-buttered, individual baking dishes, stard cups or casseroles. This keeps e bread hotter, requires less baking he and makes it easier to serve.



If the wringer on the washing machine is not adjusted too tigirtly, the task of its simplified. The fewer wrinthere are put into the cistles, ewer there will be to iron out.

Shaking garments out thoroly before hanging them on the line also takes out wrinkles.

To cover your ironing board cut a piece of unbleached muslin—an old sheet serves nicely—large enough to cover the top of the board and lap around about 6 inches. Hem with bias tape, then thread heavy twine criss-cross on the under side of the cover. Draw this tightly for use and you'll find it easy to remove for laundering and is no hard task to replace.





Empty the vacuum cleaner into a large paper sack — saved from groceries. The sack can be discarded easily and the dust won't fly.

A wood box that helps to keep my floors clean is mounted on rubber-tired casters. rubber-tired casters. At filling time the box is pushed to the door and it is not necessary

for anyone to make dirty tracks acre

When you are ironwhen you are ironing, have a rack at your right elbow for holding the finished clothes. It's handy, too, to keep a few hangers close by for the clothes you don't wish to fold.

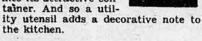
If you are still sprinkling clothes by the old time method of getting your hand wet and then shaking it over the pieces to be froned, you may be interested to know there is an electric spray on the market that will save you much time and effort—and which also dampage the electric. also dampens the clothes much more



Food choppers can prevent the little leaks that sink the ship. All pieces of stale bread may be run thru it for may be run thru it for pudding; vegetable and fruit parings can be ground and mixed with dry feed for the hens; ground meat may fur-nish a delicious company meal; raw vegetables ground make delicious salad add

delicious salad addi-tion to the children's lunch; and cook faster if used for soup.

These handy removable-bucket garbage pails are ideal for the kitchen. The tightpails are ideal for the kitchen. The tight-fitting lid can be raised by stepping on the foot pedal which eliminates stooping. You'll bepleased with the bucket which can be removed for emptying and cleaning and fits back into its attractive container. And so a util-





Perfection and efficiency is the goal of us all. To solve one of the most difficult problems -keeping the labels on tin cannisters—first moisten the labels with givestine. This makes it easy to change them occasionally with proper libels accord-ing to centents.

Kitchen appliances which fasten to traitle or shelf by a clamp device sometimes may the surface and, if they do not fit exactly, twist and slip during a stiff work-out.

Time and Temper Saver

I keep a pair of pointed nose pliers in my kitchen for use in opening jars of fruit, meat and vegetables. It never fails to grip the rubber ring tightly, breaking the seal in a jiffy, so the lid may be quickly unscrewed.

—Homemaker.

To protect your working surface and to keep your appliance firm and steady, there is an inexpensive little rubber pad that fits snugly over the edge of any work table and over which your appliance clamps firmly.

Broom holders, small hooks and screws help to keep the household cleaning equipment in good working order. Hang up brooms, good working order. Hang up brooms, mops, dusters and cleaning brushes by attaching screws to the handles.

Women using power washing machines which have motors will

find it helpful to put the end of the exhaust in the ashpan of their laundry stove, or whatever kind of stove they use, instead of out-of-doors. It works fine, not only does it put the exhaust smoke out-of-doors, but also cleans the stove pipes and chimneys of soot.

She Doesn't Want Much

By MRS. JOHN RENSON

I guess I'm funny. I haven't much ambition. All I want is a little house with a swing on the front porch and a garden close to the back. Bright lineleum on the floors and painted walls and gay curtains at the windows. The

and gay curtains at the windows. The makings of a pie or a cake, or perhaps, a batch of biscuits or a pan of cornbread in the pantry. Pretty dishes in the dining room, pink and blue spreads on the beds...

A play yard outside the kitchen window, and little feet running in from play. A walk and a white gate with a little squeak, so I can tell when Someone Dear is coming in from work. A living room where all of us, with now or then a guest or two, can linger in the evenings.

when I read this over, I see that I have asked for all the best things in the world: A home, freedom from want, children and my man to love, companionship. Perhaps I am ambitious, after all.

AVOID DOSES THAT UPSET DIGESTION

CONSTIPA

FOR easy, pleasant relief from the headaches and loginess of constipatio choose a laxative that doesn't punis headaches and loginess of constipation, choose a laxative that doesn't punish digestion. Take FEEN-A-MINT, the delicious chewing gum laxative. You'll like its flavor—but more important, it has no bulk or heaviness to upset your stomach. And the chewing increases the natural alkaline mouth fluids that help food digest. Join the 16 million folks who have already changed to FEEN-A-MINT! Good for young and old—and children love it. Get a package today at your druggist, or write for generous FREE trial package, Dept. 474, FEEN-A-MINT, Newark, N. J.

To Relieve Bad Cough, Mix This Recipe, at Home

Big Saving. No Cooking. So Easy.

You'll never know how quickly and easily you can overcome coughs due to colds, until you try this famous recipe. It gives you four times as much cough medicine for your money, and you'll find it the finest thing you ever tried, for real relief.

Make a syrup by stirring 2 cups of granulated sugar and one cup of water a few moments, until dissolved. No cooking needed—it's no trouble at all. Then put 2½ ounces of Pinex (obtained from any druggist) into a pint bettle. Add your syrup and you have a full pint of medicine that will amaze you by its quick action. It never spoils, lasts a family a long time, and tastes fine—children lowe it.

This simple mixture takes right hold of a severe cough. For real results, you've never seen its equal. It loosens the phlegm, anothes the inflamed membranes, and quickly eases soreness and difficult breathing.

Pinex is a compound of Norway Pine, in concentrated form, famous for its prompt action in coughs and bronchial irritations. Money refunded if it doesn't please you in every way.



SPEAK A GOOD WORD for the
KANSAS FARMER
when writing to advertisers.
It help; you and helps us.

Your Busy Hands!



Protect them from

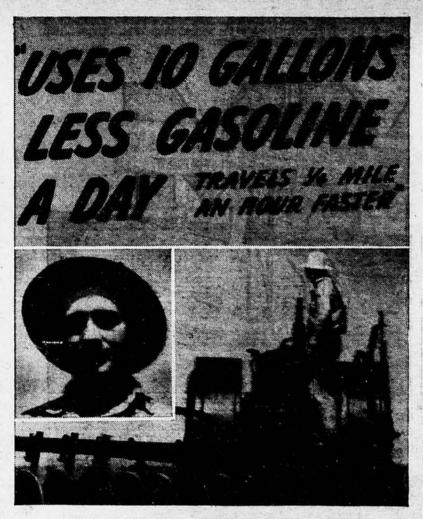
Must the hands that are busy all day bear the telltale marks of roughness, redness, or chapping? The answer is "No! Not if you follow the Mentholatum Method of keep-

ing your hands in good condition."
What could be simpler than this: Every night and morning, as well as after exosure to all rough work, apply a little Mentholatum to your hands and rub it in well. See if this treatment does not keep them smooth in spite of dish washing.

s Farmer for February 12, 1938







IN THE SAME KANSAS WHEATFIELD, PULLING THE SAME LOAD, FLORIAN POLCYN'S MISH COMPRESSION TRACTOR BEATS TWO LOW COMPRESSION TRACTORS

BECAUSE the Polcyn Brothers of Gorham, Kansas, use three tractors to work 1300 acres, they have had a unique opportunity to test the merits of high compression and low compression tractors in the same field. Says Florian (Mike) Polcyn:

"We burn regular-grade gasoline in all of them. Our new high com-pression Minneapolis-Moline trac-tor uses 10 gullons less a day than either of the other two tractors, and it will gain a quarter of a mile in an

SEND FOR FREE 24-PAGE BOOKLET

hour, plowing in the same field. In the course of a 10-hour day, the new high compressioned tractor ac-tually goes 2½ miles farther.
"This saving in gasoline and gain in additional distance holds good

whether we are plowing with a mine-foot one-way plow, or plowing with a five-bottom moldboard plow."

To get added power from your tractor, ask your dealer or write your manufacturer today about getting high compression ("altitude") pistons or cylinder head to change it over to high compression. Easier yet, see that your next tractor has high compression pistons or cylinder head, which most manufac-turers offer at no additional cost.

Ethyl Gasoline Corporation Dept. T-13, Chrysler Building, New York, N. Y. GENTLEMEN: Please mail me your TREE BOOKLET, "How to Get More Tractor Power." tractor.

IT PAYS TO BUY GOOD GASOLINE FOR CARS TRUCKS AND TRACTORS

Trade with Kansas Farmer Advertisers

The products and appliances that they offer for sale are as represented. The things they say about farm profit and farm improvements are sound and truthful.

We wish to recommend to you the advertisements in Kansas Farmer as an additional source of farm information and help.

Damming Attachments on Listers Add to Their Popularity

By E. A. STEPHENSON

Listers are staging a comeback in Western Kansas, thanks to the recent development of damming attachments to go behind them as a means of building water-holding reservoirs in the fields.

P. K. Cummings, Kingsdown, used dammers behind his lister on fairly level "hard land" soil when planting feed last spring. He left them off on a similar piece of ground which was more fertile than that dammed. The feed put in with the basins had as good a stand as the other early in the season, and this fall Mr. Cummings estimated he cut twice as much tonnage from this poor ground as he did from that not treated, as the basins caught and held two showers.

On the head of Bluff Creek south of Bloom, Ben Randall put his feed in with dammers and also put his rows on the contour. On this sloping rough ground, Mr. Randall raised about the best feed crep in his community. George Taylor, his neighbor down the creek, reported similar results.

On the Bar-Seven-Bar ranch south of Kingsdown, land summer fallowed on the contour with basin listing, caught every drop of a hard 2-inch rain in June. This rain ran off adjacent pastures and fields rapidly enough to flood Bluff Creek out of its banks.

Not all users of dammers were satisfied with their use, however. Bob Seacat of Bucklin, raported serious damage from washing on a sloping field thus treated. He listed up and down the slopes rather than on the contour, hoping the basins would hold. The first rain, however, disaflusioned him, as the top basins filled and broke over to the next, and so on down the row until the bottom of the hill was reached with a hig head of water which tore the lister trenches to pieces.

Two users of dammers on sandy ground were well pleased with results. McMinimy Brothers, southeast of Ashland, handled a considerable area advantageously in this manner, and near Englewood, E. C. Walker's basin-listed summer fallow was successful to the point that he had 48 inches of moisture at planting time. This compared with 22 inches on a neighboring field which he head on

point that he had 48 inches of mois-ture at planting time. This compared with 22 inches on a neighboring field which had been worked with other im-

which had been worked with other implements.

Since the work developed at the Hays Experiment Station in which the first damming tool was a hand-operated "spade" arrangement, many types of dammers have been built. Some operate on the principle of a trip arrangement which kicks out when enough dirt gets behind it to press it up. Others work on a chain attached to a wheel of the machine, raising out of the row at regular intervals, and still others ride on a wheel which has a big lug attached, so that every time the wheel rotates the dammer will be raised.

In a talk before 75 farmers at Minneola recently, L. C. Aicher, superintendent of the Hays Experiment Station, made several specifications necessary for successful use of damming attachments. He made these points:

When dammers are used on land with more than around 2 feet of slope in every hundred, the listing must be done on the contour.

For summer fallowing, the listing should be done early in the year, in order to catch snew and rain.

If one is going to build dams, he

R

to kr finem make

show

summ mach Wichi they we kn

States

is a no been tors in

rubbe

and ha

vision tor fro equipp

extra

easily fully a used of We ple on real land, a toms e

in the on hea moistu article

on the

found for ple land.

handle tors o wheels

Rub sandy them a no get load or

one do ridges

Aday jobs w year. I bines

bumpe outfits,

Kansas

order to catch snew and rain.

If one is going to build dams, he should go all the way and build big ones, level with the lister ridges.

As a second operation on summer fallow the lister ridges can be "busted out" with dammers still attached.

To handle a field that has been dammed, a "noser" can be built at home to put in front of the tractor to knock down the dams as one goes along, thus avoiding a bucking bronco action on the part of the tractor. The Hays Experiment Station can supply blueprints of this attachment for 10 cents.

cents.

Dam-listed ground may be quite loose, especially if a busting operation is done. To help this situation, drag a wide-spaced, narrow-wheeled land

mide-spaced, narrow-wheeled land packer behind tools on subsequent operations.

In selection of a damming attachment, look for one that is of stundy, simple construction, for the operation is one that applies a lot of strains, jerks, and bounces on the frame of the tool

Jerks, and bounces on the frame of the tool.

The Hays Station has not used the old fashioned harrow in any connection with wheat ground preparation for 10 years because it compacts the top soil and "fines" it so much that it cannot absorb rains. Do not use it in leveling a basin-listed job.

A testimonial on this last point recently was made by Virgil Crane, north of Sitka, who contour-listed some summer fallowed ground, then as his last leveling operation, went crosswise to the listed rows with a harrow. He reports that in a small rain received after this operation every little harrow track made a runway for water with the result that he suffered a lot of washing damage.

Tom Bare, of Minneola, a former state wheat king, this week made this statement:

"If farmers 50 years are in my old."

state wheat king, this week made this statement:

"If farmers 50 years ago in my old home county in Eastern Kansas had cared for the land in the way these new methods are prescribing, they would still have something left. As a boy I raised corn in a field there and the rows were \(\frac{4}{3} \)-mile long. On a recent visit there I looked this field over, and saw big rocks all over it with and saw big rocks all over it, with ditches so big and numerous that a man couldn't have made a single corn row a quarter of a mile long, no matter which way he went."

One Machine Does Many Jobs



pater tilling, damming, and deep furrow seeding Here it is doing a 3-in-one job right after he sufficience the ground, withing lune the regets

New Machinery Developed to Carry Out New Farming Ideas

By TUDOR CHARLES

APID arrival of new inventions in

Min-

Sta-

land slope st be

sting ir, in

s, he

nmer

d.

goes The apply or 10

quite

land

tachurdy. etion rains, of the

d the

or 10 p soil

ing a

sum-last se to e re-after

with ot of

they As a and a re-

over, with at a corn mat-

1938

APID arrival of new inventions in the equipment field has calloused most of us to any great degree of awe. But to the farmer who needs a certain type of machinery, there is real news in latest developments. He wants to know just what inventions or refinements are found in the various makes of equipment he is considering. He will be at the Wichita machinery show if he can arrange it, and if he can't attend there he'll go to a smaller show or visit his dealer.

The many improvements can't be summarized entirely here. Only the machinery experts who will be at Wichita know about some of the things they will have to show. But in general we know what to expect.

There is a decided tendency to give more attention to small tractors. There are about 5 million farms in the United States which still are without tractors, while fewer than 2 million are using tractors. Most of these 5 million farms are small. It is here there is a need for smaller units. There have been several satisfactory small tractors in use for a number of years. One of the latest models is put out with rubber tires as standard equipment, and has a tubular design of frame construction between the engine and the differential housing. This permits full vision of the ground beneath the tractor from the driver's seat.

A year ago I told how the latest conventional 2-plow tractors, when equipped with rubber, would pull an extra plow bottom, skimming along easily with 3 plows behind. This proved fully accurate on our farm where we used our new tractor in sandy loam. We plowed alfalfa sod in early March, on reasonably black second bottom land, and the tractor handled 3 bottoms easily. However, our local dealer gave me a good ribbing one day later in the season. Several farmers living on heavy clay soil, the kind that holds moisture thru any drouth, read the article and proceeded to try 3 plows on their new rubber-tired outfits. They found 3 bottoms too much of a load for plow speed on heavy and sloping land. But the fact remains that the new "jobs" equipped w

wheels.
Rubber tires are a big success on sandy land. It is possible to "stick" them and once you are stuck, there is no getting out without reducing the load or improving the traction. But if one does not stop in a difficult spot, rubber tires will take the worst sand ridges or pockets, and do it with scarcely any reduction in speed.

Adaptation of combines to smaller jobs was enough to make history last year. Kansas farmers went for combines in a big way to harvest their bumper wheat crop. The lowest priced outfits, operated by power take-off, were most successful on level and smooth land. On rough land where grades slow the tractor down, it is



H. F. Roepke, Pottawatomie county, says tires ncreased the cost of his tractor about 25 cent, but it increased the amount of k it would do from 30 to 50 per cent with no greater fuel or oil expense.

necessary to shift to a lower gear, or grain will go over the threshing sieves as their action goes down. Temporary slowing of the tractor results in slowing of the threshing parts. Rough land is unsuited to satisfactory operation of a light, fast-moving combine, farmers say, because the speed and the bumps don't mix. A combine moving at slightly more than 2 miles an hour can negotiate gullies and hummocks with little damage, but taking these at 4 to 5 miles an hour doesn't appeal to the careful farmer, from what I can find out.

One need farmers have mentioned in

find out.

One need farmers have mentioned in this connection is a clutch control on tractors which will permit the power take-off to continue to operate even if the operator stops the tractor. Occasional stops in heavy grain simply mean that the combine is full of straw and the start must be made under these conditions, or else the shift gear on the tractor must be slipped into neutral and the clutch engaged. I haven't discussed the feasibility of this matter with any of the tractor engineers, but am only repeating what farmers say.

say.

Tandem hitches for combines are not uncommon in Western Kansas, but



A new small tractor of the size said to be adapted to 60 per cent of the nation's farms. It is new in frame design and priced in accordance with its size

their appearance in Eastern Kansas was a novelty. Raymond Adams, Maple Hill, using combines for the first time, pulled two 12-foot combines in tandem with good results.

Using combines to thresh sorghum seed from the shock was never so widespread as last fall. In the West I noticed farmers hauling bundles to the combine and using it as a stationary thresher. Some had attached a homemade elevator to carry the straw away

from the frar outlet, thus performing the work a a blower and permitting a reasonably sized stack.

Night cutting was common too, during the early part of the 1937 harvest. The weather was so dry there was no dew and thru Central Kansas one could see combine and tractor lights at all hours. Combines were used on a wider variety of crops. Brome and Crested wheat grass seed were combined suc(Continued on Page 33)

ALL-CROP SYSTEM OF FARMING Pay yourself at harvest time...instead of somebody else. The All-Crop System of Farming insures your payday, because you have no threshing bills, no harvest crew, no shocking, no twine to buy. Your total harvesting total harvesting expense is usually less than one-fourth of binder-thresher costs. Keep the threshing job in the family — with the All-Crop Harvester. Free Mother from worry, cooking over a hot stove for a threshing crew that will show up nobody knows when. Late suppers, long sieges of trading work are out of date. Pay yourself more at harvest time ... more for years to come. The All-Crop Harvester gives you a new system of building up your land at a cash profit. For the first time you can harvest soil-building legumes as a cash seed crop without waste. With simple adjustments of the All-Crop's full-width 5-foot cylinder, you can harvest 83 different crops . . . grains, beans and seeds. You can handle weedy crops or green, heavy growth that would choke ordinary machines. Cutter bar shaves the ground to get lodged, tangled grain. Pay yourself and your children the benefits of the All-Crop System of Farming. Send coupon for FREE booklet! Free yourself from the risks of one-crop farming and binder-thresher harvests! You can make a cash profit while you improve the land. Near you lives an All-Crop Harvester owner . . . ask him! ALLIS CHALMERS MANUFACTURING CO. Dept. 19, Tractor Division, Milwenkee, V Gentlement ntlement nd FREE catalogs checked. I farm......scre All-Crop Harvester Track-Type Tractor Two-Plow Tractor High Speed Plows
Three-Plow Tractor Tillage Tools
Four-Plow Tractor Stationary Power Units ALLIS-CHALMERS

CLETRAC The All-Purpose All-Season Tractor

• Examine Cletrac from every angle—put it to work on any farm job—any season —and you'll quickly learn why Cletrac provides easier, more profitable farming.



FITTING—Cletrac gives you year-'round power that goes into any field, irrespective of soil conditions. You plow when plowing must be done. Model E pulls three bottoms under average conditions—four bottoms in lighter soils.



PLANTING - Cletrac Model E is available infive widths—31,38,62,68 and 76 inches providing a correct tread for all rowcrops -corn, potatoes, beets, beans-vegetable of all kinds. Because of Cletrac's mini mum ground pressure, root beds stay light and friable . . . crops grow strong root systems—develop maximum yields.



LULTIVATING-With narrow tracks-only 8 inches wide — narrower than many wheel rims—Cletrac is ideal for cultivating. High clearance of 18 or 24 inches, depending upon model selected, permits cultivating and weeding all row crops, even tall corn. Ample traction makes it possible to go through soft spots and over muck lands without miring down.



HARVESTING—Here, too, Cletrac has ample power for pulling combines, corn pickers and similar equipment—power for hauling large loads from fields—power that is honest power—365 days a year.

CONVENIENCE AND COMFORT—All controls are within easy reach. Oiling and greas-ing are simple. The big bucket seat is deep and wide. It is supported on a flexi-ble spring that cushions rough going.

INTEGRAL EQUIPMENT—Including two and four row cultivators and planters are available—specially built for Model E Cletrac.

Valuable Information FREE

Get the facts about Cletrac before buying any tractor. Mail the coupon. We will gladly send you extremely interesting and complete information describing Cletrac Crawler Tractors. Cletracs are available from 22 to 94 horsepower in gasoline/Diesel and tractor fuel models and cost no more than rubber-tired tractors of comparable horsepower.

THE CLEVELAND TRACTOR COMPANY

19305-32 Euclid Avenue Cleveland, Ohio



Street and No. or R. F. D.

Print Postoffice

Speak a Good Word for KANSAS FARMER

when writing to advertisers.
... it helps you and helps us.
sort of good citizenship.

A \$50 Reward Is Paid to Men Who Helped in War on Thieves

By J. M. PARKS, Manager Kansas Farmer Protective Service

N THE night of November 8, poultry houses on several farms near Winchester, Jefferson county, were raided. Next day most of the turkeys and chickens were recovered at the sheriff's office. In the meantime, a private citizen, Chester Baecker, was called on near Midland, to assist two men whose car had stalled. He heard chickens squawking but was told it was birds. After the men had left the scene Baecker investigated a field nearby, found the chickens, and called the sheriff. Among the farmers who had lost property were two Service members, Eli Cathcart and E. P. Davies, both of Winchester. Both of them assisted in the prosecution by identifying their property and in other ways co-operating with the law enforcement officers. The two thieves, Al Miller and Walter Harrold, were given 5-10 fear sentences in the state penitentiary. Service Members Davies and Cathcart both recommended that the \$50 reward be divided equally among the three of them, Davies, Cathcart and Baecker.

In acknowledging receipt of his part of the reward, Mr. Davies said, "I thank you for the \$16.66 check, as my part of the \$50 reward, also for the Protective Service. I appreciate them both." Cathcart said he was well pleased with the division of the reward and assured the Protective Service that he was ready to assist this agency at any time in its efforts to stop stealing. N THE night of November 8, poul-

stop stealing.

Offered to Return Loot

There may have been a time when Kansas farmers would let a thief go free, provided he returned what had been stolen. George E. Winn, Hardtner, R. 2, believes the time for that kind of treatment has passed. A number of valuable tools were stolen from his farm recently. He, with the help of neighbors and members of the sheriff's force, followed the trail to the home of George Pratt. Upon being questioned, Pratt admitted his guilt and said he would be willing to return the tools if Winn would let him go free.

Winn refused to do this and insisted on a court trial. Pratt was given a 90-day jail sentence. A \$25 reward, paid for this conviction, was distributed equally among Winn, Deputy Sheriff Herman Wilhite, Hardtner and Lawrence Alexander, Kiowa, who furnished important information.

Clues From Neighbors

Clues From Neighbors

Turning detective, after a gun and other articles were stolen from his farm, L. B. Diller, R. 2, Washington, talked with several neighbors and picked up bits of information here and there. One neighbor had seen a questionable character, Warden Nedjl, near the Diller farm. Another neighbor, later, was approached by Nedjl and was asked for some shells of the size required by the Diller gun. The sheriff was notified, and questioned Nedjl, until he confessed to the theft. He will serve a 60-day jail sentence. All of the \$25 reward, paid by Kansas Farmer, for this conviction, was sent to Service Member Diller, who expressed the intention of dividing with one or more of his neighbors, who imparted valuable information, when interviewed by Diller.

All Citizens Can Help

It is interesting to note that in the thefts mentioned, as well as in most other stealings from farms, very little could have been accomplished if it had not been for the assistance of private citizens who are in favor of law enforcement. Occasionally, sheriffs or other officers catch thieves in the act, or make arrests on suspicion. To a very large extent, however, crimes of this class are brought to light only thru the voluntary aid of law abiding people. It is the purpose of the Protective Service to encourage this sort of good citizenship. Many of our rewards go to informers.

.To date, Kansas Farmer has paid out a total of \$26,775 in rewards for the conviction of 1,080 thieves, who have stolen from posted premises.

A Fight on Venereal Disease

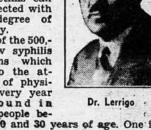
By CHARLES H. LERRIGO, M. D.

PROCLAMATIONS of National Social Hygiene Day to cial Hygiene Day in February remind us of the importance of this great subject. It is hoped that the next decade may bring progress in stamping out the venereal diseases of gonorrhoea and syphilis comparable to that obtained in the last one in fighting tuberculosis. We are assured by doctors who give special attention to such diseases that such

success is possi-ble if information can be spread and money provided; that the large number of inno-cent victims can be protected with some degree of certainty.

Half of the 500,-

000 new syphilis infections which come to the attention of physicians every year are found in



are found in young people between 20 and 30 years of age. One in five of all syphilis infections are found in boys and girls under 20. What does youth itself think of this? Are they indifferent? Do they understand the significance of these facts? The answer is that youth thinks a lot about it, is not indifferent, and does appreciate its significance.

Last year thousands of young men and women individually and collectively accepted the challenge, urged measures which would reduce the terrible toll of syphilis. Last year the Y. M. C. A.'s, 4-H Clubs, college and

university students, the American Youth Congress and many more have gone on record as favoring the campaign against syphilis and have taken concrete strides toward the realization of a syphilis-free country. And the number of determined young people is on the increase. on the increase

Not alone are the American Social Hygiene Association and the United States Public Health Service concerned States Public Health Service concerned with the guidance of an effective campaign against the disease. Such diverse groups, for example, as the Junior Chamber of Commerce, the General Federation of Women's Clubs and the Protestant Episcopal Church have determined to do something about it. But transcending the value of all adult guidance is the heartening fact that youth itself is doing something, that youth recognizes the menace for what it is, and has vowed to rout its insidious foe. This paper suggests to

insidious foe. This paper suggests to inquirers of any age that you write to American Social Hygiene Association, 50 West Fiftieth St., New York City, for free information.

No Sugar for Baby

I would like to know if sugar is healthful to put in baby's nipple.—Mrs. W.

I suppose you mean just enough to induce the baby to take the nipple. It is not recommended. It takes very little cane sugar to induce intestinal fermentation in a baby. Such sugar as is used should be mixed in the milk.

If you wish a medical question answered, en close a 3-cent stamped, self-addressed envelope with your question to Dr. C. H. Lerrigo, Kansas Farmer, Topeka, Kansas.

INOCULATE ALL LEGUMES AND SEE THE

Profitable farming today is practically impossible without legumes. Why risk yield, soil-building, and feeding values of this important crop by uncertain inoculation with wild or ordinary cultures when NITRAGIN inoculation costs only a few cents an acre. You can't afford to plant a pound of alfalfa, clovers, soybeans or other legumes without inoculating the seed with NITRAGIN.

noculating the seed with NITRAGIN.

Remember, NITRAGIN is the original commercial inoculant... proved by 39 years of practical use by farmers in every section of the country. It has been bred up by 39 years of scientific strain selection and testing. NOW! Costs No More Than

Ordinary Inoculants

Largest production and most modern laboratories bring still lower prices for 1938. Genuine NITRA-GIN costs no more than ordinary inoculants. Sold by leading seed dealers or sent from factory. Get Facts About Regumes

IRRI

Mr

or

unsas I

rowing of legumes oklets: "DOUBLE UMES," "BUILD-TON AND CORN."

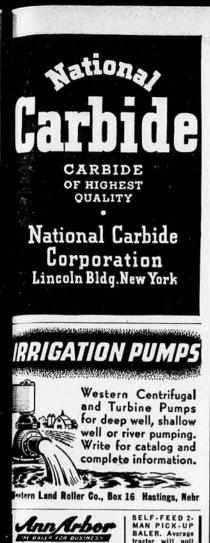
NITRAGIN



NATURE is kind to North Carolina farmers. Its harsher elements are missing. Soil and climate combine to produce profits for the intelligent farmer. The variety of crops and longer growing season give North Carolina third rank in cash income from farm products. Ideal conditions for almost products. Ideal conditions for almost every crop grown in the United States. Livestock thrives. Dairying, fruit culture, truck farming offer chances for real profit. North Carolina is famous for its hard paved roads, making it economical to market farm products. The school system is among the country's finest. Come see for yourself the "greener pastures" in North Carolina. North Carolina is a good place to live, work and raise your family in prosperity and contentment amongst hospitable people. Good farm lands—reasonably priced—are still available. Write today—Farm Division, Room 56, Department of Conservation & Development, Raleigh, N. C.

North CAROLINA





yield is im with AGIN acre

han

mod lowe TRA ordin ading

s are

ong-lina arm most

for nous ig it nets. oun-the

live, hos-

IA

1938

ts



Ann Arbor-Klughartt Co. 1313 W. 13th St. Kansas City, Mo. Display at Wichita Show at Smythe Implt. Co.



Cutters and Parts WICHITA, KAN.

FORDS

COFFEE ROUTES PAYING YE \$60 National company needs more a make regular calls on local rou ence needed. Operate on our cap 5500.00 each cap besides your weekly name on postcard. name on postcard for races

ALBERT MILLS
5117 Monmouth, Cincinnati, Ohio

NATIONAL Vitrified SILOS

Everlasting TILE
Cheap to install. Free from trouble.
Steel reinforcing every course of tile.

NO Blowing In Buy Now Erect Early Immediate Shipment Rowell Roller Bearing Enalize Cutters. Write for prices. Special discounts now. Good territory open for live agents. NATIONAL TILE SILO COMPANY R.A. Long Bilds., Kansas City, Me.

Are You BUYING or **SELLING?**

t will pay you as a buyer or seller to teh the classified ads that are published Kansas Farmer. Sellers of Poultry, 25, Cream, Hay and Grain will find lable dealers and manufacturers giving vice in these lines.

rvice in these lines.

If you are buying, be sure to see the indreds of offerings under the follow-she headings: Baby Chicks, Poultry, 1988, Public Sales, Horses, Mules, Milk atts. Sheep, Dogs, Farm Machinery, ectrical Equipment, Farm Supplies, eds, Field Seeds, Flower Seeds, Bulbs, 1988

Other service will be found under Help Wanted, Salesmen Wanted, Educational

Save both time and money by patron-izing Kansas Farmer advertisers in both classified and display advertising.

Be sure to say when you write, that you are referring to advertising you saw bublished in Kansas Farmer.

Classified Department Kansas Farmer, Topeka, Kansas

In Wild Strawberry Time

(Continued from Page 10)

raged mother bear rounded the building a flying form darted inside before she could strike it down, and the door crashed shut against her snarling, savagely grinning face.

And to her angry amazement the following instant the was assailed from behind by a screeching fury of teeth and claws. Immediately she found herself engaged in a battle to the death with a second enemy of whose approach she had received no warning.

with a second enemy of whose approach she had received no warning.

A LITTLE earlier this same day an ancient buckboard holding two young people deeply interested in each other crept over a seldom traveled backwoods road that skirted the eastern edge of the abandoned farm. The slender, pretty girl seated beside the sturdy youth who was driving looked up into his eyes shyly as he told her of his plans for the future. The plow-horse drawing the ramshackle vehicle happily was set and staid in his ways, else the young country swain could not have given so much of his gaze to the fresh, blue-eyed face upturned to his own. Both were lost in the pleasure of being together.

Jeff had jumped at the hint dropped by the girl's mother that Sally was to return home that day from her spell of nursing old Mis' Hammersmith over at Big Forks; and he had volunteered to go and get her. Big Jeff Tucker for many months had held certain well-defined ideas on these large plans of his which he had not yet come to in his telling of them. But perhaps Sally Ingalls was not as unaware of what they might be as he imagined. Jeff's eyes said much that his tongue found it difficult to frame. Now he was leading up to the most important phase of his dreams, for the opportunity he had long sought had come; and the time and place were an inspiration for the avowal.

An unclouded summer sun distilled from the red-fruited choke-cherry

An unclouded summer sun distilled from the red-fruited choke-cherry thickets and massed blooms of brier rose and wild raspberry lining the rutted tracks an essence that the light rutted tracks an essence that the light breezes dissolved into an unmatchable fragrance. And young blood was re-sponding to the urge of the perfumed air, vibrant with the notes of song sparrows and yellow-hammers that lighted on swaying milk-weed stalks and rose and lighted again further on as the buckboard with its absorbed occupants pursued them slowly along the winding road.

A Proposal Postponed

But the ancient vehicle was traitor But the ancient vehicle was traitor to the lover's cause. As it rolled over a "thank-you-marm" on the down grade of a hill the forward axle snapped and broke—and so did the thread of the young man's discourse. At the sudden lurch Jeff threw his arm around Sally's waist to prevent her falling forward upon the horse, who stopped in his tracks as the whiffle-tree came down about his heels. Sally's always blushing cheeks blushed redder with the contact, and she nimbly drew out the contact, and she nimbly drew out of his embrace and stepped to the ground. Jeff covered his lapse with a hasty examination of the wrecked ve-

ground. Jeff covered his lapse with a hasty examination of the wrecked vehicle and a string of mild expletives over the mishap.

"Durn the blame' thing! We can't get home in it now, Sally," he complained. "Wish I could fasten up that axle, but I haven't got any wire." He pondered over the situation for a moment. "Tell you what we'll have to do, Sally," he continued. "I'll tie Whitey here to the fence an' foot it back to the Forks an' get some baling wire; an' you can set here an' wait for me; I won't be gone more'n an hour."

"I reckon that's the best we can do," Sally agreed. "But tell you what, Jeff, instead of waitin' here I'll go over to the old deserted farm an' gather a mess of wild strawberries. It's only just across the rise yonder. There's lots of them growin' in the pasture lot and nobody hardly ever goes there berryin'. You can stop at home for supper and have some of them, too," she offered, smiling rosily.

Jeff grinned happily. "Now that's fine, Sally; you bet I will. And I've got an old grain bag under the seat you can pick them in." He fished it out, and handing it to Sally strode rapidly back along the road they had traveled.

(Concluded Next Issue)

DE LAVAT

THE Best Separators in YEARS OF LEADERSHIP

FIRST IN 1878

New World's Standard Series

MANY of these new De Lavals have already been put into use and their owners are most enthusiastic about them. They will separate more milk in less time, produce more cream of better quality, and are the easiest of all separators to run, operate and clean. They have many new features, combined with improved design and finish, making them the most attractive and beautiful cream separators ever made. See them at your De Laval Dealer's. Made in four sizes; hand, electric or belt drives. Sold on easy payments. belt drives. Sold on easy payments

HAVE YOU ENTERED DE LAVAL CONTEST?

Any farmer, or member of his family, having one or more cows is invited to enter this De Laval Contest, which runs until March 31, 1938. Prizes will be given for the best answers to a question shown on the "Official Entry Blank and Rules for De Laval Contest," which can be obtained only from local De Laval Dealers. Prizes will be divided as follows: \$1000.00 for the best answer; \$750.00 for the second best; \$500.00 for the third; \$250.00 for the fourth, and 10 additional prizes of No. 14 De Laval Separators.



BEST IN 1938

SLTURE AND

11 193

DATTAMPAGE

CS - KAHSAS

LIBRARY

A quality line of small capac-ity, low priced De Laval Euro-pean made separators. Splendid separators for the small dairy farmer — made in five sizes.

20 Years of Use Proves Superiority of De Laval Milkers

THE DE LAVAL SEPARATOR COMPANY SAN FRANCISCO



 ${
m ``I'D}$ suggest you order this gas washer now, because that hi-line may never come. But if it does, you can make this gas washer over into an electric, quickly and easily, at very little expense—by putting on a small electric motor.

"And, you can start saving time, a lot of backaches and money right now. Furthermore, this washer will save enough on wear and tear alone to more than pay its way. "The washing machine is the same whether powered by gasoline or electricity. One starts just as easily and quickly as the other — they have the same features — washing results are the same — each relieves you of the same amount of hard work.

"As for power — this washing machine has a Briggs & Stratton 4-cycle Gasoline Motor — built for a woman to operate. It assures you quick-starting — dependable and trouble-free service — long life and fuel economy.

"So again I say — order this gas washer now."

BRIGGS & STRATTON CORP., Milwaukee, Wis., U. S. A.

Make the Briggs & Stratton motor trade mark your guide when purchasing any small gassline powered equipment. Over a million now in farmuse testify to their dependability and economy.

Ask your dealer to show you the new washer models equipped with the famous Briggs & Stratton Start-Charger. The motor is cranked electrically by a step on the starter switch—like an automobile, and its specially designed generator charges radio and other storage batteries while doing the wash. CYCLE

BRIGGS & STRATTON

AUTHORIZED MOTOR SERVICE
The E. S. Cowie Electric Co., Amarillo Wightin



THE F. E. MYERS & BRO. CO.

727 Fourth Street Ashland, Ohio
Send free information on items checked and name of your nearest dealer.

ater Systems Centrifugal Pumps Power Sprayers Prover Pumps Power Sprayers Prover Sprayers Proventing Tools Door Hangers

Address







Provisions in Revised Farm Bill Of Special Interest to Kansas

Kansas Farmer's Washington Correspondent

AMONG provisions of the rewritten farm bill, which the House and the Senate took up this week—no one knows how long the debate on the conference report in the Senate will be—are several of particular interest to the farmers of Kansas.

The measure as anticipated con-

The measure, as anticipated, continues the Soil Conservation Act, provides in addition commodity loans on wheat, corn and cotton, provides also for marketing quotas, when surpluses reach certain levels for each of these commodities and when two thirds of the producers vote to put the quotas into effect.

One of the changes made in the Soil Conservation Program applies only to arid and semiarid regions. The change allows conservation and diversion payments to be made for "water conservation and the beneficial use of water on individual farms, including measures to prevent ruin of buildings or check dams and ponds, and providing facilities for applying water to the land." allows conservation and diversion pay

Insurance for Wheat Only

Included in the bill, as a separate title, is the Federal Crop Insurance Act, applying to wheat only, and to go into effect next July 1. It authorizes a total appropriation of 100 million dol-lars for purchase by the Government of stock in the Federal Crop Insurance Corporation, of which not more than 20 million may be appropriated for the next fiscal year.

Crop insurance on a bushelage basis,

Crop insurance on a bushelage basis, based on experience the last 10 years on the farm and in the county in which the wheat farm is located, will be offered to wheat growers. The act does not propose to insure income, but only to insure the farmer, who elects to pay the premiums, against loss of more than 25 per cent of the normal yield on the accesses insured.

than 25 per cent of the normal yield on the acreage insured.

In the local administration of the act the 3 members of the county committee shall be named by delegates from each local committee in the county. The county agent will sit with the county committee, may be elected secretary, but will have no vote. The state committee, from three to five members, will be named by the Secretary of Agriculture.

More Money for Small Farmer

Changes in the present act affecting payments to individual farmers include larger payments for small farmers, and limit total payments to any "individual or corporation" to \$10,-000 a year in any one state.

Hikes for small farmers are on the following scale: Any farmer whose payment under the act was less than \$20 will get an additional 40 per cent between \$20 and \$40; additional \$8 plus 20 per cent of excess over \$20; between \$40 and \$60, additional \$12 plus 10 per cent of excess over \$40; more than \$60 but not more than \$186 additional \$14; between \$186 and \$200, increased to \$200.

Wheat growers who sign contracts will not be required to reduce acreage during 1938, the wording of this provision being "the farm acreage allotments shall be made for wheat in 1938, but in determining compliance wheat shall be considered in the group with other crops for which special acreage allotments shall not be made."

Highlights of the provisions for commodity loans on wheat, corn and cotton are these:

Commodity Credit Corporation, upon

ton are these:

Commodity Credit Corporation, upon recommendation of the Secretary of Agriculture with approval of the Presi-dent, is authorized to make loans on agricultural commodities, including dairy products. Amount, terms and conditions shall be fixed by the Sec-

In addition to these discretionary loans, mandatory loans for wheat, corn and cotton are provided under certain conditions.

Whenever the price of wheat on June 15, is below 52 per cent of parity (parity now is about \$1.16), or if the July crop estimate for wheat is more than a normal year's domestic consumption plus exports, then loans to

co-operators are mandatory, the amount to be between 52 and 75 per cent of parity. When marketing quotas are in effect, nonco-operators will be entitled to loans, but only to 60 per cent of the amount per unit lent to co-operators; loans to nonco-operators also are limited to that part of his wheat subject to penalty if marketed. The mandatory loan provisions for cotton are the same as for wheat.

Loans on Corn Are Different

Corn loans are on a different basis. They are to be available whenever the November crop estimate shows an excess of corn beyond ordinary domestic

consumption plus exports, or if the price is below 75 per cent of parity.

The corn loan shall be 75 per cent of parity if the estimate does not ex-

The corn loan shall be 75 per cent of parity if the estimate does not exceed normal year's consumption and exports, and the price is below 75 per cent of parity.

Loans will be 70 per cent of parity if estimate exceeds normal consumption by not more than 10 per cent.

Loan will be 65 per cent of parity when excess over normal consumption is between 10 and 15 per cent; 60 per cent of parity for excess of between 15 and 20 per cent; 55 per cent of parity between 20 and 25 per cent excess over normal consumption; and 52 per cent of parity when excess over normal domestic consumption plus exports is more than 25 per cent.

These corn loans are available for corn growers in the commercial cornproducing area at the foregoing rates; to nonco-operators in the commercial area only when marketing quotas are in effect, and then only at 60 per cent of the amount available to co-operators.

Outside the commercial corn pro-

Outside the commercial corn ducing area co-operators are entitled to loans at 75 per cent of the rate af-forded co-operators in the commercial

area.

If producers vote down marketing quotas when a referendum is held on whether these shall be imposed, then the loans shall not be made during that marketing year—but loans already made may be renewed.

Parity payments in addition to con-

Parity payments in addition to con-servation payments—an adjusted dif-ference between market price and par-ity price for co-operators—are author-ized if and when Congress makes appropriations for that purpose. The Administration program at present calls for imposition of processing taxes to pay the cost of such parity payments to wheat, cotton, corn, rice or tobacco

Protected on Deficiency Judgments

Producers are protected against deliable for anything except the com-modity pledged as security, unless the loan was obtained thru fraudulent mis-

representation by the producer.

Marketing quota provisions for corn
will go into effect—unless one-third of will go into effect—unless one-third of the producers in the commercial area vote in a referendum against the quotas going into effect—when the Secretary finds that the total supply of corn is 10 more than the normal supply on October 1, of any year. Normal for corn, cotton, wheat is a year's normal domestic consumption

plus exports, plus 7 per cent in the case of corn, 40 per cent in the case of cotton, and 15 per cent in the case of wheat. The foregoing are "carry-over" allowances. The total supply is the carry-over in a commodity plus the estimated production of the commodity cluring calendar waar in which the mar-

estimated production of the commodity during calendar year in which the marketing year begins.

The commercial corn producing area shall include all counties in which the average production of corn—excluding corn used as silage—during the 10 calendar years preceding, after adjustment for abnormal weather conditions, is 450 bushels or more to the farm and is 450 bushels or more to the farm and 4 bushels or more for each acre of farm land in the county. Within 10 days after the act is passed, thereafter on February 1, the Secretary shall proclaim what counties are in the commercial corn producing area.



RED BRAND fences help you enrich your farm, get bigger yields, through rotation of crops and livestock over every field. They save you money, too, because they last so long.

Time Tested QUALITY

Extra thick "Galvannealed" Extra thick "Galvannealed" zinc coating and copper-bearing steel wire have been proved by years of fenc-line service on thousands of farms.

LOOK FOR THE RED TOP WIRE







WESTERN TRACTOR SHOW See the "Jacobs" plants on display . . . plants on display . . . FEBRUARY 22 - 25 WICHITA,

A size and price for every farm. New low priced 1938 model now available.

The Jacobs Wind Electric Co., Inc.



TRY an advertisement in the Kansas Farmer Market Place

No farm marketing quotas with re-pect to corn shall be imposed on a arm which normally produces less han 300 bushels a year. The farm marketing quota, if and then marketing quotas are imposed, cill be the amount used as silage, plus he actual production of acreage of norn not used as silage, less than the mount allowed for farm consumption, set the storage amount found appliable to that farm.

The storage amount just mentioned all be the number of bushels equal the smallest of the following ounts:

1)-Normal production in excess of he marketing percentage of the farm greage allotment (the marketing per-entage will be given in the market-

ang quota proclamation submitted to a proclamation submitted to a producers for referendum vote);

(2)—The amount by which the actual production of the farm exceeds a production of the marketing ercentage of the farm acreage alternative.

iment;
(3)—The amount of the actual prouction of the acreage of the farm not

sed for silage.

In addition, the local committee, fter notice of hearing, shall declare further reduction in the storage mount equal the number of bushels equired for farm consumption, storage amounts of less than 100 bushels hall not be considered. all not be considered.

Y

ire ic-ns.

3

C

every

e

938

The penalty for marketing corn in excess of the marketing quota for that arm will be 15 cents a bushel. As long is the farmer has stored under seal his per storage amount, he will not be arded as having marketed in excess

I his quota.

Marketing quotas for wheat may be mosed by referendum—as in the case form—when the Secretary finds that he total supply is more than 35 per ent in excess of a normal year's doestic consumption and export. Total

supply is prospective crop plus carry-

over.

The marketing quota for wheat will the marketing quota for wheat will the marketing quota for wheat will be marketing quota for which w The marketing quota for wheat will be the normal year's domestic consumption plus export plus 30 per cent. Individual farms will be assigned quotas by the local committee on this basis, after the state committee has assigned county quotas and the Secretary has assigned state quotas. Penalty for marketing in excess of the quota will be 15 cents a bushel. No farm's marketing quota can be reduced to less than the normal production of half the farm acreage allotment.

The cotton provisions are rather more complicated than either wheat or corn, in attempting to protect the small grower—production from less than 5 acres is entirely exempt, for instance. The cotton penalty is 2 cents a pound.

When Quotas Are Effective

When Quotas Are Effective

When Quotas Are Effective

The effect of the language used in defining conditions under which marketing quotas shall be imposed is that referenda shall be held when the total supply of wheat at the beginning of a marketing year is more than 940 million bushels; the total supply of corn more than 2,700,000 bushels; of cotton at 19½ million bales.

The Boileau (dairy groups) amendment has been modified so that it applies to dairy cattle only. Diverted acres may not be used to provide feed or pasture for dairy cattle to produce for market on farms where the number of dairy cattle has been increased beyond the normal number if the farm is in a county where the number has

beyond the normal number if the farm is in a county where the number has been increased.

In other words, diverted acres used to feed dairy cattle shall not deprive the co-operator of his diversion payments, unless he has increased the number of his dairy cattle used for market purposes and the county in which his farm is located also has increased the number of dairy cattle.

Stealing Old Stuff

(Continued from Page 6)

roller to held them under the burden to that it would not be necessary to pick the roller up behind and put it in front again. Or again maybe it was a lazy fellow. This worked better but still there was a lot of friction. So the middle section was cut away making a crude axle. In some places in the world we still have this type of wheel lurning with the axle. The next step was to cut away part of the wheel to lighten the whole thing, again to make ess work. It was a long time before pokes were used. In China today a type of wheel made in an "H" form in common use.

ype of wheel made in an "H" form in common use.

Just where the wheel was invented a disputed question. In the civilizations of the New World, the Incas, dayas or Aztecs, there was no wheel. The Egyptians were fairly late in activing it and adopted it long after hey knew the plow. The wheel probably was invented only once, somewhere in Southeastern Asia, and its use pread to all the world. Wagon wheels of about 500 B. C. have been dug up at Dejbjerg, in Jutland, and now are in the Copenhagen museum. These were not made of separate short pieces put ogether, but are turned in a circle out

f a single block of wood.

Like many other inventions, the block found ready use in warfare. In the lariots were great weapons for the syptians and Assyrians. But they all more noble uses as they were honged means of carrying leaders and troes and played a big part in many eligious ceremonies.

A Need for Harvesters

A Need for Harvesters

The early agricultural implements sentioned have been for tilling the oil only. As fields became larger and here were more people in the cities to ted, it became necessary to devise licker means of harvesting crops. In he New World, where corn was king, his was not necessary and corn hartsters are only a recent invention. In the land of wheat, it was more tork. The first sickle to cut grain was lade of bone or stone, but in the konze Age blades were cast from the hand sickle is centuries old. The fomans put longer handles on their lades and were able to stand up and like a wider swath.

The early Gauls developed a sort of faith the care and were abled to every which

the early Gauls developed a sort of ader-reaper pulled by oxen which, cording to Roman reports of the

implement, was something like our modern reaper. But during the Dark Ages the hand sickle was the common tool. The scythe, which later developed into the cradle which we all know, was used up until the Agricultural Revolution and numerous inventors turned their wits on the problem of reapers. Threshing also was a problem. Tramping around on a pile of the cut grain with bare feet was one method. Oxen and animals also were used to tramp the grain. A sort of sled drug by oxen was another primitive method. The flail, which we consider pretty

tramp the grain. A sort of sled drug by oxen was another primitive method. The flail, which we consider pretty primitive, was not known until the Middle Ages. It is not known just when or where it was first used. It consisted, as most of us know, of two pieces hinged together, and was used to beat the grain from the hulls. The chaff was senerated from the wain by letting it. separated from the grain by letting it drop and the wind, either natural or artificial, blew the chaff away. The flail was used until threshers came into

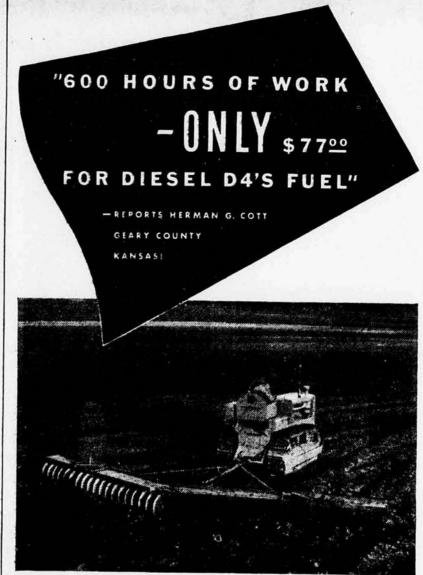
Principles Found by Ancients

Many principles of our farm implements have early histories. For instance, the lever is thought to have been known as early as the stone age. At any rate the Egyptians knew its use and utilized it in building the pyramids. Archimedes, a Greek inventor credited with numerous inventions, once said to his king, "Give me a place to stand and I will move the earth." Incidentally, this Greek created a device used on every threshing machine to elevate the grain. This spiral device, something like an endless screw, was invented to empty the hold of a ship of water.

was invented to empty the hold of a ship of water.

The cog wheel, an essential on most of our modern machinery, probably was developed in Egypt. We must give the same country credit for the fly wheel. Early rope makers used it to keep their rope rotating continuously. The Egyptian flywheel also is found in the Orient, where it is used to keep in rotation the little prayer drums in the hands of the faithful. Balance scales were another Egyptian invenscales were another Egyptian inven-

Most interesting is as early use of the ball bearing principle. Remains of an old ship have been dug up in Lake Nemi, in Italy, which had a ball bear-ing apparatus revolving a pavilion to keep the commander of the ship in the shade.



Mr. Cott's Diesel D4 disks 6 acres per hour on less than 1½ gallons of low-cost fuel!

Herman G. Cott, Geary County, Kansas, bought his "Caterpillar" Diesel D4 Tractor too late for a full season's work in 1937. But it did plenty to prove its fuel economy and non-slip traction.

For example, Mr. Cott's Diesel D4 moldboard plowed 800 acres, double-disked 200, combined 200, lister-planted 200 and cultivated 150 acres of listed corn. Operating 600 hours (sixty 10-hour days), to do all of this work, this tractor used only \$77.00 worth of Diesel fuel!

"I have particularly noticed how

well this tractor works on listed ridges," states Mr. Cott. "The tracks fit the row spacing, and the machine's light tread does not mash down even the sandy ridges.

"Our soil varies considerably in this area. We have heavy land, and sandy places all in the same field. With the 'Caterpillar' tracktype Tractor, it all looks alike."

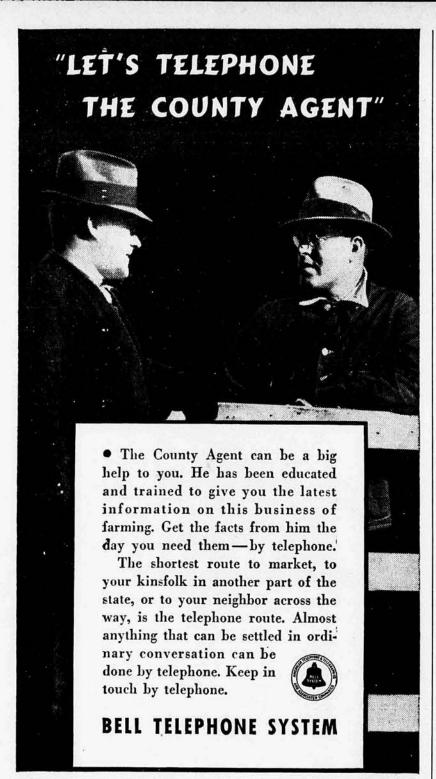
The 5-6 plow Diesel D4 ordinarily saves \$350.00 to \$500.00 on fuel alone for Kansas owners. Let the coupon bring you further facts on "Caterpillar" track-type Tractors.

CATERPILLAR

TRACTOR CO. + PEORIA, ILL.

DIESEL ENGINES TRACK-TYPE TRACTORS TERRACERS

| Gentlemen: I farm | acres. My power is | |
|-------------------|----------------------------------|--|
| | ack-type Tractor profitably on m | |
| Name | Tagle, But 1 | |
| | Town | |



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.

\$5,000,000

Capper Publications, Inc. Topeka, Kansas

First Mortgage 4% Certificates (6-month)

First Mortgage 41/2% Bonds (1-year)

First Mortgage 5% Bonds (5-year)

First Mortgage 51/2% Bonds (10-year)

Denominations \$50.00, \$100.00, \$500.00 and \$1,000.00. Copies of the Prospectus may be obtained by writing to Dept. KF, CAPPER PUBLICATIONS, Inc., Topeka, Kan.

Valentines for the Barnyard Folks

WHAT a surprise the Barnyard Folks are going to have on Valentine's Day! Jimmy Guinea told Leila Lee that, with your help, his valentines for the Barnyard Folks this valentines for the Barnyard Folks this year are the best ever. He received many, many valentine verses from all his little friends, and he wants to thank every one of you for helping him out. Jimmy and the judges decided that Joy George, Route 2, North Topeka, and Dean Lignitz, Haddam, sent in the best verses, so they each win a prize of \$1. Joy sent in 10 verses, and Dean 5, and all their verses were very good. Here are some of their verses:

Pudgy Porker, You're a corker! The more you eat The fatter your meat.

Henrietta Hen Sat in her pen, Eating mash by the keg,

Henrietta Hen: Cackle, cackle, where you go, When you stop, nobody knows. Lay an egg 'most every day. That will keep the axe away.

Mildred Cow, you had better try,
To make your milk test way up high.
Or you may be sold at a market,
And be carried home in a basket.
—Dean Lignitz.

Here are some other verses the judges thought were good:

You like to jump, you like to run, You like to gallop and have your fun, But Calvin, is your head as active, too? Then guess who sent this valentine

-Bobby Bayer, Garden City.

Grandpa Whiteface, you're a sight, We'd think you owned this farm, To hear you bellow, snort and stomp, Worse than a thunder storm.

—Minnie Knudsen, Frankfort.

Around the corner I took a peep,
And who was there, but Charlie Sheep.
He was running, and jumping and
feeling so gay,
That I figured his mother must be

-Donald Hinricks, Leonardville.

Jimmy Guinea: Trickery is all you think about, If the others get after you, you pout, So you better not do it very much more the others will throw you out of the door.

-John Stepanich, Cherryvale.

Of course, Jimmy Guinea received verses for Harold Calf, Tobias Turkey, Wackie Duck and Mac Goat, too; however, we don't have space to print all the verses here, but plan to use a good many of them in future issues of Kansas Farmer. So watch for the verses sent in by the following girls and boys, who received honorable mention in the contest: Mary C. Manly, Frankfort; Marjorie, Esther and Wayne King, Burlington; Betty Wright, Haddam; Doris Fordice, North Topeka; Helen Asp, Genoa, Colo.;



THIS BIG LINER IS SENDING-OUT DISTRESS SIGNALS.... CAN YOU PUT THE FOLLOWING LETTERS TOGETHER AND SEE WHAT'S WRONG? RONUGDED NO RFEE

New Contest Coming

In the next issue of Kansas Farmer, you will meet Uncle Cordy Clever, a favorite pal of Clara and Carl Clever. A new kind of contest will be announced. You'll like Uncle Cordy, and we hope you try out in the contest. Watch for the next issue!—Leila Lee.

Helen Laird, Harper; Roy Wright, Haddam; Rowena Urie, Deerfield; Elizabeth B. Parks, Parker; Doris Lignitz, Haddam; Martha Lee Neal, Elkader; Aletha Coleman, New Castle, Colo.; Ulva May Calvert, Mason City, Ia.; Adeline Kasselman, Ellinwood.

We'd Like You to Meet-

Doris Fordice, North Topeka

"I am 10 years old, have brown hair and brown eyes. I have one brother and one sister. They both go to high school, I am in the fifth grade and go to Capi-tal School. My teacher is Miss Mar-shall. There are 13 pupils in my school."

Helen Asp, Genoa, Colo.

"I am 13 years old. I am not going to school because I have been sick in bed with heart trouble for a whole year. I love to read papers, books, and like to write and receive letters. I like very much to live here on the farm, and like to milk cows, help with the house work, and so on. But, of course, I am not able to do anything like that until I get better."

Elizabeth B. Parks, Parker

"I am a Jayhawker, living in Linn county. I go to Pleasant Home school, am 12 years old and in the seventh grade. I have several nice pets. Monkeyface is a big yellow cat; Buster, a shepherd-collie puppy, and I have 6 white ducks. One of my ducks lays an egg every day now. I also have a big roan cow and her two daughters, one son and a granddaughter. Their names are Roanie, the cow, Rose. Tillie. King are Roanie, the cow, Rose, Tillie, King Tut and Rosa Lee."

Adeline Kasselman, Ellinwood

Adeline Kasselman, Ellinwood

"I am 13 years old. I go to the Pleasant School, District 74. My teacher's name is Miss Unruh. I am in the eighth grade and expect to go to high school next year, if I pass. I have a brother and sister, who are both older than I. Their names are Esther and Jack. My brother is married and lives on the farm, and my sister teaches school. My pet dog's name is Fritze. He is brown and white, and is about a foothigh."

Won't you write us a letter, telling a bit about yourself, so we can print it here? We'd like to hear from you. —Leila Lee.

Know Your Kansas

How well acquainted are you with the counties of Kansas? Here is the first of a puzzle series, each question to be answered by naming a Kansas county. See how many you and the family can name, then turn to page 33 and grade yourself. Watch for the next set, which will be printed soon:

(1) What county in Kansas is a cat?

(2) What county is a berry?

(3) What county is a car? (4) What county is a hair cutter? (5) What county plays a musical strument?

(6) What county is in a hurry?
(7) What county is a path?
(8) What county isn't telling the truth?

(9) What county is a cereal? (10) What county means to darken?

History Repeats

Centuries ago, Cleopatra, famous Egyptian queen, wore copper and bronze ornaments. Since that time, popularity of copper and bronze ornaments has gone up and down, but style notes show these age-old metals will be more fashionable than ever this year.

These Dos and Don'ts of Tractor Care Have Been Farm Proved

If the lubricating oil only partially performs its function, wear takes place gradually and it will take some time before the ill effects of faulty lubritation begin to show up. Thus the fact hat the lubricating oil apparently is giving satisfaction is no guarantee hat it is entirely satisfactory for use in the motor as the ill effects may how up at a later time.

The trend in tractor lubrication is sward the use of lighter oils. Im-

The trend in tractor lubrication is loward the use of lighter oils. Improved lubrication systems, less clearness, better cooling, use of protective equipment, better fuels and better oils, all are responsible for this hange. Lighter oils have the advange of flowing more freely and will to a better job of protecting the entire during the warming up period. On old "Kerosene Annie" it was the ommon practice to turn the sight feed ubricator several revolutions by hand efore starting the tractor. This proded lubrication during the warming led lubrication during the warming

Doris Neal,

City,

hair

r and chool, Capi-Mar-100l."

going ck in whole

farm, the farm, the ourse, that

Linn
chool,
yenth
Monter, a
tve 6
ys an
a big
, one
ames
King

leas-her's ighth chool

other an I. Jack n the

He is

elling

with s the stion insas I the ge 33 next

and time,

A general rule to follow in select-A general rule to follow in selecting a motor oil is to use the lightest grade which will properly seal the pisons and separate the wearing parts. Experiments have proved that an oil which is too heavy will increase the uel consumption, and the added cost of the fuel usually is more than the attra cost of using a lighter oil.

Changing Crankcase Oil

Changing Crankcase Oil

Of all the specifications relating to alls, the most important for the tracor operator to consider is that of viscosity number. Viscosity number is not in indication of quality but merely ells how heavy the oil is, or is the number which denotes the fluidity of the oil. The larger the number, the eavier the oil. The viscosity numbers ange from 10-W to 60 or 70. The tracor instruction books and lubrication teommendations supplied by reputate oil companies designate the proper rade of oil to use.

In use, the crankcase oil becomes contaminated with particles of burned arbon, fine dust particles, and unumed fuel. The oil in the tractor moor should be changed at stated interals, usually every 60 hours, but more then when operated under extremely eavy loads or dusty conditions. It is to be expected that a tractor motor hen operating under good conditions, will use some oil. Therefore, it is adisable to check the oil level at least very half day, or oftener. A generally ecommended practice for controlling llution when using heavier fuels, is that of partially draining the crankase at the end of every 10-hour period and refilling to the proper level of the is used when a heavier fuel is sed in the two-fuel tractor.

How Oil Filters Work

How Oil Filters Work

Many farm tractors are equipped with oil filters. The filters which are commonly used on modern farm tractors are of the all-filter type; that is, il the oil is supposed to pass thru the liter before it goes to the bearings, he tractor owner, when buying a new ractor, often learns how all the oil asses thru the filter before it goes to be bearings, but sometimes fails to emember that the filter is equipped with a by-pass valve so that if the ele-



ts, lady, I think it's awful cute, too, but you'll hafte meil your letters in town."

ment is not cleaned regularly to prevent plugging, the by-pass valve will open and the bearings still will be supplied with sufficient lubrication. Farmers often become worried when they take the oil filter on their tractor apart and find a thick deposit on the filter element; they cannot understand how enough oil to provide proper lubrication can pass thru this dirty element. Such conditions often result in oil complaints which would not arise if the operator understood how the filter worked.

Most oil filters have a metal element.

the operator understood how the filter worked.

Most oil filters have a metal element which has a .003 inch spacing for filtering the oil. In service, these elements are very ineffective until they become coated with a thin deposit which acts as a binder and an additional filtering bed.

Laboratory tests conducted on used crankcase oils taken from tractors, show that where a deposit is found on the filter, the used crankcase oil usually contains very little fine dust particles, but where no deposit is found on the filter more dust particles will be found in used oil. In cases where heavy loads and dusty conditions are encountered, it is advisable to clean the oil filter every day.

About 1 gallon of water is formed and passed off in exhaust gases for every gallon of fuel burned. In cold weather, piston blow-by will allow some water vapor to enter the crankcase where it will be condensed. By cleaning the filter every day, the operator will prevent accumulation of much water which often results in sludge formation and clogging of oil lines.

Tractor Transmission Needs Care

Tractor Transmission Needs Care

Tractor transmissions also should receive some care and be properly lubricated. It is recommended that the oil be checked at least once every week and be replenished if not up to the proper level. Most engineers recommend that the oil in the transmission be changed at least once a year. When tractors are operated only a few hours during cold weather, the proper viscosity of transmission oil can be obtained for this limited service by diluting the transmission oil with 10 per cent kerosene. It is very important that a light transmission oil be used in cold weather or the oil will channel and not be carried up to the bearings.

Whenever the transmission oil has been thinned for winter operation, it is important that it be drained and replaced with the proper grade of transmission oil before the heavy spring plowing season begins.

plowing season begins.

Care of Front Wheel Bearings

Care of Front Wheel Bearings

Front wheel bearings on farm tractors also should be given regular service. Most of the front wheel bearings are so constructed that dirt is carried out of the bearings by grease which works out around the inner dust seal. When lubricating such bearings it is important that enough grease be forced into the wheel so that a small amount works out around the inner side of the hub and carries out the dirt. The front wheel bearing should be carefully watched for end play and if any end play is noticed, the front wheel should be jacked up and the bearing adjusted. To adjust the front wheel bearings, tighten the lock nut until the wheel drags, then back off the lock nut about one-sixth of a turn. At least once a year the front wheel bearing should be removed and washed in gasoline or kerosene. Remove the old grease in the wheel and repack it with new grease. If the inner dust seal is removed it should be replaced with a new one. All dust seals on the front wheels should be inspected every time the wheel is removed and replaced if they show signs of wear.

Tractor owners who wish to operate their tractors efficiently should read their instruction book carefully, select a good motor oil, use a good fuel, service the tractor regularly, warm it up before putting it under load, and when using a heavy fuel the cooling water should be kept near the boiling point. Correct carburetor adjustment and running the motor hot will do much to prevent wear and increase the efficiency of burning the fuel. Front wheel bearings on farm trac-

THE NEW

IMPROVED FORDSON

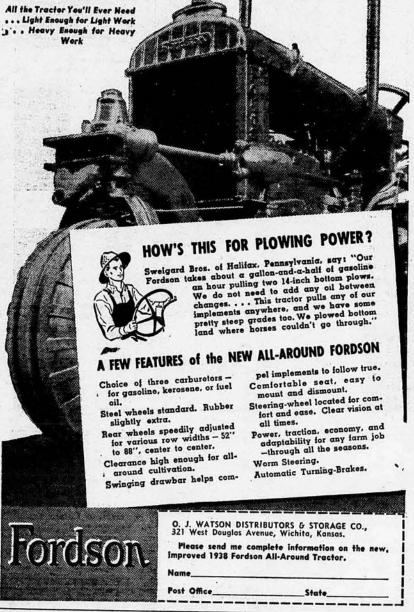
... READY FOR ANY JOB!

THE 1938 Fordson All-Around Tractor, however, has not been rebuilt from the ground up. For it would be crazy to change all the fine features that made Fordson famous.

Everything about this tractor has been proved-in the fields and around the barnyard. The only changes are those that should have been made. Nothing was done just to give something new to talk about. It's not an experiment!

Originally built to do an all-farm job, the Fordson is still built for that. It saves you from owning a team of tractors. It can do featherweight jobs, and pull like "all get out" on heavy work!

Here's a tractor for cultivating, beltwork and pulling. It can be serviced in any city or town by Fordson or Ford dealers. It has the dependability. power and economy that go with the Ford name . . . plus 1938's improvements which include Worm Steering and Automatic Turning-Brakes! Mail the coupon for full details of this great machine.



Tongue Lock Concrete Stave Silos



have proven by constant use for more than two decades the outstanding silo on the market.

With large discounts given new for orders, do not delay, but write us at once for in-formation.

THE McPHERSON CONCRETE PRODUCTS CO.

Special '37 Rifle Cal 30-06

refinished and proof tested. Used selected, heat treated receiver, properly heed spaced, or Legion Posts and Hunting, Length 44", a., shipping weight 16 lbs. Price \$18. New 6 pages for 56 cents, user for 3e stamp.



Grinds any feed—green, wet or dry. This feeder really takes in loose roughage, bundles or bale flakes and no monkey business about it. Largo capacity guaranteed with ordinary farm tractor, Grinds grain, ear or snapped corn with roughage or separate. Has cutter head and swing hammers. Get full information on this real honest-to-goodness Grinder. Write

Western Land Roller Co., Box 135 Hastings, Reb.
Distributors for Missouri and Ransas
ANN ARBOR-KLUGHARTT SALES CO.,

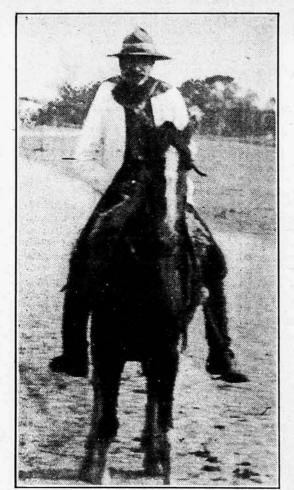
LARGE SI.OO TUBE

TRIAL OFFER—FOR 10 CENTS

PHE sufferers may get this full-size \$1
tube by merely sending 10c to cover postage and incidental charges. This is the
well-known private-formula Ointment used PHLE sufferers may get this full-size tube by merely sending 10c to cover page and incidental charges. This is well-known private-formula Ontment to adjunctively in our own Clinic.

adjunctively in our own Clinic.

THE McCLEARY CLINIC
2778 Elus Sivd. Excelsior Springs, Mo.



An old cow hand from the Rio Plate.

The tenth of a series of travel adventures of a Corn Belt farmer in South America.

The republic of Uruguay is only a little larger than the state of Minnesota, but the climate, the soil and the people combine to make it one of the leading livestock countries of South America. The seasons are the opposite of our own. July is the coldest month, with an average temperature of 55 degrees. Livestock has green pasture the year 'round. January, the hottest month, has an average temperature of 80 degrees, and early in the morning there is just enough chill in the air to make a coat feel comfortable. In this cool climate there are fewer of the parasites that make stock raising in the tropical countries a more or less hazardous business.

The mountain range along the coast of Brazil flattens out before it reaches the Uruguay border and the level grass-covered plains are only a little above sea level. Thus there is no barrier against the moisture-ladened winds that sweep in from the sea and the rainfall is ample. The topsoil does not average more than 2 feet in depth and is generally underlaid with rock. In many places this rock crops out on the surface and this has prevented a general "plowing up" of the country, such as has taken place on the fertile plains of Argentina. Ninety-five per cent of Uruguay's exports still are meat or meat products.

The people of Uruguay all seem to want to live in the cities and one-third of the entire population of the country resides in the city of Montevideo. In addition, there are several other fair-sized cities. The result is a small rural population and the land mostly held in great entancias (ranches). At the Montevideo livestock market I was told of one estanciero (ranchman) who sold his wool clip for 1 million pesos. The next week he sold 6,000 head of 4-year-old steers at 47 pesos a head, and the following week, 3,000 head of 3-year-olds at 30 pesos. Not a bad month's business, even if the Uruguayan peso is worth only 30 cents in U. S. exchange.

MOST of the estancieros are of Spanish Basque blood, and the Basques have been stockmen for generations. In addition, they probably are the proudest people in the world. All business transactions are "Honrar de Basque" (honor of a Basque). There are no written contracts and no peso ever changes hands to bind the bargain. Mr. Doyle of "Frigorifico Armour" told me of buying 6,000 head of cattle on one estancia for future delivery. Cattle prices suddenly bounded upward by 20 pesos a head, but the cattle were delivered without a whimper. It was in Mr. Doyle's company that I visited the

It was in Mr. Doyle's company that I visited the Montevideo cattle market, which probably is the only one of its kind in the world. Three United Statesowned and one English-owned packing plants have buyers; there also are several "saladeros"—plants for the drying and curing of salt "jerky." The only market buildings are a shed for saddle horses and a long, 1-story building that is equally divided be-

A Pen-less Cattle Market

No One Doubts the Honesty of Uruguay's Ranchers— Who Are Raising Beef Every Bit as Good as Ours

By ROBERT C. VANCE

tween a restaurant and a general assembly room where the only furniture is desks, slung against the wall, where checks may be written. Despite the fact that more than 1 million head of cattle pass thru this market every year, there is not a stock pen of any kind. Herds that are unloaded from the trains or driven in from the trail are held separate by the mounted employees of the stockyard until they are sold. The buyers ride from herd to herd making their bids. When a herd is sold it immediately is started down the road to the "frigorifico."

"Remember, you are dealing with Basques," Doyle said, having noted the camera slung on my shoulder. "I once saw a tourist get his camera smashed over his head for snapping a picture without asking permission." An attendant led 2 horses out of the shed. When Doyle saw that I mounted on the left side and neck-reined my horse instead of hauling at the rein, he rode off and left me to my own devices.

own devices.

The "Zebu" cattle of Brazil had dulled my appetite for South American beef, but as I rode thru this market, I saw that Uruguay beef was something else again. Reds, roans and Whitefaces—these cattle were as well bred as anything that ever came out of Kansas. They carried plenty of fat but it was all grass fat. This part of the world regards corn as human food and very little of it is fed to the animals.

My horse probably had put in a good many years carrying cattle buyers. He seemed to have his own ideas as to how much time should be taken in dickering for a bunch of cattle. When this time had passed he would get fidgety and impatient to move on. As the Uruguayan saddle has no horn or cantle, I didn't argue with him but let him have his own way. The result was that I spent the morning talking with the people that my horse thought I should interview, which proved to be as good a way of arriving at a cross section of general impressions as any.

AS IN OUR own country, the cattle business of the pampas has developed a costume peculiar to itself. The pampas sun does not have the glare and heat common to our western plains, so the 10-gallon hat is unnecessary. The gaucho (cowboy) usually wears a narrow brimmed felt hat. In lieu of a coat, he wears a "pancho," which is a blanket with a slit in the center to thrust the head thru.

Very loose and baggy trousers, "bombachas" are worn tucked into knee-high boots. The bombachas have no pockets but he wears a wide leather belt with pouches attached to carry money and tobacco. The belts are decorated with brass studs or with sewed-on copper and silver coins. A sheath knife is worn, thrust under the belt squarely in the center of the back. The knife is as much a part of the riding costume as are the boots, and the young dandies

who canter along the streets of Montevideo with n_0 more serious purpose in life than getting some fresh air all carry knives.

I do not recall having seen a pair of spurs in the entire Rio Plate region but all carry riding crops. The saddle is simply a frame with attached stirrups and is padded up with sheepskins. These sheepskins serve as a bed when the gaucho spends the night in camp. Where a lasso is used, the end is tied to the cinch ring but about half of the gauchos still cling to the "bolas." The bola is three lead weights, about the size of a baseball, fastened together with rawhide thongs. When thrown, the weights carry the thongs around the legs of the running animal and throw it.

As the morning passed I began to feel grateful toward my impatient horse. It was much easier to let him carry me away than to put up arguments, in halting Spanish, in defense of the United States sanitation regulations.

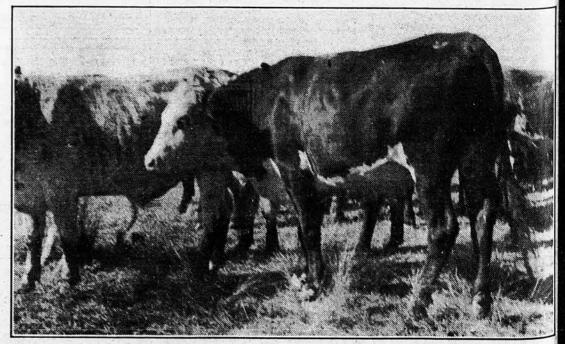
NEARLY all South America is infested with footmand-mouth disease and the U. S. Bureau of Animal Industry will not allow meat to be imported into the United States unless it has first been boned and cooked. This means that the choice Rio Plate beef must be canned before it is shipped into the United States. The canned meat that is sold in the United States must pay an import duty of 6 cents a pound, but it is automatically barred from competition with anything except the very cheapest grade of beef.

The Rio Plate estanciero regards the U. S. regulations as a personal affront. He knows that he is raising some of the best beef in the world and he resents having to sell it as "canner" grade. If he can back you into a corner where there is no escape he relieves his mind something like this:

relieves his mind something like this:

"England and Germany accept our chilled beef, but to sell in the United States we must put this meat into cans. Foot-and-mouth disease! There has never been a case of it south of the Rio Negro, yet you refuse to accept chilled beef from that district. Que Caramba, senor, it is simply that you do not want our beef. You are ashamed to raise the tariff over 6 cents a pound so you are hiding behind this sanitation thing. Meat is all we have to sell. How do you expect us to buy goods that are manufactured in North America if you will not take our beef in exchange?"

The estanciero's complaint is echoed by the businessman of the city. "Go out on the street and look over the automobiles," a banker in Montevideo told me. "You will find that practically every car that is less than 3 years old was made in the United States. Every car that is more than 3 years old was made in Germany or England. Do you know what is selling your cars down here now? It's the drouth. When the dry weather burned up your crops and pastures,



Reds, Roans and Whitefaces—the cattle were as well bred as anything that ever came off our own western ranges

e price of beef went up, until we pld ship our beef into the United ates over a 6-cent tariff wall, even we did have to sell it in cans. Last or there were 86 million pounds of a shipped into the United States om the Rio Plate ports. That beef is paid for in goods manufactured in a United States."

How about the farmer and stock-in in the United States?" I asked in "That 86 million pounds is a lot beef, especially when it is shipped from some foreign country to com-te with the beef that is raised by our in stockmen."

ith no fresh in the

crops. rrups oskins ght in

cling about

raw. y the l and

ateful ier to its, in States

foot-f Ani-d into d and

beef nited nited

ound, tition de of

regu-he is he ree can pe he

t this e has o, yet strict.

o not tariff

How

e our busil look told

tates. made

then figure it this way," he an-ed. "Your country has a popula-of more than 136 million. That 86 greet. Your country has a populanot more than 136 million. That 86
lifting pounds of beef is slightly more
in 1/2 pound to the person. When
if workmen are employed they are
thing plenty of meat. Manufactured
dos sold to us helps to keep the
gels turning. As for competition
th your own stockmen, remember
at they have the advantage of a 6tariff. We are not asking that this
lift be lowered. But we do wish to
lour good Rio Plate beef in roasts
at steaks instead of in cans."
And just how can we let you ship in
the roasts and steaks without danger
bringing foot-and-mouth to our own
the?" I asked that question a good
my times in the next 30 days, but
sman seemed to have a clearer view
the matter than any other person I
erviewed.
One plan would be for the II S. Ru-

the matter than any other person. erviewed.

One plan would be for the U. S. Buju of Animal Industry to establish ided warehouses in the North American fiber seaports. Let South American fibe stored in these warehouses, der seal, and sold only to outbound sels. I do not see how this plan can diany possible danger of bringing teand-mouth into your farming distant.

Concern of Both Continents

What I would personally like to see is for the U. S. Department of Agalture to co-operate with the governments of Uruguay and Argentina I clean up our infected areas, Let ment the stamp this thing out and then the quarantine on any district as nas it is free of the disease.

North America has as much at the interior in the interior in the standard growing market goods manufactured in the United tes—if we can sell our beef to you government of Uruguay controls balance of trade with foreign counstituded in the impatting of goods.

shy requiring a permit for the im-tation of goods. If a business man les to the government for a per-to import a cargo of machinery the United States, in a year when to import a cargo of machinery in the United States, in a year when balance of trade is unequal, he is to buy his machinery in Germany Ingland. The government has just a deal for railway equipment a German firm. A Hungarian had bid 100,000 pesos less on the rout the German firm's bid was pied because Germany was buy-Uruguay beef. There is, in prosumal sometiment of the state of t

not expressing my own personal ms, but am telling only what our bors to the south are thinking.

the next story I will tell about it to an estancia in Uruguay.



's on a strike—he says 'cooked oats breakfast or there he stays'."

An Early Seedbed and Summer **Fallowing Best Wheat Practices**

By TUDOR CHARLES

THE year 1937 didn't bring so many new methods in connection with winter wheat production in Kansas, but rather served to prove the value of several already tried practices and items of equipment.

A number of farmers over the state were asked to describe the features of their farming systems which had been most profitable. Since this question included the entire business, both crops and livestock, it was notable that 11 out of 35 named either summer fallowing or early seedbed preparation for wheat as their most profitable farm practice. This emphasizes the belief we already had, that wheat yields are affected most by the soil preparation. This applies primarily to the western two-thirds of the state, altho last fall soil moisture was deficient at seeding time even in much of Eastern Kansas.

Tractor power, an extra plow bottom or two, wide coverage field culti-

Tractor power, an extra plow bottom or two, wide coverage field cultivators, weeders, and harrows, all are aids to early seedbed preparation. On our farm last July, with the aid of a

new 3-bottom plow, and a rubber-tired tractor, we worked the soil day and night, and had plenty of moisture for wheat germination on September 15, while later fields were too dry.

L. R. French, Pretty Prairie, and his son Homer, plow directly following the

while later fields were too dry.

L. R. French, Pretty Prairie, and his son Homer, plow directly following the combine. A big rubber-tired tractor is used on the combine, and one on the plow. They said nearly every farmer in their community followed this same practice of early seedbed preparation.

The most valuable practice George

L. Whitcomb, of Cedar Point, Chase county, has found for wheat, is application of 60 pounds of treble phosphate to the acre. He produced wheat for a total cost of 61 cents a bushel under this practice, charging \$6 an acre rental on the land.

A method that Clyde Clubine, Havana, Montgomery county, has found successful in his farming is to use the combine. He raises more than 200 acres of wheat annually.

The field cultivator, preferably with sweeps or duckfoot shovels, has been

accepted as the best surface tillage tool for wheat land in the western wheat areas. When used on the contour, the small furrows made by the cultivator hold heavy showers, and moisture penetration is much deeper. Guy Olson, Colby, found the soil damp about a foot deeper where it had been contour cultivated.

Drilling on the contour here here

contour cultivated.

Drilling on the contour has been beneficial, too. Fred Magley, Bird City, drilled across a steep slope and a heavy rain washed only slightly, the contours stopping the wash at the bottom of the grade. At the headlands the drill was used up and down the slope to seed out to the fence, and this rain cut ditches as deep as one's hand.

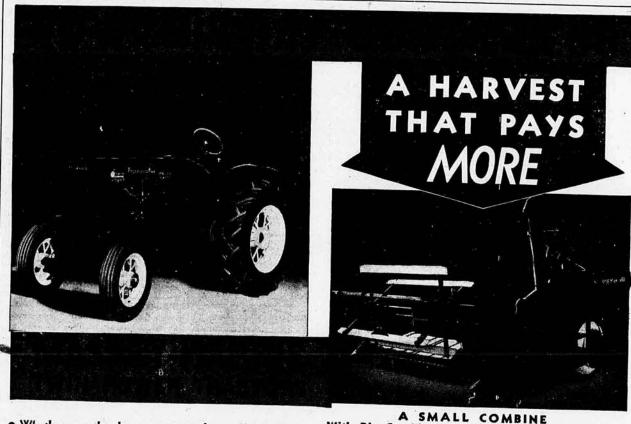
The combine harvester coming to Eastern Kansas was the most sensational happening of the wheat year. Combines were used in fields where one would never have expected it, and during the rush of harvest could be seen at night in every part of the old binder territory.

A notable increase in attic for

at night in every part of the old binder territory.

A notable increase in strip farming was seen in 1937. Wheat was seeded in strips with sorghums of one kind or another between. This really checks blowing, particularly if a good cover is left of sorghum stubble.

Fertilizer on wheat already has been mentioned. It was a great year in that respect, with the treated fields escaping the black rust and often doubling the yield of untreated wheat.



 Whether you thresh your grain in the yard or combine it in the field, here is a way to get more dollars from the harvest.

For economical belt work, you can't beat Massey-Harris Twin Power Tractors. Twin Power delivers 3-plow drawbar power, 4-plow belt power, both for the price of a 2-3 plow tractor. Any Massey-Harris dealer will be glad to show you how Twin Power works - and also prove to you that Twin Power belt power costs you from 23 to 45% less than competitive tractors. Twin Power Tractors are designed for maximum economy on gasoline deliver power impossible with a burn-all-3 type motor. You'll like this extra power—yours without the premium usually charged for this more profitable way to farm.

THE MASSEY-HARRIS COMPANY

GENERAL OFFICES: RACINE, WIS. FACTORIES: RACINE, WIS., BATAVIA. N.Y.
Branch—Kansas City, Missouri

With Big Combine Capacity and Extra Strength With Big Combine Capacity and Extra Strength Dollar wise farmers like the Massey-Harris No. 15 Combine, available in 6 or 8-foot sizes, operated from the power take-off shaft or motor driven, as you prefer. Weighing less than 3000 pounds (about 500 pounds less than other combines of the same cut), it requires less power to pull and consequently leaves more of the tractor power available on the power take-off. New group mounting principles make light weight possible, maintaining extra margin of strength. Exclusive 42-inch platform canvas, handles a large volume of straw, or a heavy tangled, down crop, and saves the grain. Convenient, one-man control from the tractor seat. Corrugated, bartype cylinder, pioneered by Massey-Harris, rubs out the

type cylinder, pioneered by Massey-Harris, rubs out the grain the easy, natural way. See your Massey-Harris dealer or write for literature.

If you need a wider cut Combine, choose the No. 17 motor-driven model available in either 10 or 12-ft. cut, built on the same grain swing principle as the No. 15. built on the same grain-saving principle as the No. 15.



Why I Bought a Tractor

(Continued from Page 8)

The teeth of that rake gave me a boost I shall never forget. They caught me right in the back and kicked me at me right in the back and kicked me at least 10 feet skyward but by the time I came down the rake had left and I landed in a sitting position smack in a patch of cactus pads. Friends, I want to say that I doubt very much whether there ever was a more restless individual in 7 states than I was after I landed. In fact it was some time before I realized that something had given way in-In fact it was some time before I realized that something had given way inside of me. Next day a doctor told me that three of my ribs had been knocked loose from my spine. By that time I was so stiff and sore that my one consolation was that the Lord had taken at least one of man's ribs away years before to make Eve. At least that was one rib that wasn't hurting me.

However—medical skill and a little rest along with my exhuberant youth worked wonders, and in a few weeks I again was in the pink and ready for my next experience.

I had to drive to town—14 miles way—and chose to cut thru the back

I had to drive to town—14 miles away—and chose to cut thru the back way. I had to go thru a couple of those western gates that way but trusted to luck. I got thru the first one in fine condition and in fact I got nicely thru the second one, too, but after setting the brake and getting down to close the gate after me a pesky jackrabbit jumped out of the sagebrush and darted right past my team.

I felt it coming and made a wild dive for the wagon but by the time I left the ground the wagon did too and I hit the dirt on all fours. Away went my outfit—now on the ground—now in the Jir—all in a cloud of dust. Before long it was out of sight but I could follow very readily the two shiny tracks in the dirt where the wheels were sliding. Thank God I had set the brakes or else I'd still be hunting among the hills. I ran across the wagon seat in the brush and knew I was on the right trail. seat in the brush and knew I was on the right trail. Then I found the end

gate and after that I found all sorts of debris scattered over the landscape, and after a 9-mile hike I came upon what was left of my team and conveyance. They finally had joited the box off the bolsters and so jammed things up that they were tired and discouraged in dragging it any further. Actually, that made three of us who were tired and discouraged.

I believe I could have stood all that and been able to carry on but some

and been able to carry on but some weeks later the final blow fell.

I had sort of a lean-to shed on the

place which served as a barn. The stalls were marked off by heavy pine poles rather than partitions and they faced the front wall. In this wall my predecessor on the land had sawed a number of square holes—one in front of each stall—thru which the horses might be fed thus saving much time and effort in going around into the barn with a measure of feed for each heast

The team was in the barn on this beautiful Sunday morning and I went out to give each one of my faithful steeds her daily portion of oats. The feed boxes were off at one side, and to be certain that I dumped the fee into this box I stuck my head in the the hole to give a looksee and get the box properly located. All went we with the brown mare and I became careless, I guess, for just as I got me head thru the hole in front of the gramman with the brown mare and I became careless, I guess, for just as I got me head thru the hole in front of the gramman with the property of the gramman with the service of the service of the gramman with the service of the serv —WHAM! SLAM! BANG! Somethin just grazed my right ear and two boards came flying off the front of m barn followed by a right front hoof for I knew it was a right front hoof for I just caught a glimpse of the letter known it as it came thru. In jerking med out of the hole I must have been a little hasty for I caught the back of my neck on the edge and nearly decapitated myself.

Attacked from Wrong End

ge, an

he mainly motraight tore a epting no cast

owd the

sary to parters

good h

Hens

isers s ust fee od fer icks. W

breed y vitar ould be

enty of od in s is part

sunshi d we s

additio

ough he as may be foot as is sur

Ne

sfully, fof blue Machine an sell-l. The o

a propertheir whire own

sorghu It ha ds on p

lying fe attachr n't expe s impor

Attacked from Wrong End

This was my first experience with striking horse. I knew fairly well he to stay away from a set of flying heel but a horse which kicked you from the wrong end was a new one on mand to say that I was surprised as shocked is putting it mildly.

It was too much. I had stood for lot but this was the last straw. I could understand a horse going for you when you abused or tormented the beast, but for a pesky brute to go for you with all feet flying and try conk you when you're trying to decent and give her a good feeding high priced oats was pouring it on a I'd be dad-burned if I'd put up with any more of that foolishness. A lot good I'd be as a help in raising whe to win the war if I got my skull cave in by flying hoofs.

So I returned rather sadly to thouse and sat there on the porch silent meditation considering who would be best under the circumstance when I heard the sound of wheels a proaching. I looked up and saw coning toward me a team of fine Misson mules pulling a spring wagon in whit two men were seated. My visite turned out to be two recently arrive pilgrims like myself but apparent of a more investigating and inquirit turn of mind. They were out ridit around and visiting up and down the foothills, and as it was getting alloward noon by then I suspected the they had decided to drop in on me a let me feed them. Well, they had caught me in my most jovial and he pitable mood. That was a cinch.

We sat around and conversed at sor length, exchanging our respectiviews and opinions of the communication.

pitable mood. That was a cinch.

We sat around and conversed at so length, exchanging our respectiviews and opinions of the communiat large—they doubtless wonder when we ate, and I wondering which they would leave so that I might early the day were on.

and the day wore on.

I fina!!y told them of my experient with my gray mare and I thought the I noticed a trace of a grin on the factor of one of my guests as I proceed with my story. When I had finished relieved himself of about a half pint to become in its and remarked. "So you tobacco juice and remarked, "So you the feller that bought that locoed ma from George Tomkins."

Understands All Now

Locoed mare? What was this? that was it, eh. I had bought a loco animal and had never known it. Graully a great light came over me a I became filled with an understand which amazed me. Things began to fold as I looked back over the previous months of tribulation, pain and a couragement. I had heard and re about loco weed and locoed hor but so far as I knew I had never be closely associated with one of the critters. That is, I had never been sociated any more closely than have owned one and nearly been kills several times as a result.

It seems that one of my guests a

have owned one and nearly been kil several times as a result.

It seems that one of my guests a had been approached by this unspeable George Tomkins, but he brought his own work stock with from Missouri and besides, he had relative who had lived in these pafor a long time and this relative tipped him off concerning this loc mare which had a reputation as a kil and general bad actor.

Woe was me. What I needed warelative or two nearby to tip me of a few of the facts of life. I felt so a erably alone and neglected right I developed a strong feeling of sentment toward George Tomkins, after turning the matter over in own mind for several days I ded against trying to take it out of his herhaps the fact that George about 6 feet 4 and a pretty tough he ing hombre might have influenced just a little. I don't recall now. But we continued on Page 34)



We're going to Mexico, the Land of Eternal Spring, again this winter . . . and we want you to go with us. Last year the Capper Tour to Mexico was proclaimed by members who went along the most thrilling winter travel vacation anyone ever dreamed of enjoying. This 1938 Tour will be bigger and better than ever . . but at the same low all-expense cost.

Join this happy, interesting, education tour to fiestaland . . forever golden in its bath of mellow sunshine, forever green from myriad springs and lakes, the world mecca of travelers, adventurers, writers, artists.

CAPPER'S 1938 De Luxe TOUR TO MEXICO

See historic scenic beauty that ages have not despoiled; villages that literally breathe romance. Enjoy the gay, sparkling atmosphere and rich traditions that makes Mexico the most talked-about land of today. Thrill to a country sc utterly different, so picturesque, so ardent to a country sc utterly different, so picturesque, so ardent in its welcome that you'll live the tour over a million

7 DAYS IN MEXICO CITY

A modern capital city as brilliant as Paris—smart cafes, theaters, lovely parks, imposing monuments and awe-inspiring cathedrals, thriving business and shopping centers. We stay at a fine, modern hotel in Mexico City and enjoy thrilling motor sightseeing trips to the most important points of interest.

Fascinating Side Trips

Don't miss seeing the Cathedral of Mexico, the largest church in America, with its unique and interesting religious museum; the National Pawn Shop; the Palace of Fine Arts; Chapultepec Castle, once the White House of Mexico.

of Mexico.

Then, there's the trip to Puebla and Cholulu, one that will never be forgotten. The road to Puebla will amaze you for its magnificent scenery of the legendary volcanoes Popocatepetl and Ixtaccihuatl.

You will never forget semitropical Cuernavaca, a resort place for rich people. Then, there's Xochimilco, Acolman Monastery and the Pyramids. Then, too, if you want to attend a Bull Fight—that is scheduled for your entertainment.

MAIL THIS COUPON NOW for FREE Literature

all transfers, sightseeing, ho-tel rooms, etc., are all in-cluded.

Don't wait! . . . write now for the free illustrated literature giving every detail of this wonderful winter travel vacation. It pictures many of the places to be visited. Gives the low cost rates. Send the coupon today for your free personal copy.

| Please send me your free illustrated lite Capper Tour to Mexico. | rature about the 1938 De Luxe |
|---|-------------------------------|
| NAME | |
| ADDRESS | ., |
| CITY | |
| STATE | |

TOUR DIRECTOR, Capper Publications, Topeka, Kansas

Early Chicks Have Advantages

By MRS. HENRY FARNSWORTH

OW about hatching a brood of OW about hatching a brood of early chicks this year? There has been more activity among the coultry raisers the country over than or several years at this time of the year. Especially is this true among hose poultry raisers who hatch and year broilers for the early market, whether there will be more broilers han the market can take at good prices remains to be seen.

Farm poultry raisers generally, however, market their cockerels as goilers more as a sideline. If the

met mething and two to the control of th

raisers generally, their cockerels as a sideline. If the

owever, market milers more as hicks are home atched or if traight run hicks are bought mm a hatchery, hey may be exected to run beut 50 per cent bout 50 per cent ockerels. These re marketed at 0 to 12 weeks of ge, and usually the feed bill the entire lot to that age.

b to that age.
his is possibly
he main reason
hy more farm people still prefer
traight run chicks. Pullet chicks cost
hore a chick to start with, and expting a few culls from them, there
ho cash return until they come into
moduction. There is a tendency to overhowd the houses too, in getting pullet
hicks. Only half the usual number of
traight run chicks should be placed
the brooder house, for it will be nechary to move half the pullets to other the brooder house, for it will be nec-sary to move half the pullets to other arters to avoid crowding otherwise, good buy for the person who raises by broilers in the cockerel chicks at are sexed at the hatchery.

Hens Must Have Good Ration

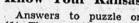
me of the things we farm poultry some of the things we farm poultry isers should consider are that we ust feed a good ration if we expect od fertility and hatches of strong icks. We must supply the foods that breeding flock needs. We must supply the foods that the control of the breeding flock needs. We must sup-y vitamin E, without which there wild be no fertility or good hatches, enty of good yellow corn and green od in some form will take care of is part of the ration. In the absence sunshine we may add cod liver oil, d we should feed a balanced mash. addition to good feeds we must give ough hopper room in order that the After the eggs are laid we must make plans to see that they are stored in a suitable place until we are ready to place them in the incubator. A standard size egg case is a good container in which to keep them. If they are to be kept over 10 days, the case must be turned over daily but turning is not necessary if used within a few days. The temperature at which the eggs are held has quite a good deal to do with the hatchability. While the temperature should not be above 70 degrees it should be an even temperature. They should be gathered at this time of the year several times during the day to keep them from becoming chilled, then stored in a temperature of 45 to 55 degrees. A test made with eggs held at grees. A test made with eggs held at 54 degrees for 20 days were found to hatch very satisfactory. While eggs held this length of time will hatch under good storage conditions, many times the chicks are not so strong or so disease resistant.

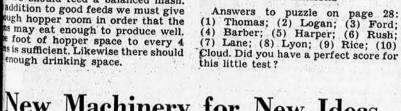
Avoid Many Disease Germs

While it may possibly be a little more trouble to hatch chicks early and the expense is somewhat more for fuel more trouble to hatch chicks early and the expense is somewhat more for fuel for brooding, there are several advantages that the early hatched chicks have over those later broods. In the first place they are hatched from the best layers and the birds of best vitality, for it is those that lay under adverse weather conditions. Naturally chicks hatched from such parent stock are hardier—more disease resistant. Then there are not so many disease germs developing early in the year as there are later. Coccidiosis and tapeworm infestation do not trouble the early hatched chicks. They get a good start before these germs start. Then these February and March hatched pullets will start laying in the latter part of the summer when the hens are slackening, which makes a better balanced year around production. In most cases these pullets, especially of the lighter breeds will take a rest and go thru a slight molt before the hatching season next year, and be ready to produce big fine hatching eggs that give as good results in most cases as the hen flock.

—KF—

Know Your Kansas





New Machinery for New Ideas

(Continued from Page 23)

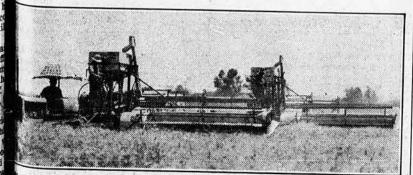
sfully, and there was some combin-fof bluestem grass seed. Machinery dealers experienced a an sell-out on fertilizer drills last. an self-out on fertilizer drills last I. The only way many farmers could a proper job of putting phosphate their wheat and winter barley was hire owners of fertilizer wheat drills to the seeding or rent their equip-ot.

ere is some interest in fertilizer sorghums and it is a good practification in the sorghum and it is a good practification in the sorghum and it is a good practification in the sorghum and in Eastern Kanthe only way to do a good job of lying fertilizer to row crops is with attachment to the planter. These it expensive, the cost is about \$25. If the sorghum in just the proper relation to row-crop seed in order to get desired

row-crop seed in order to get desired results.

New uses for standard equipment may be even more important to farmers than new equipment design. Among the practices which gained momentum last year are contouring and bindweed eradication with the duckfoot cultivator, basin-listing on the contour, making terraces with disk plow or even regular moldboard plow, and pasture-furrowing with the lister. In Thomas county farmers used 6-inch spade shovels on a heavy tiller to make pasture furrows on reasonably level pasture furrows on reasonably level land.

A minor refinement we can't see, but which is important, is improved lubrication which results in easy running and long wear.



g two 12-foot combines with one tractor in Raymond Adams' wheat field, Maple Hill.



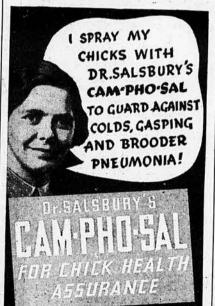
well developed, strong, vigorous and well-feathered.
Raise them on Ful-O-Pep Mashes fed the Ful-O-Pep
Way. Start now with your baby chicks. Put them on
Ful-O-Pep Chick Starter and Ful-O-Pep Fine Chick
Feed It gives them that fine uniform growing start. Feed. It gives them that fine, uniform growing start that means so much to their future successful develop-

• You will be delighted as you see your chicks grow into pullets this season, the Ful-O-Pep Way—on Ful-O-Pep Chick Starter plus grain and (later) oats fed as directed in the new 32-page book "Raise More and Better Chicks," which is FREE for coupon or postcard. It tells you how to raise better pullets for less money.

THE QUAKER OATS COMPANY Dept. 22-B, 141 W. Jackson Blvd. CHICAGO, U. S. A.

MAIL COUPON for FREE 32 PAGE BOOK

23-B Address



LATO SEL

CHICK FEED

ENFO. LEL CHICK STARTER

For FREE CHICK HEALTH ASSURANCE GUIDE, see your dealer who advertises this emblem, or write us. Or. SALSBURY'S LABORATORIES Charles City,

BECK'S WARM BROODER
BUILD IT YOURSELF
Broods 150 chicks. FEW CENTS weekly runs it. TAKES PLACE
of \$60 BROODER HOUSE. Plans, Heater, \$4,25. Circular free. R. L. BECK, DEPT. 041, SULLIVAN, WIS.

Beware Kidney Germs If Tired. Nervous, Aching

Are you Run Down, Nervous, suffer Aching or Swollen Joints? Do you Get Up Nights, or suffer from Burning Passages, Frequent Headaches, Leg Pains, Backache, Dizziness, Puffy Eyelids, Loss of Appetite and Energy? If so, the true cause often may be germs developed in the body during colds, or by bad teeth or tonsiis that need removing. These germs may attack the delicate membranes of your Kidneys or Bladder and often cause much trouble. Ordinary medicines can't help much because they don't fight the germs. The doctor's formula Cystex, now stocked by all druggists, starts fighting kidney germs in 3 hours and must prove entirely satisfactory in 1 week and be exactly the medicine you need or money back is guaranteed. Telephone your druggist for Cystex (Siss-tex) today. The guarantee protects you. Copr. 1937 The Knox Co.



THE CAPPER FOUNDATION



Founded in 1920 by Arthur Copper

A most worthy and effective philanth
Work limited by no boundary lines
discriminating in favor of no race or of
No solicitors, no salaries; supportes
purely voluntary contributions. Add CAPPER FOUNDATION FOR CRIPPLED CHILDREN 20-A Capper Building, Topeka, Kansas

"CHECKERBOARD BOYS" Mon.-Wed.-Fri. . 6:45 a. m. "Col. Combs Ramblers" "IGA Ouintet" Tues.-Thurs.-Sat. Mon.-Wed.-Fri 6:45 a. m. . 9:00 a. m.



"EZRA and FAY HAWKINS"

Mon. thru Sat.



For Details!

The

H. D. LEE NEWS

Mon. thru Sat.

. 7:15 a. m. 12 o'Clock . . Noon

"The Voice" Kansas"

IMPLEMENT ISSUE SHOPPER

Here is an unequaled opportunity. You can send for many of the booklets offered in the advertisements of this issue of Kansas Farmer without sending individually to the manufacturers. For you can check below opposite the booklets you want and mail this entire list to Kansas Farmer. We will see that you get what you want.

| | Illustrated Literature Picturing and and Deep Furrow Seeding Machine. P | Explaining | the | Dempster | Tilling, | Damming |
|---|---|------------|-----|----------|----------|---------|
| - | Free Triel Peckers of Feen A. Wint | P 19 | | | | |

☐ Minneapelis-Moline Farm Machinery. P. 20-21.

☐ Free Booklet, "How to Get More Tractor Power." P. 22. (Mail coupon with this list.)

Three Booklets, P. 24:

Double Profits From Legumes.
Building Soils for Cotton and Corn.
Peas for Profit.

□ Literature on New Aero-Matic Windmill. P. 24.

- ☐ Complete Information on Cletrac Agricultural Models. P. 24.
- ☐ Free 32-Page Colorful Book and Dealer's Name for Prime Electric Fence. P. 26.

☐ Pumps, Sprayers and Water Systems. P. 26.

- ☐ Free, "Hidden Treasures in Your Soil." P. 26.
- ☐ Complete Information on the New 1938 Fordson All-Around Tractor, P. 29.

☐ Full Information on The Bear Cat Grinder, P. 29.

- ☐ Information About Tongue Lock Concrete Silos. P. 29.
- ☐ Free Sample Corona Wool Fat and Instructive Literature. P. 30.
- ☐ Catalog and Complete Information About Western Pumps. P. 30.
- ☐ New 32-Page Book, "Raise More and Better Chicks." P. 33.
- ☐ Dr. Salsbury's First Aid to Baby Chicks. P. 33.
- Details of Roderick Lean Diskmor. P. 35.
- Complete Description of Rotary Reaper. P. 35.

There are a few advertisements containing coupons requesting special information. We suggest that you fill these coupons and mail direct to the manufacturer.

KANSAS FARMER, Topeka, Kansas

I would like the booklets checked above.

Address (R. F. D.)

Post Office K212

Why I Bought a Tractor

the decision to skip the whole matter so far as George was concerned came another decision, and that was that I would mechanize my farm, and that

would mechanize my farm, and that immediately.

I felt so grateful to my Missouri guests that Sunday for giving me the low-down on this horse deal that I broke down and asked them to stay and eat with me. I was closest to the door when I extended the invitation, but I was the last man inside the house when the dust extend and the with sub-

but I was the last man inside the house when the dust settled and the rush subsided. Tho they cleaned me out of a week's provisions, I considered it a bargain. Hadn't they saved my life?

At any rate I bought a tractor the very same week and I've always felt that bad as that tractor turned out to be, I was justified. Some men buy a tractor because they want one. Some be, I was justified. Some men buy a tractor because they want one. Some buy because someone sells them one. Some buy tractors to keep the boys on the farm or because they like the smell of gasoline. But I was driven to it by an old gray mare and I still think my excuse was as good as any. Certainly I had enough provocation.

All who read my story of that tractor know that it did not solve my problems entirely, altho I did know which end of the tractor did the kicking and it never swapped ends on me, altho it did play all manner of other devil's tricks. But to say that my troubles ended when I got a tractor would not be entirely truthful. Not by any means.

Went All of the Way

When I decided to mechanize I went the whole way. I jumped off the deep end so to speak. I not only got a tractor but I also got what was purported to be a truck. It was really an old Model T Ford on which someone had mounted an express body. I saw it advertised in a Billings paper and forthwith hied myself to Billings and made the purchase. The garage man told me that it had formerly belonged to the Salvation Army, Maybe so. I know I have never felt quite as warmly toward the Salvation Army since that time.

time.

After much sharp bargaining I induced the man to throw in a spare tire, which I later discovered did not fit, and a set of tire chains—just in case. He also gave me a tankful of gasoline and a jack. The tire chains turned out to be a happy idea for before I had gone 20 miles I was up in the hills of the Pine Ridge range and the pass was filled with snow. In spots the snow was so deep that I sank out of sight. I finally tried backing over the divide on the theory that the back end was lighter and wouldn't bog down so badly. It was a stroke of genius except that all the water ran out of the radiator and I had to melt snow in a tomato tor and I had to melt snow in a tomato can time and again to refill the cooling system. I lost my chains in the snow

banks and couldn't find them and it took me 14 hours to negotiate the 63 miles to the ranch and it got cold when the sun went down, too.

My next problem was to dispose of my team of mares. I was afraid it would be another mistake and that I might need the team to haul the truck around when it broke down, but I was completely fed up with the beasts and my mind was made up. They had to go. I was soon to learn that buying a locoed mare and disposing of one are two separate and distinct sales problems and had to be handled in an entirely different manner.

To begin with, I had to find an unsuspecting victim and that was no cinch. The joke had been spread all over the countryside and up and down both sides of the valley. Every one knew about my locoed mare. In the second place I found that a neitye was much

about my locoed mare. In the second place I found that a native was much more likely to tip off another native than he was to tip off a pilgrim from

back East.

A Policy of Waiting

Advertising that team in the local paper would have been so much money thrown in the river, so I strengthened my fences, turned the horses out on pasture and adopted a waiting policy. Finally fortune smiled on me. Someone told me about an old Indian who had a fairly new John Deere hinder.

had a fairly new John Deere binder, and by the grapevine route I got word to this old buck that I'd consider trad-ing him a good team of mares for his to this old buck that I'd consider trading him a good team of mares for his binder provided he could dig up \$100 cash to boot. One fine day he and his squaw drove up and sat in their wagon for half a day looking over the fence at my team. They never spoke a word. Late in the afternoon they drove away. Next day they came back and repeated the performance. Next day they came again and then I din't see them again for nearly 2 weeks but when they did come back, he was ready to talk trade. He said that he'd trade me the binder for the team and give me \$40 boot. I held out for \$100 for a while and then weakened and fell off to \$75. He stood his ground because \$40 was all he could dig up.

Reluctantly I broke down and made the deal with him but insisted that he had to deliver the binder before he could have traded even or given some boot. He left his \$40 with me as a sign of

could have the team. I really would have traded even or given some boot. He left his \$40 with me as a sign of good faith and about 2 weeks later he showed up dragging the binder and that was the last I saw of my mares. I wished him well with them but I've had a guilty feeling about it even to this day.

So that's he how of it all. When the old gray mare took a kick at the whiffletree I was willing to stand for it, but when she started in using me as a target I bought a tractor.

Popular Safety Program Indicated

A BIG reduction in accidents which cause loss of life, much pain and suffering, and a huge cost in property damage, seems assured on Kansas farms if letters received by the Kansas Safety Council are an indication.

The first state-wide Farm Accident Prevention Program, according to safety authorities, is now under way.

Over 50,000 "Farm Accident Primers" describing the innocent appear

Over 50,000 "Farm Accident Primers," describing the innocent appearing dangers that lurk on nearly every farm, prescribing the simple remedies which will prevent a needless accident, and offering prizes to young people in a prevention program, have been distributed. More copies are available and are being mailed by the State Board of Agriculture, the State Department of Public Instruction, the State Department of Vocational Education, the State 4-H Club Leader in Manhattan, and the Kansas Safety Council.

Council.

Judging committees in every county have been appointed and they will promote interest in the program. County winners will compete for the state prizes.

Kansas Farmer is offering a gold watch to the winning boy and the winning girl in the state. The Kansas Safety Council is offering a trip to the American Royal Livestock Show in Kansas City, with all expenses paid, for the winning school group or club.

The Farm Accident Primer lists and The Farm Accident Primer lists and illustrates such common dangers so often found about homes, such as broken steps, ladders left where young children can play on them, stairways without-hand rails, dead limbs left in trees and up-turned nails in boards.

Typical farm accidents are from dangerous animals, pitchforks concealed in hay, split handles in axes, children riding on unguarded machinery, and rotted ropes used for hoisting.

Legumes and Pasture Good

Legimes and Fasture Good Lespedeza has done fairly well as a pasture crop for A. A. Pease, Fort Scott. Most all of the tame pastures killed out the past few years he said. A pasture was seeded to lespedeza and other tame grasses, a couple of years and at first the lespedeza crowded out all the other grass. But the next summer the drouth was too much for even it. Mr. Pease said the legume had done well on poor soils in his neighborhood, without addition of limestone. This is its one advantage over alfalfa and the without addition of limestone. This is its one advantage over alfalfa and the clovers. Soybeans made a good hay crop for Mr. Pease. He planted them in rows and bound them at harvest. In 1936 they became over-ripe before harvest, due to wet weather, so he kept them for seed. The price of soybean seed last spring was good too.



Edward Geffert, Humboldt, is general handy man around the large farming operations of A. C. Geffert and his 7 sons, who farm together and each handles a branch of the farm work. Here is the feed mill used, housed in a dry granary, and Edward preparing to toss in a scoopful of ear corn.

Longer Season for Feed Grinders, Made More Popular by Sorghums

ALTHO the usual season of feed grinding on a wide scale is near-ing an end, this year we may see continued far into the spring and

ould

and go.

are

no lall

own

uch tive rom

local oney ened t on licy.

who ider, word rad-r his \$100 1 his agon ence

vord. way. ated

gain did rade. nder ot. I

then

nade
at he
e he
rould
boot.
n of
er he
and

ares. I've n to

n the whif-or it, as a

ed

s and rs so h as coung ways eft in

chin-sting.

od

Fort

tures said. a and years dout sum-even done shood, his is id the hay them rvest. Defore kept ybean

1938

Many cattle were bought late and

Many cattle were bought late and arted on feed only recently. Feed was arried along until the cattle were bught. After several months of hapazard feeding of bundle sorghums, hether by preference or because of ck of funds to buy a grinder, most immers are going to be in a mood to ind up their feeding season with round fodder, and maybe even ground falfa hay, in the feed bunks. As the feeding season goes into the hal months, cattle are going to realire a little more palatable and distible mixture of feed. Nothing fould improve sorghum fodder, allfa hay, and grain quicker than inding. From many angles it looks to a paying proposition to change fom whole feed to ground feed now. Grinding is more and more accepted a Kansas farms. Feed grinding apals to many farmers as a means of proving their feed supplies. It can done at their leisure. A move from m to farm doesn't necessitate leaver either storage facilities or feed. Leo Croft, Kinsley, is having Atlas der and good alfalfa hay ground by heighbor for his cows. A combination life and burr mill is used. The feed eaten "slick and clean." It makes e feed do more good and go perhaps lif again as far, at only small cost r grinding.

F. M. Cudney, Trousdale, uses his lable heaven.

If again as far, at only small cost r grinding.
F. M. Cudney, Trousdale, uses his all hammer mill to grind barley, rn and alfalfa hay. Not much of the lely ground alfalfa meal is fed, but ough to balance the ration along the wheat pasture for the high procing Jerseys.

the wheat pasture for the high pro-cing Jerseys.

H. H. Johnsmeyer, Marion, likes to this stock well fed but he can't bear see them waste feed. So he grinds y and fodder in a large knife and mmer mill and feeds this to lambs, es and fat cattle. He doesn't use a

screen in front of the hammers for grinding sheep and cattle feed. But the pounding breaks nearly all the Atlas sorgo grain and the knives and hammers together make fine pulp of the roughage.

Feed grinding extends from torrid weather to wintry blizzards on the A. L. Criger farm, near Howard. Large acreages of Kansas Orange are grown, and after the silos are filled, the extra supply goes in the shock to await later grinding or chopping. Cattle are put on feed in early fall, and by winter time there is silage space for some of the shocked sorghum. This usually is made into silage by addition of water, altho it may be fed dry-ground if conditions warrant.

Not only have increased acreages of sorghums given roughage grinding a hoost in Kansas but the swing for a

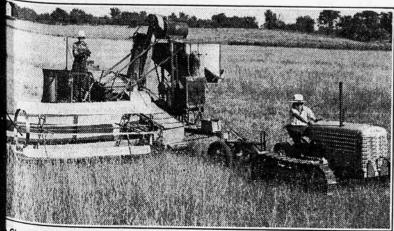
Not only have increased acreages of sorghums given roughage grinding a boost in Kansas, but the swing from corn to barley and wheat for feeding has made grinding necessary. An example is A. T. Hoover and Sons, of Dickinson county. They grind barley and oats for their lambs. Barley acreage has replaced corn on the farm and it must be ground for all types of stock. Hoovers results prove ground barley is an excellent lamb feed.

Kafir and Atlas are chopped dry and put in the silo for winter feed on George L. Whitcomb's place, Cedar Point. This work is done in coldest weather, and Whitcombs like the finely chopped mixture. They grind coarse alfalfa hay with it, also. The machine used is an ordinary ensilage cutter, with sharp knives.

Terraces Level Ground

Terraces on relatively level ground hold the moisture and insure better wheat production in Western Kansas, believes R. E. Frisbie, McDonald. He has a terraced field, which was seeded to wheat 2 years consecutively. The second year, 1937, this field made better than 5 bushels to the acre of 60-pound wheat.

Little Tractor Pulls Big Combine



Cleveland Tractor Company will exhibit several models of Cletracs at the Wichita Tractor Both agricultural and industrial types will be shown. This picture shows a tiny powerhouse hauling a heavy combine during the wheat harvest.

With a DISKMOR wide Disc Speed Up! and your tractor . . . A late Spring or labor shortage can't hold you back in seed DATES don't wait CI-I-I-II STEPPEN THAT SECOND OF CAREFUL OF CHECK 21 FT. 38 DISCS

bed preparation! Cover 60-75 acres a day, easy. Tests prove early planted crops yield better net profits. Delay is costly. Get your DISKMOR now . . . have your crop in on time.

Roderick Lean FARM TOOLS DISKMOR

One man loads or unloads end gangs easily, quickly. 15 ft. size clears 12-ft. gates. Simpler... only one control rope. Exclusive snubbers insure better penetration. Many exclusive features. See your Farm Tools dealer NOW, or write for details.

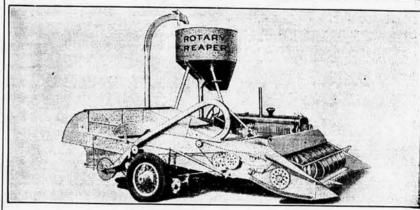
JUDY IMPLEMENT CO., Kansas City, Mo.

15 FT. 28 DISCS VULCAN PLOW DIV.
WALKING, RIDING AND
TRACTOR PLOWS

WEEDERS, ETC FARM TOOLS.INC. EORIA DRILL DIV.
GRAIN DRILLS,
EEDERS AND SOWERS

HAYES PLANTER DIV.
TWO AND FOUR WHEEL
CORN PLANTERS

REVOLUTIONARY COMBINE AMAZES



Hundreds of farmers throughout the West and Southwest watched with astonishment the performance of Curt Baldwin's new combine, the Rotary Reaper. As Robert H. Sheddon of San Bernadino, Calif., said, "The Rotary Reaper harvested some of my wheat which measured 5 ft. 9 in. and ran 45 bu. to the acre. Examination of the straw showed a perfect job of separating and cleaning." C. O. Rosenberger of Hemingford, Neb., adds, "As we drove along by the Rotary Reaper my speedometer showed 15 mi. per hr.—and it was doing good work." Every wheat farmer is interested in learning all about this amazing new one-man self-propelled combine that has the speed and the capacity to harvest 30 bu. wheat at better than 6 miles per hour; that saves power by carrying the load; in which the harvester, thresher and separator are built in one rigid, self-contained unit, eliminating all flexible and sliding parts; that embodies a spring-mounted carriage, hydraulic lift and snubbers and the new Baldwin "Semi-Suspension System of Separation." Find out for yourself. Write Curtis Baldwin, c/o Rotary Reaper Co., King St., Ottawa, Kans., today, for a complete description.

SENSATIONAL IMPROVEMENT IN WASHER ENGINES

NEW MAYTAG Twin-Cylinder Multi-Motor



Ask for a demonstration FIT DOESN'T SELL IF IT DOESN'T SELL ITSELF, DON'T KEEP IT For more than twenty years Maytag washer improvements have led the industry, and they still do. Now this remarkable new Twin-Cylinder envery gine gives you the following advantages:

· Smooth, vibrationless power. · Easier starting. . Does a big washing on one quart of gasoline. . Interchangeable with an electric motor.

Own the washer that holds world leadership. Electric models for homes with electricity. F-3-38 THE MAYTAG COMPANY, MANUFACTURERS FOUNDED 1893 • NEWTON, IOWA



FREE FARM SEED CATALOG
and FREE Samples too BARL E. MAY SEED CO., Earl E. May, Pros.
Dept. 0-8, SHENANDOAH, IA. KMA-The Farm Bolt Station
WESTERN SILO CON You will save time and correspondence by quoting selling prices in your classified advertisements.

FARMERS MARKET

REMITTANCE MUST ACCOMPANY YOUR ORDER

RELIABLE ADVERTISING

We believe that all classified advertisements this paper are reliable and we exercise the most care in accepting such advertisms. He ever, as practically everything advertised has fixed market value, we cannot guarantee say faction. In cases of honest dispute we will deavor to bring about satisfactory adjustments but our responsibility ends with such action.

PUBLICATION DATES: Every other Satur

Forms close 10 days in advance.

BABY CHICKS

Wonderful POULTRY BOOK

SUNFLOWER CHICKS

SUNFLOWER HATCHERY, BRONSON, KAN.

TAYLOR'S SCIENTIFIC BRED CHICKS. Heavier winter production, larger eggs, glant type birds; discounts on advance orders. Large type S. C. White Leghorns. S. C. Brown and Buif Leghorns, S. C. Reds, Barred Rocks, White Rocks, Buff Rocks, White Wandottes, Buff Orpingtons, White Minorcas, While Giants, Dark Cronish, Hybrids, and sexed chicks. Free catalog. Taylor Hatcheries, Iola, Kan.

8CHLICHTMAN SQUARE DEAL CHICKS. Missouri approved, bloodtested, Leghorns, Anconas, \$6,90; Rocks, Reds, Orpingtons, Wyandottes, \$7.50; Langshans Minorcas, \$4,00; Giants, Brahmas, \$9.40; heavy assorted, \$6.75; mixed assorted, \$5.00; Prepaid. Free catalog explaining 2-week replacement guarantee and early order discounts. Schichtman Hatchery, Appleton City, Mo.

"BLUE BLOOD" QUALITY CHICKS IN ALL leading breeds. U. S. approved flocks. Eleven years bloodtesting, Also largest producers Kansas approved hybrid chicks. Eight successful crosses. Pullets excellent layers. Cockerels fast growing, finest broilers. Expert sexing, Descriptive catalog free. Ross Poultry Farm Co., Box 69-L, Junction City, Kan.

Crosses. Pullet excellent layers. Cockerels fast growing, finest broilers, Expert sexing. Descriptive calalog free. Ross Politry Farm Co., Box 68-L, Junction City, Kan.

COOMBS ROP LEGHORNS. CHICKS, 250-355 egg pedigreed sired. Real breeding. Reasonable prices. World record ROP hen, 355 eggs. 1937 Texas contest average. 255 eggs; 266 points per hen. Every 1938 sire from progeny tested family. High egg; livability averages. Write today. Catalog. Combos & Son, Box 6, Sedgwick. Kan.

OUR CHICKS ARE STRONGER AND MORE vigorous because they're properly fed during the 21 days they're in the shell. Trapmested breeders. Records to 327 eggs. 80 acre breeding farm. Discounts on advance orders. Write for free catalog and low prices. Schaffner Farms, Box 106. Berger, Mo.

ree catalog and low prices. Schaffner Farms, Box 106, Berger, Mo.

INSUPE BIGGER PROFITS 1938 WITH chicks from Bagby layers who set new World's Record at 1835 Missouri Contest. Champions 6 different. Leaven the contest of the conte

breeds, Including Hybrids, Early order discounts to March 1st. Gold Bond Hatcheries, Burlington, Colos.

SUPERIOR QUALITY CHICKS, OUR CHICKS pay big dividends. Buy our quality chicks to replenish your laying flock with known high quality laying stock and increase your profits. Write for our reasonable prices. Salina Hatchery, 122 West Pacific St., Salina, Kan.

BOOTH'S FAMOUS CHICKS, STRONG, healthy, quick growing, Excellent layers, From one of America's greatest breeding institutions. 10 varieties. Low prices. Discounts on advance orders. Free catalog, Booth Farms, Box 311, Clinton, Mo.

10° EARLY ORDER DISCOUNT. THOU, sands chicks hatching weekly. 18 purebred varieties, 4 hybrids, Priced \$5.75 hundred and up. Light broiler chicks \$4.50. Prepaid. Live delivery guaranteed. Wayne Hatchery, Wayne City, III.

BAKER'S RELIABLE CHICKS, BEST QUALity, fortieth year. Three times World's champions. Official egg records. Inspected, Salisfied customers England to Java. Free book, write today. Baker Hatchery, Box 1, Abilene, Kan.

DROWN'S "BETTER CHICKS." MORE THAN thirty years experience producing profit making poultry. Quit keeping chickens and get chickens that will keep you. Drown's Poultry Farm. Manhattan, Kan.

CHICKS ON A 30 DAYS TRIAL GUARANTEE. All varieties, Missouri approved. Blood tested leasy buying plan. Low prices. Chick manual free Missouri State Hatchery, Box 271, Butler, Mo.

Easy buying plan. Low prices. Chick manual free Missouri State Hatchery, Box 271, Butler, Mo.

BURNHAM'S QUALITY CHICKS: ROCKS, Reds. Orpington, \$6.95. Special for February delivery. AAA Leghorns \$6.70. Buff Minorcas \$7.45. Prepaid. Burnham Hatchery, Clinton, Mo.

BABY CHICKS AND TURKEY POULTS. PURE and crossbreed, bloodtested, best quality. All popular breeds. Prices reasonable. Circular free. Steinhoff Hatchery, Osage City, Kan.

BABY CHICKS—SPECIALIZING WHITE Wyandottes, White Rocks, \$8.00 delivered. Other breeds on orders. Hatch every Monday. B. & C. Hatchery, Neodesha, Kan.

BLOODTESTED, STATE APPROVED CHICKS. All leading breeds. Prepaid, live delivery. Write for free circular and bargain prices, HiLand Hatchery, Hermann, Mo.

CHICKS: BLOODTESTED, MINORCAS, OR-pingtons, Rocks, Reds, Wyandottes, \$6.75. Leghorns \$6.00. Fostpaid. Catalog free. Forther's Hatchery, Butter, Mo.

BUY HAWK'S FAMÜLS CHICKS THIS spring, Free circular, Low prices. Early order discounts. Write Hawk Hatcheries, Box 401, Atchison, Kan.

CHICKS: U. S. APPROVED, BLOODTESTED. All varieties, \$7.00 to \$8.00—100 prepaid De. All varieties, \$7.00 to \$8.00—100 prepaid

Atchison, Kan. CHICKS: U. S. APPROVED, BLOODTESTED, All varieties, \$7.00 to \$8.00—100, prepaid. De-livery guaranteed, Tischhauser Hatchery, Wich-

QUALITY CHICKS: ROCKS, REDS, ORPING-tons, Wyandottes, Langshans, \$7.00; Minor-cas, Leghorns, \$8.50. Postpaid, Also hybrid pul-lets and cockerels, Ivyvine Hatchery, Eskridge, Kan.

REDS, ROCKS, ORPINGTONS, WYAN-dottes, \$7.50 hundred; Leghorns \$6.50. Jen-kins Hatchery, Jewell, Kau.

BABY CHICKS



For Profits buy chicks from RUPF! Vigorous, healthy, fast-growing chicks from wonderful laying stock. 15 popular breeds. Write for our 1938 plans, prices, and our free offer. RUPF HATCHERIES & POULTRY FARM, Mr. and Mrs. L. A. Rupf, Owners, Box D. Ottawa, Kan. Branches at: Burlington, Garnett, Lawrence and Paola, Kan.

BABY CHICKS

300 EGG PEDIGREE BRED BIG TYPE LEG-horn chicks, AAA—\$6.90; A—\$5.90, Prepaid. Ortner Farms, Clinton, Mo.

U. S. APPROVED BLOODTESTED CHICKS. 29th season. Young's Hatcheries, Wakefield, Kan.

BABY CHICKS-HIGHEST QUALITY, \$4.00 up. White's Hatchery, Rt. 5, North Topeka.

ANCONAS

ALL U. S. APPROVED BLOODTESTED Chicks. We hatch all popular breeds. S. C. Anconas our specialty. Baker Hatchery, Downs,

AUSTRA-WHITES

DEFOREST KANSAS APPROVED AUSTRA-Whites. Best for middle west. Guaranteed livability. All leading brands and cross breeds, DeForest Hatcheries, Peabody, Kan. AUSTRA-WHITES. BUY FOSTER'S TOP quality, guaranteed to live. All United States approved. Best-Foster Hatchery, Newton, Kan.

BLACK AUSTRALORPS

EGGS AND CHICKS FROM U. S. APPROVED flocks. Also Austra-Whites from high egg record matings. Prices reasonable. Hillsboro Hatchery Box 23F, Hillsboro, Kan.

BLUE ANDALUSIANS

BLUE ANDALUSIANS, THE WONDER BIRD. Large size, vigorous, heavy egg production. Also Buff Minorcas, Golden Rule Hatchery, Wellington, Kan.

DUCKS AND GEESE

PEKIN DUCKS, 14 LB. STOCK, 12 EGGS \$1.00.
Toulouse Geese, 25 lb. stock, eggs 20c and 25c
each. Dark Cornish game, 18 eggs \$1.00. Prepaid. Sadie Melia, Bucklin, Kan.

PEKIN EGGS FROM STATE SHOW WIN-ners. Gladys Dye, Mullinville, Kan.

JERSEY WHITE GIANTS

SUPERFINE JERSEY GIANTS; NEW HAMP-shires, Buff Minoreas, Chicks, eggs, stock. The Thomas Farms, Pleasanton, Kan. JERSEY WHITE GIANTS CHICKS, PRICES reasonable. Gamble's Hatchery, Altoona, Kan.

BROWN LEGHORNS, ROSE AND SINGLE Comb. Exhibition breeding. Bred to lay. Con-tinuous breeding for 48 years. Livability in-sured. Ernest Berry, Newton, Kan.

BIG ENGLISH LEGHORNS

We really have them, Large bodied layers of lots of hig white eggs. Direct importers of Tom Barron's best blood lines (up to 205-eag breeding). 16th successful year breeding for large bodies, big eggs and high production. Satisfied customers in 27 states. We can please you, too, Reasonable prices for highest quality. Bank references. Write for "The Proof" free, Chicks and eggs.

Barriett Poolity Farm & Hatchery Route 5, Box B4

FAMOUS IMPORTED BARRON'S TRAPnested pedigreed winterlay English strain
purebred R. O. F. sired, bloodtested, State inspected, Missouri approved White Leghorns
guaranteed to ay who eggs to thickens
of the strain of the strain of the strain
alse, Automishing prices, Astonnoing information, Catalog, Dr. Cantrell, Snowwhite Eggram,
Carthage Mo.

BIG ENGLISH LEGHORNS FROM IMPORTED trap nested stock. Proven hens. Large eggs. Do not be misled, get the best. Free literature. Goddard Leghorn Farm, Goddard, Kan.

SUPERIOR ENGLISH WHITE LEGHORNS mated with record of performance males. Guaranteed 90% pullets. Livability insured. Ernest Berry, Newton, Kan.

ENGLISH WHITE LEGHORNS, LARGE TYPE mated with heavy production R. O. P. males bloodtested. Golden Rule Hatchery, Wellington, Kan.

EXHIBITION-PRODUCTION C O M B I N E D. Winners at big shows. Flock and pen eggs. Spare males \$2.50-\$3.00. L. M. Hall, Albert, Kan.

DEFOREST BIG LEGHORNS FROM UNITED States certified flocks. DeForest Hatcheries, Peabody, Kan.

BUFF ORPINGTONS

BUFF ORPINGTONS BRED TO LAY, MATED with heavy production males, U. S. Approved, bloodtested. Golden Rule Hatchery, Wellington, Kan.

DEFOREST UNITED STATES APPROVED Buff Orpingtons, White Rocks, Reds, Guaranteed livability, DeForest Hatcheries, Peabody, Kan.

KAN.

EXHIBITION GOLDEN BUFF ORPINGTONS.

Year around layers. Livability insured. Ernest
Berry, Newton, Kan.

RHODE ISLAND WHITES

EXHIBITION PURE STRAINS RHODE Island Whites. Wonderful layers. Association tested. Livability insured. Ernest Berry, Newton, Kan.

WHITE ROCKS

EXHIBITION WHITE ROCKS. U. S. Approved, bloodtested. High egg production, Livability guaranteed. Golden Rule Hatchery, Wellington, Kan.

Wellington, Kan.

EXHIBITION WHITE ROCKS, HIGH PRODUCtion males heading flocks. Fast maturing,
Livability insured. Ernest Berry, Newton, Kan.

WHITE WYANDOTTES

WHITE WYANDOTTE BREEDING FLOCKS headed with Fischel exhibition record males Livability insured. Ernest Berry, Newton, Kan

CONTROLLED MATING OF TWO HIGH PRO-ducing breeds proven more profitable. We are pioneers in cross-breeding. Seven best hybrids including Austra-Whites. Pullets or cockerels. Livability insured. Sunflower Hatchery, New-ton, Kan.

LEG-ROCK CROSS BREED

LEG-ROCKS PROVEN DESIRABLE. WE cross high production White Leghorns with White Rocks. Livability insured. Write for descriptive catalogue. Sunflower Hatchery, Newton, Kan.

TURKEYS

POULTS, 35c UP. BOURBON RED OR MAMmoth Bronze. World's greatest strain trapnested prize winners. Short legged. Full breasted. Fast maturing. Money makers. Discounts on advance orders. Free catalog. Pleasant Valley Turkey Farm. Box 212, Pleasant Hill, Mo. BRONZE TURKEY EGGS 25c. FOULTS 45c. Excellent plumage and market type. Prize winners. H. E. Freeman, Hamilton, Kan. PURE BRED MAMMOTH BRONZE TURKEY Toms \$6.00; Hens \$4.00. Osrol Fuchs, Spencer, jowa.

Toms \$6.00; Hens \$2.00. Oslot Packs, Sect. fows.
WOLFE FARM BRONZE TOMS, \$6.50 UP.
Eggs \$20.00 per 100 up. Elsie Wolfe, Lacygne, PURE MAMMOTH BRONZE TOMS. DOUBLE Rainbows. Mabel Dunham, Broughton, Kan. BOURBON RED TOMS \$5.00. M. M. NOONAN, Greenleaf, Kan.

POULTRY REMEDIES

NEWEST POULTRY TONIC. PREVENT COC-cidiosis. Heers Internal Antiseptic positively destroys germs. Have healthy poultry. Send for literature. Berosol Laboratories, Lindenhurst, New York. H7.

POULTRY PRODUCTS WANTED

EGGS, BROILERS, HENS, WANTED, COOPS loaned free. The Copes, Topeka.

Do It With Squabs

319 H. St.,

KODAR FINISHING

ROLLS DEVELOPED, TWO BEAUTIFUL double weight professional enlargements and 8 guaranteed Never Fade Perfect Tone prints 25c coin. Rays Photo Service, La Crosse, Wis. SPECIAL OFFER! 10 REPRINTS FOR 25c, one beautiful 6x8 enlargement free. Rolls finished, 8 prints 2 enlargements 25c. Nielsen's Studio, Aurora, Nebr.

ROLL DEVELOPED, TWO PRINTS EACH and two free enlargement coupons 25c. Reprints 2c each, 100 or more 1c. Summers' Studio, Unionville, Mo.

AMAZINGLY BEAUTIFUL, ROLL DEVEL-oped, 8 natural color prints, 25c. Reprints, 3c. Natural Color Photo, D-31, Janesville, Wis. ENLARGEMENT FREE. EIGHT BRILLIANT border prints and your roll developed 25c, Camera Company, Oklahoma City, Okla.

LIMITED TIME ONLY. 4x6 NATURAL COLOR enlargement from your negative, 10c. Natural Color Photo, Janesville, Wis.

GUARANTEED. 20 PRINTS 25c. ROLL DE-veloped, 16 prints 25c. Quality Photo, Hutch-

ROLL DEVELOPED, PRINTED 15c, Reprints 1c. Howards, 2947 Jarvis, Chicago.

BATTERIES AND LIGHT PLANTS

EDISON STORAGE BATTERIES FOR LIGHT-power. Fifteen year life, fully guaranteed. Complete lighting plants. Free literature. See-Jay Company, 72 Sterling Avenue, Yonkers. N. Y. USED 750 AMPERE GLASS CELL TRICK plate farm lite batteries, bargain prices. Dizzer Battery Corp., Des Moines, Iowa.

FARM MACHINERY

FOR SALE: ONE McCORMICK-DEST 1934 model 22-36 tractor, one 1932 a 22-36, one 1932 model 22-36, one 1932 a 22-36, one 1932 model 12-30, and one 1932 wallis. Carefully rebuilt and guaranteed livery anywhere at reasonable price. Kysar plement Co., Quinter, Kan.
FOR SALE: MACHINES FOR CLEAN and grading your grain and corn for seed market. Will make you extra money. Har power. Priced right. Send for free litera prices. Hart Carter Company, Department Minneapolis, Minn.

Minneapolis, Minn.

PORTABLE MILL OPERATORS, A tion! Fords Hammermill insured bette ce, greater returns. New, modern, servi Molasses feed impregnator optional. Sattor operates truck and mill, Myers-Sherm Streator Illinois.

tor operates truck and mill, Myers-Sherman Streator Illinois.

NEW BASIN TILLER, PULL BEHIND PLOI discs, etc., 8 ft. machine makes 14 ba every revolution. Holds water, stops blow Any width, Miller Mig. Co., Stratton, New TRACTOR WOODSAW FRAMES, COME harvester supplies, We change tooth cylis to rasps, V Belt drives. Richardson, Cast Kan.

AUTO HAY SWEEP, ILLUSTRATED DIE tions how to make. Equal to 3 teams, P \$1.00, Aifred Baasch, Cairo, Nebr.

tions how to make, Ediro, Nebr.

\$1.00. Alfred Baasch, Cairo, Nebr.

WINDMILLS \$19.95. WRITE FOR LITE ture and special prices. Currie Windmill open. KF, Topeka, Kan.

RICHMAN'S HAMMERMILL — POORM price, \$39.50. Tractor size \$53.50. Link open, Fargo, N. D.

FOR SALE: BALDWIN COMBINES. models. Thompson Brothers, Minneag Kan.

models.

Kan.

TILLIGRADER, WORLD'S FASTEST HI garden tool. Write Tilligrader Co., Lib

garden tool. White American Kan. WANT TO BUY: 28 INCH THREST Brune, Spring Hill, Kan.

TRACTOR PARTS

WRITE FOR OUR 1938 FREE CATALOG used tractor parts; new lugs, parts. Sain tion guaranteed. The Central Tractor Wee Co., Boone, Iowa.

MILKING MACHINES

MILKING MACHINES

We have a few milker outfits that have bused as exhibits at fairs or as salesmen's sples. Practically like new. Each outfit coaf of one Perfection Double Unit. one Vacu Pump. Tank, safety valve and gauge. \$18 for each outfit while they last.

Perfection Manufacturing Corporation 2137 E. Hennepin Ave. Minneapolis. Ma

FORD'S MILKER. LOWEST PRICED. M economical. Fewest parts. Cleans itself a matically. GE motor, Briggs-Stratton ea optional. Fully guaranteed. Thousands sal users. Terms. Myers-Sherman Co., Streatof linois.

FOR SALE: NO. 77 MODEL MELO Cream Separators at \$69.50. Slightly a write now. W. C. Farthing, Dept. D, South Warehouse, Kansas City, Mo.

REVOLUTIONARY NEW FLUX DIVER makes Parmak Electric Fencer more efformore economical, doubles life of safe six batteries. Utility model \$12.50, 30 days Long term guarantee. Write for catalog, wanted. Farker-McCrory Mfg. Co., 45 Kansas City, Mo.

SUPER-ELECTRIC, SIMPLEST INVENT for electric fencing. Time proven. effor electric fencing. Time proven. effor safe, low priced, guaranteed. Information Distributors and farmer dealers wanted. Super Electric Fence, AK-2500 Wabash. cago, Ill.

ELECTRO-FENCING SAVES 80% OF F ing costs and is the most effective coals on the market. Electro-Fencing is safe and Write for free booklet. Electro-Fence Co-1A, Payette, Idaho. BUILD OWN ELECTRIC FENCE UNIT A. C. voltage for less than \$5.00. Safe guaranteed. Instructions \$1.00. Improved Fucts Company, Hempstead, New York. P. Box 541.

ELECTRIC FENCER \$1.65 COMPL build it yourself, 6 volt plans 20c. H. C. Franklin, Nebr.

ELECTRICAL SUPPLIES

% HORSE, 110 VOLT, INDUCTION, All nating motors \$8.50. ¼ horse, \$4.90 erators and larger motors at bargain p Electrical Surplus Company, 1885 Miles Chicago.

WATER WELL CASING

THOMPSON PERFORATED WELL CAS
produces more water because it has a ref
perforated area. Supplied in all diameter
gauges, both perforated and plain, and regauges, both perforated and plain, and resen also manufactures steel pipe, metal in
measuring flumes, water gates, stee
smoke stacks, etc. Prices and catalogs of
quest. Write us today, Established 1878
Thompson Manufacturing Co., 3011 Las
Street, Denver, Colo.

RAISE FROGS! WE BUY! GOOD PR year round. Small pond starts you. Free shows sketch. American Frog Canning New Orleans, Louisiana.

LIVESTOCK REMEDIES

ABORTION PROTECTION ONE VALUE tion. Government licensed vaccine; back guarantee. Free abortion literature ers Vaccine Supply Company, Departs Kansas City, Mo.

FORAGE SORGHUMS: Atlas Kansas Orange

Early Sum Leoti Red GRAIN SORGHUMS:
ckhull kafir Wheatland
colby milo

Blackhull kafir
Western Blackhull
Pink kafir
Club kafir
Club kafir
Wheatland
Colby milo
Finney milo
Early Kalo

CORN:
Reid Yellow Dent Hays Golden
Midland Pride of Saline

SUDAN GRASS

POPCORN: SOYBEANS: A. K. Laredo

FLAX: Linota

ALFALFA:

BARLEY:

SWEET CLOVER LESPEDEZA:

OATS: Kanota

Write for List of Growers

KANSAS CROP IMPROVEMENT ASSN., MANHATTAN, KANSAS

SEED

HARDY KANSAS ALFALFA SEED

Seed \$5.00 per cwt.; Affidavit Atlas Seed \$4.00 per cwt.; F. O. B. Salina.

ANSAS SEED CO., SALINA, KANSAS

SELECTED, TESTED AND GRADED cercial White and Midland Yellow Dent m. Triple cleaned Korean Lespedeza, realing variety Atlas Sorgo, Bluck Hull mid Waconia orange Conting sermine grown. All 1832 cross of high serminily matured seed, Two District white corn county held the '27 State Husking Conguarantee satisfaction. Orders promptly manual manual

Kansas.

ERS SEEDS. HARDY, ADAPTED, REdalalfa, \$12; unhulled sweet clover, and an are delover, \$19; timothy, \$1.60; is weet clover, \$19; timothy, \$1.60; is weet clover, \$5.40; mixture timothy wer, \$4.50; sudan grass, \$1.50; all per Korean lespedeza, \$6; Atlas Sorgo, binegrass, \$10 per 100 pounds. Send for e price list, catalog, Collection flower or e price list, catalog, Collection flower or e price list, catalog, Collection flower or exceeding \$13 Walnut Street, Kansas City, Mo. FIED ATLAS SORGO SEED. \$95; mation (heavy sweet cane stalk with add, grasshopper proof, an excellent dryed and ensilage. In 100 lb, bags priced 1 loe lb., 2 bags or more \$6 lb., delivered re in Kansas, 20% cash with order of the Kansas cash order of the Ka

CLOVER \$19.90; ALFALFA \$12.00; Bird Sweet Clover \$5.00; Timothy \$1.75; Red Clover or Asike and Timothy \$4.50; 21 \$1.65; Atlas Sorgo \$1.50; Sudan \$1.50. All per bushel. Samples, Catalog miptet Price List free upon request, as Seed Company, 19 East Fifth St. City, Mo.

plete Price List free upon request. Seed Company, 19 East Fifth St., ity. Mo.

GRASS \$3.50 CWT. RED CLOVER bushel: Sweet Clover, scarified, \$5.25 cbraska Hardy Alfaifa \$18.50 bushel. ds at low prices too. All triple recleaned an edge and the second farm seed samples universery catalog and farm seed samples to Earl E. May, Box 591-8, Shenandoah,

QUEEN AND SILVERMINE, HIGH-igh-germination white corn grown on h-germination white corn grown on a Andrew county, shipped shelled, ks free, from Ree, Mo., at \$2 a staction guaranteed. John F. Case, Mo.

RECLEANED ALFALFA SEED Grimm Alfalfa \$15.80; White Sweet 5.90; Red Clover \$16.80, All 60 lb. rack Concordia, Return seed if not Geo. Bowman, Concordia, Kan.

SORGO SEED 90% GERMINATION est, 1937 crop. 40 bushels per acre. quality, recleaned, bagged, 2½c per F Samples sent. Phil Glunt, grower, Kan.

CANE, EARLY SUMAC, BLACK-fir, Pink Kafir, 2c lb. by grower, a certified seed. H. E. Freeman, Ham-

LESPEDEZA, RECLEANED, \$6.00
Bag lots, truck loads. Sample and
e. Fraziers Seed Store, Coffeyville,

BROME GRASS SEED WITH A Frimination; recleaned and free of red seed, E. Edwards, Talmage, Kan. OATS: GOOD, BRIGHT, NO SMUT, per bushel. 2 miles East, 1/2 North per bushel. Espencer.

D KANSAS ORANGE SORGHUM Odducers of certified seed for 20 years. 1/2 ALLAS SORGO, GERMINATION URITY 99,625; 1/4.50 per cwt. Paul Garrison, Kan. LESPEDEZA \$1.50 ct. Literature and samples free. R. P. eld. Literature and samples free. R. P. SEVERAL VARIETIES. ALSO

N-SEVERAL VARIETIES. ALSO feeding corn. Merillat Brothers, Sil-

SMOOTH AND WIREHAIRED. also Scottish terriers. Elmcreek C: THREE GOOD COYOTE DOGS, 1937-38 catch, 56 coyotes, W. O. love, Kan.

SHEPHERD PUPPIES, NATURAL Ed Barnes, Collyer, Kan.

PLANTS-NURSERY STOCK

200 Blakemore Strawberry Plants......\$1.00 Leading sorts by the Millions. 50 Asparagus, 12 Rhubarb, 6 Hrsradish 50 Asparagus, 12 Rhubarb, 6 Hrsradish
Cr. 12 Welch's Concord Grapevines, two yrs. 75
25 Chinese Elms, 3 ft. branched 1.00
25 Plum Seedlings, 3 ft. branched 1.00
20 Spirea VanHouttet, 18 Inches. 1.00
100 Privet, 18 Inches 4.00
60 Glads, six best colors 4.00
60 Glads, six best colors 1.00
2 bls. Castor Beans for Grasshoppers 1.00
2 lbs. Castor Beans for Grasshoppers 1.00
each Prepaid. Catalog Free.
Welch Nursery, Shenandoah, Iowa.

3 TWO YEAR APPLE TREES FOR \$1.00, your choice of Wealthy, Rome Beauty, Jonathan, Maiden Blush or Winesap, a \$2.25 value, prepaid, 100 one year Chinese Elm \$1.00, 25 two to three foot Chinese Elm \$1.00, 100 two to three foot Chinese Elm \$1.00, All prepaid, Peach trees in most standard varieties, 3 for \$1.00 prepaid, Sarber Nursery Company, 3100 West 10th, Topeka, Kan.

FREE! AMERICA'S MOST BEAUTIFUL Nursery and Seed book. Full natural colors. Amazing new low prices on fleet, heavy bearing apple and fruit trees. Greater alues, better service and a sincere desire and efficiency please you has made us America's largest direct-to-you kurseries. Guaranteed stock. Low prices. Write Inter-State Nurseries, 25 E. Street, Hamburg, Iowa.

Inter-State Nurseries, 25 E. Street, Hamburg, Iowa.
NECTABERRIES, MAMMOTH, SWEET, DElicious; yielded twice Boysenberries. Thornless
Loganberry, Thornless Youngberry, Giant
Cherry Rhubarb supplement farm income. Catalog. Benedict Rancho, 1003 Deana Road, El
Monte, Calif.
ROSKS-HEAVY FIELD GROWN. RED, PINK,
shell radiance, talisman, President Hoover,
Kirsten Poulsen, Etolie Hollande, Luxembourg,
Caledonia, Briarcliff, All 19e each, postpaid,
Ship C. O. D. Catalog free. Naughton Farms,
Waxahachie, Texas.
FREE: GOLDEN JUBILÆE ANNUAL—JUST
out—exceptional offers hardlest new farm and
garden seeds, trees, shrubs, plants, direct from
growers. Farmer Seed & Nursery Co., Misken
St., Faribault, Minn.
200 BLAKEMORE OR DUNLAP STRAWberry plants delivered, \$1, Millions of plants;
rockbottom prices. Free catalog on Strawberry,
Youngberry and Boysenberry, Waller Bros., Judsonia, Ark.
100 CHINESE ELM ONLY 79c POSTPAID.

a. Ark.

CHINESE ELM ONLY 79c POSTPAID mooth well rooted seedlings, ½ to a foot i. 1000 for \$7.25 prepaid. Free nursery cata-Write Earl E. May, Box 612-8, Shenan-1, Iowa.

BOYSENBERRY PLANTS, 25-\$2.00; 100-\$4,75. 25-\$1.00; 100-\$2.75. Youngberries, 25-\$1.00; 100-\$2.00; 500-\$7.50. All postpaid. Ozark Nursery, Tahlequah, Okla.

youngberries, 25—\$1.00; 100—\$2.75.
Youngberries, 25—\$1.00; 100—\$2.20. 50-\$1.99. All postpaid, Ozark Nursery, Tallequah, Okla.

STRAWBERRY PLANTS: BLAKEMORE, Klondyke, Gandy, \$2.50—1000 prepaid, 100 Duniap, 100 Blakemore, 25 Dorsett, all postpaid for \$1.00. V. P. Basham, Mountainburg, Ark.

HARDY MOUNTAIN GROWN AROMA strawbeiry plants, \$2.00 thousand, All leading varieties, Write for list, Sinclair Nurseries, (Estab. 1912) Dayton, Tenn.

GLADIOLUS: TRIAL OFFERS, 60 ASSORTED blooming size Picardy, \$1.00, 100 choice Rainbow, mixed, \$1.00 postpaid, Terrace Gladiolus Gardens, Stevensville, Mich.

10 BOYSENBERRY, 5 THORNLESS YOUNG-berry, fine fresh dug plants, \$1.50 prepaid, World's best berries, Hirschi's Berry Gardens, Oklahoma City, Okla.

BEST NEW AND STANDARD FRUITS. FROST resistant peaches, plums, apricots, Lowest prices, Descriptive catalog free, Ozark Nurseries, Rogers, Ark.

QUALITY TREES AND PLANTS PRICED right, Catalog roses, shades, shrubs, Special, 10 apple or peach \$1.00. Clever-Aurora Nursery, Aurora, Mo.

MAKE \$1000 PER ACRE, EVERBEARING Red Raspberries bear first year, \$5 per 100 postpaid, Nate Helman, Rocky Ford, Colo.

CHOICE STRAWBERRY PLANTS, TWELVE varieties, Boysenberry, Youngberry plants, List free, James Sterling, Judsonia, Ark.

EDUCATIONAL

EDUCATIONAL

No school advertising under this heading has any counection with the government.

REAL JOBS OPEN, AUTO, DIESEL, AVIAtion mechanics, body, fender repair, painting,
welding. Learn with few weeks practical training. Write for free book, low tuition rate, and
course interested in. McSweeny Schools, Dept.
8-50 Detroit, Mich., or Kansas City, Mo.
AUTO MECHANICS, DIESEL, BODY-FENDER
repairing, welding, electric refrigeration Low

repairing, welding, electric refrigeration. Low rates, Stevinson's, 2008-I Main, Kansas City, Mo.

AUCTION SCHOOLS

\$100.00 DAY AUCTIONEERING. AMERICA'S
Leading Auctioneers teach you. Students sell actual sales during term. Free Catalog. Term soon. Reisch Auction School, Austin, Minn.
AUCTIONEERS GUIDE \$1.00. TERM SOON, 33rd year American Auction College, Kansas City.

HAY AND FEED

150 TON, EARLY CUT, BRIGHT PRAIRIE hay, \$9.00 ton F. O. B. St. Marys, Kansas. Byrnes & Company.

TANNING

HIDES TANNED INTO HARNESS LEATHER.
Mount animals. Make fox chokers \$5.00. Alma
Tanning Co., Alma, Nebr.

SPARROW TRAP—GET RID OF THESE pests. Any boy can make one, Plans 10c. Sparrowman, 1715-A West St., Topeka, Kan.

GLASS CLOTH

GLASS CLOTH, NEW CLOTH MADE FROM 100% glass, Sample 25c. L. Glomb—Chemist, 32 Park Place, Hempstead, N. Y.

TOBACCO

DEWDROP — OLD TOBACCO — MELLOWED in bulk. Guaranteed satisfaction or money refunded. Fancy smoking, five pounds 75c; 10—\$1.40; 25—\$3.00. Mild handpicked chewing, five pounds \$1.00; 10—\$1.75; 25—\$4.00. Free! New formula for home manufacturers. Guaranteed to save 60%. Dewdrop Farms, Farmington, Ky.

SAVE—BUY DIRECT FROM FACTORY. 200,-000 farmers say you can't beat "Kentucky Pride" chewing. 30 big twists, sweet or natural, \$1.00; 30 full size sacks smoking, extra mild or natural, \$1.00; 24 full size sweet plugs, \$1.00. Satisfaction guaranteed. Murray Tobacco Co., Murray, Ky.

GUARANTEED CHEWING, SMOKING OR Cigarette tobacco, five pounds \$1.00, ten \$1 75, Pay when received. Pipe and box cigars free, Carlton Tobacco Company, Paducah, Ky.

KENTUCKY'S SPECIAL — GUARANTEED best mild Smoking or red Chewing, 12 pounds \$1.00. Recipe, flavoring, box plugs free, Valley Farms, Murray, Ky.

POSTPAID, GUARANTEED, RICH MELLOW hand picked chewing, 7 lbs. \$1.00, smoking, 10 lbs. \$1.00, sample 25c. L. M. Gallimore, Dresden, Tenn.

GUARANTEED: CHEWING OR SMOKING, 5 pounds \$1.00: 10—\$1.50. Mild smoking, 10—\$1.50. Pay postman, United Farmers, Bardwell, Ky.

POSTPAID: GOOD OLD SWEET JUICY RED-leaf Chewing, 7 pounds \$1.00. Real Smoking 10. Guaranteed. W. L. Crews, Dresden, Tenn.

POSTPAID, GUARANTEED, VERY BEST 28-in. sweet juicy Redleaf Chewing, 10 lbs. \$1.35; real Smoking \$1.00. B. Moon, Sharon, Tenn.

PAY WHEN RECEIVED, HONEST WEIGHT tobacco, guaranteed, 20 lbs. smoking or 15 chewing, \$1.00. Dick Adams, Sharon, Tenn. GUARANTEED: 10 POUNDS FINE RED chewing or smoking tobacco \$1.00. Nice pipe free, Farmers Union, Mayfield, Ky.

CANARIES

RAISE CANARIES. MEN-WOMEN, GET INTO this profitable business. We buy your birds, other markets waiting, Small investment. Free booklet. Ill Bird Co., Dept. 265, Onley, Ill.

BUILDING MATERIAL

LUMBER AND SHINGLES, MIXED CAR LOTS direct from mill to consumer at remarkable savings. Send us your bill for estimates, McKee-Fleming Lbr. Co., Emporia, Kan.

WHOLESALE OILS

WANTED RELIABLE FARMER IN EACH township as dealer for Archer Lubricants, batteries, radios and wind chargers. Fisk and Gillette tractor tires and wheels. Have good proposition for right man. Write in Dept. E, Archer Petroleum Corp., Omaha, Nebr.

PATENT ATTORNEYS

INVENTORS—TIME COUNTS—DON'T RISK delay in patenting your invention. Write for new 48-page free bocklet, "Patent Guide for the Inventor." No charge for preliminary information. Clarence A. O'Brien and Hyman Berman, Registered Patent Attorneys, 150-P Adams Building, Washington, D. C.

PATENTS, BOOKLET AND ADVICE FREE. Watson E. Coleman, Patent Lawyer, 724 9th St., Washington, D. C.

BUSINESS OPPORTUNITIES

SALE OR TRADE: GOOD PORTABLE FEED grinding business and equipment; also 110 acre farm near Lawrence. Oscar Markley, Baldwin, Kan.

Will, Rail.

COTTAGE CAMP—\$1700.00 income 1937, depression here. Age. sickness forces sa C. A. LaPort, 2117 Garfield, St. Joseph. Mo.

CISTERN FILTERS

JOBBERS, DEALERS, TINNERS SELL Cistern Filters. Saves cistern cleaning, better health, U-S Filter Co., Bloomington,

CISTERNS

WATER when you need it with concrete cisterns built like a jug. Cheaper and better. Get our estimates. Write or phone 2-4713.
Al Crouch, 2231 California Ave., Topeka, Kan.

WANT TO BUY

WANTED—OLD LIVE COMMON PIGEONS. Coops loaned free prepaid. We pay express. B. Hendricks, Rutledge, Mo.

PIGEONS WANTED, COMMON BARN, LARGE quantities. R. W. Elliott, Raytown, Mo.

MALE HELP WANTED

STEADY WORK—GOOD PAY. RELIABLE man wanted to call on farmers. No experience or capital required. Pleasant work. Home every night. Make up to \$12 a day. Wonderful new proposition. Particulars free. Write McNess Co., Dept. 84, Freeport, Illinois.

AGENTS WANTED

SALESMEN WANTED: TERRITORY OPEN for responsible men. Write for our offer. Ottawa, Star Nurseries, Ottawa, Kan.

INTEREST TO WOMEN

QUILT BOOK, ABOUT 200 DESIGNS, SENT postpaid receipt 10c. Needleart, 609 South Paulina, Chicago.

MISCELLANEOUS

STAR CHECKERS, THE MOST POPULAR game today, heavy plywood, especially well made, \$1.35, with marbles, postpaid. Lighter board, \$1.15. Alvin Long, Lyons, Kan.

BARON KOUCH HEALTH BOOKS WILL RElieve your diseases by removing their causes. Send 10c for booklet today. Box 1506, Decatur, Alabama.

LAND-ARKANSAS

STOP-READ-COME

to Arkansas, Ranches, stock farms, medium sized farms, poultry, fruit, berry, truck acre-ages, 1938 list on request, Farnsworth Farm Agency, 204 Towson Street, Fort Smith, Ark.

LAND-OREGON

OREGON FARM HOMES, CROP CERTAINTY and desirable living conditions. Lands irri-gated or ample rainfall. Some capital necessary, No farms for rent. No homestead lands, Write, On-to-Oregon, 824 S. W. Fifth Avenue, Portland. Orekon.

LAND-KANSAS

LAND—RANSAS

LAND AUCTION—1,245 ACRES; FEBRUARY
24; William Griggs Estate, on graveled highway and creek, three miles southwest Falun,
Saline County. Kansas. Modern improvements;
sold in four tracts, positively to highest bidder,
Successful selling of hundreds of farms over
several states enables us to sign contracts guaranticeling satisfactory prices or no commission,
For descriptive folder write Auldin Clark Land
Auction Company, Salina, Kan.

OWNER LIVING LONG DISTANCE FROM THE
farm wishes to sell 80 acres in castern Kansas,
Neosho county between Chanute and Ft. Scott.
Good land, fair barn and rundown house. An opportunity to get 80 acres at low price. Good
roads, K. E. Shepard, 360 N. Michigan Avenue,
Chicago, Ill.

FARMS; ALL SIZES, TYPES AND PRICES,

portunity to get 80 acres at low price. Good roads. K. E. Shepard, 360 N. Michigan Avenue, Chicago, Ili.

FARMS: ALL SIZES, TYPES AND PRICES, settle estates, also mortgage company holdings, Eastern Kansas. Write for listings, state what you prefer. Fred L. Coleman, Garnett, Kan. EIGHTY ACRE LEVEL CREEK BOTTOM farm. Alfalfa, timber, close town, Improvements cost \$4500. Federal loan \$1500. Sell emprovements cost \$4500. Federal loan \$2500. Sell

LAND-MISSOURI

FEDERAL FARM VALUES. A COMPLETE variety in Missouri, Illinois, and Arkausas to choose from. Well located. Priced to sell. Easy terms. Just a few advantages of buying your farm from the Federal Land Bank of St. Louis. These are typical. 160 acres. Johnson county. Missouri, 180 acres. Johnson county was the howards of the property of the control of the country. The country is the country of the

LAND-MISCELLANEOUS

IAND—MISCELLANEOUS

FEDERAL LAND BANK FARMS FOR SALE.

We have farms and ranches in Kansas, Oklahoms, Colorado and New Mexico, Priced on actual value, Sold and New Mexico, Priced on actual value, Sold on one of the colorado, and serious and operating costs and serious and order of fertile, productive farms of the colorado, and serious and Oregon, Write for free book and full information. E. C. Leedy, Dept. 202, G. N. Ry., St. Paul, Minn.

FARMING THAT PAYS THE FARMER IN North Carolina. Good farm lands at reasonable prices. Long growing season, diversified crops offer real profit opportunities. Livestock, dairying, fruit culture, truck farming. See advertisement page 37. Write Dept. Conservation and Development, Raileigh, N. C.

BARGAINS IN LAND, WHERE CROPS ARE dependable. Washington, Minnesota, Montana, Idaho, Oregon and North Dakota, Literature, Impartial advice, Specify state, J. W. Haw, 81. Northern Pacific Ry., St. Paul, Minn.

REAL ESTATE SERVICES

SELL YOUR PROPERTY QUICKLY FOR cash no matter where located. Particulars free. Real Estate Salesman Co., Dept. 510, Lincoln, Neb.

IN THE FIELD

Jesse R. Johnson Capper Farm Press Topeka, Kansas



Ben Hook, veteran Duroc breeder of Silver Lake, has plenty of good breeding stock for sale.

G. V. Cook, of Freeport, has 4 registered Percheron stallions for sale. Weanlings and 2-year-olds.

G. W. Locke, DeGraff, has the largest and highest producing herd of registered Red Polled cattle in the state. He always has breeding stock for sale.

Harry Bird, referred to in the last issue as Harry Birdwell, has advertising in our Polled Shorthorn section. Mr. Bird has a good herd and can supply the needs of his old as well as new customers. H. F. Miller, of Norcatur, Hereford breeder, has 20-month-old bulls for sale. Mr. Miller sold the most of his herd to a Texas breeder last fail, but he still has a small herd and wants to sell the bulls right away.

Lawrence Strickler, Milking Shorthorn breeder, reports good inquiry and sales on ad-vertising carried in Kansas Farmer. Among the recent sales made was a pair of bred heifers to M. R. Goering, of Moundridge.

Charles Philips, of Monticello, Illinois, writes as follows, "Flease give me addresses of parties in Kansas, Oklahoma and Nebraska who have Hereford cattle and sheep for sale. I have a farm in Missouri that I want to stock."

F. E. Wittum & Son write for change of copy and say they have 34 bred gilts for sale and as fine a lot of fall boars and gilts as they ever have raised on the farm. The Wittums breed the thicker fleshed, easier feeding kind of Polands,

Ben M. Ediger, of Inman, offers a 3-month-old son of a line bred Bar None Clay Duke buil, junior champion at the International in 1937. The calf's dam is a granddaughter of the 18,000 pound milk producing cow, Glenside Pearl Clay 7th.

When Clarence Miller of Alma says "short-legged, easy feeding kind of Durocs" the state-ment means just what it says, Mr. Miller has bred gilts and fall pigs of this type and is will-ing to send them out on approval. They are registered and immuned. Address him at Alma.

Vern Albrecht, veteran Duroc breeder and showman, has a fine selection of bred gilts for

Kansas Hog Raisers!!

Come to This Big Hampshire Bred Sow Sale in

Fremont, Neb., Feb. 28

12 leading Nebraska Hampshire Breeders re consigning 75 bred sows and gilts and ome top notch fall boars to this sale. You fill find many attractions and a useful of-cring throughout. The breeding is excellent that a good range of farrowing dates. Write ome for a free catalog.

H. C. McKelvie, Sale Mgr. Lincoln, Nebraska Col. A. W. Thompson, Auction

Quigley Hampshire Farms

Bred Sows and Gilts. Registered, immuned. Twenty head to farrow in March and April. Bred to sons of High Score, twice World's Grand Champion.

15 head boars ready for service.

QUIGLEY HAMPSHIRE FARMS Williamstown, Kan. Mail Address: St. Marys, Kan.

SHEEP

BRED SHROPSHIRE **EWES**

HENRY E. SCHMIDT, FREEPORT, KAN. President, Harper Co. Sheep Producers

AUCTIONEERS AND SALES MANAGERS

Bert Powell

AUCTIONEER

LIVE STOCK AND REAL ESTATE

COL. H. D. WILLIAMS
Livestock and general farm sales auctioneer.
Denton (Doniphan Co.). Kan.

HORSES

Reg. Percheron - Belgian Sale In the Animal Husbandry Arena, Stillwater, Okla., Thursday, Feb. 24

39 mares (most of them in foal and broke ork). 12 stallions. For catalog, address OKLAHOMA PUREBRED HORSE AND JACK ASS'N.

Reg. Belgian Horses

Prize winners at several state fairs. Stallions nd mares, priced reasonable.

J. F. BEGERT, BOX 43, TOPEKA, KAN.

PERCHERON HORSES

7 Pure Bred Percheron Stallions

year-old black stallion, coming 2-on; 5 coming yearlings, blacks and wals, priced right. Would consider TERRELL BROS., R. 1, McDONALD, KAN.

Reg. Percheron Stallions and Mares with the most popular blood lines. H. G. ESHELMAN, SEDGWICK, KAN,

Percheron Stallions

ars old. Imported Glacis, Lagos and Hilear breeding. GEO. V. COOKE, FREEPORT, KAN.

PUREBRED PERCHERON STALLION 2-year-old, for sale. CHARLEY DELP, ST. JOHN, KAN.

sale. Mr. Albrecht says they are as good as he has ever raised, weighing up to 450 at 10 months old. He also has some good young purebred Angus bulls. They include first, second and third calf winners in the Columbus, Neb., show. The others are of the same breeding.

I wish to call your attention to the Kansas Milking Shorthorn Society Selling Service. For information pertaining to Kansas Milking Short-horns in a general way get in touch with their secretary, Harry Reeves of Pretty Prairie.

Fred D. Strickler, Hutchinson, well known breeder of Ayrshire cattle reports a very good demand from breeders and 4-H Club boys for his young breeding stock. His herd average last year was 373 pounds of fat and he had a high Ayrshire cow in their testing association with 467 pounds of fat.

With courage to overcome obstacles such as short crops and still shorter pastures, Mr. and Mrs. C. A. Randel, living near Cedar Bluff, are holding their herd of Polled Shorthorn cattle intact. Their present herd bull, Collynie Gallant 2nd., a Hultine bred bull, is an extremely low, thick animal. At present they have for sale a yearling and a mature herd bull.

The Duallyn Farms Milking Shorthorn herd of Eudora, was established in 1917 and has practiced careful selection of breed stock, size, type and production, in this herd possibly as many record of merit cows will be found as in any herd in the state. The present herd sires are Northwood Butterboy 9th and Louis Protector. The dams of these bulls were high producers.

Kansas Farmer has just received from the Ayrshire Breeders' Association of Brandon, Vt. a nice schedule of advertising to start at once and extend over several months. Breeders of Ayrshire cattle who live in Kansas appreciate this service and the assistance Secretary Conklin

We call your attention to the announcement of Bert Powell, livestock and real estate auctioneer in this issue of the Kansas Farmer. Mr. Powell has been located in Western Kansas for years but now is located at Topeka, Kan. Mr. Powell has been selling for many Kansas livestock breeders for many years and we know that he is capable of conducting sales of purebred livestock of all breeds and can sincerely recommend him as an able salesman.

Arthur Bloomer, who owns one of the leading Shorthorns of the state, offers young bulls suited to head registered herds and improve the quality of commercial herds. He features the blood of Revolution and Divide Superb. The Bloomer cow herd carries the blood of leading Scotch families; he has used Tomson bred bulls. Mr. Bloomer always reaches out for the best when buying breeding stock and is willing to pay what is necessary to own a good animal. His address is Lancaster.

Henry E. Schmidt, president of the Harper County Sheep Producers Association, is offering for sale a few registered ewes. These ewes are bred to Mr. Schmidt's stud ram which sired the champion pen of lambs, on foot and carcass, at the 1937 Kansas State Lamb School held in the American Royal Building. Lambs sired by this ram have been constant winners wherever shown. The top ram lamb of the 1937 Southern Kansas Ram sale that brought \$42.00 was sired by Mr. Schmidt's ram.

Foster Farms, of Rexford, is well known to every Kansas Hereford breeder. It is one Hereford establishment where you can go and be assured that you can buy breeding stock of the highest type any time of the year. This well known Hereford establishment has possibly as many prize winners on their farm as you will find anywhere. Yet if you want bulls or females for range or farm, they have them also. Manager E. D. Mustoe will be pleased to show you this splendid array of Herefords.

Terrell Bros., Percheron breeders of McDonald, started breeding purebred Percherons 3 years ago. They made their original purchase from Dell and Son of Beatrice, Neb. This purchase consisted of a mare in foal and 2 fillies. They have kept the produce of these mares and added two purebred mares in the meantime, and their herd now numbers 17 head. They now wish to sell a black 4-year-old stallion and 6 head of younger stallions. See their advertisement elsewhere in this issue.

E. C. Lacy & Sons, of Miltonvale, offer at private sale a good selection of red and roan Scotch Shorthorn bulls sired by their great breeding bulls, G's Victorious and Scottish Major. Among them are several real herd bull prospects. They are from 10 months to 2 years old. No Kansas herd has made greater progress in good Shorthorn development during the last half dozen years. They have made correct matings and their cattle have won a lasting place among breeders and farmers who like the low set, thick kind of cattle.

A Kansas purebred livestock breeder recently said, "Boyd Newcom works for the breeders the year around but charges only for what he does on sale day," I recalled this remark recently when spending an hour with Mr. Newcom in his office in the Exchange building at the Wichita Stock Yards. While we visited or walked to and

from the hotel during the dinner hour, it seemed that everyone wanted to ask some question regarding the livestock business. Where to buy a stallion, a pair of mares, a buil or something pertaining to past or coming public sales. Mr. Newcom has lived in Wichita a long time and has a wide acquaintance among the farmers and stockmen of the Southwest. He always is pleased to give information concerning the good of the livestock business. He does it in a frank, kindly way that with his unfailing humor has endeared him of farmers and breeders in every part of the states where he makes sales.

The Wilken Bros., who live northwest of McDonald in Cheyenne county, have been breeding registered Hereford cattle for more than 20 years and now have about 300 head. The firm is holding its first public sale on Monday, February 28. The sale will be held in the big Bird City sale pavilion They are selling about 85 head, all young cattle. Nothing over 3 years old, 25 bulls coming yearlings, 40 heifers coming yearlings, heifers, and 20 2 and 3-year-old bred heifers. Applications may be filed any time for a catalog.

Quigley Hampshire Farms, owned by E. C. Quigley, of St. Marys, again is offering for sale 20 head of choice spring gilts and young sows bred to sons of High Score, the world's grand champion in '37 and '38. The junior champion also was bred by the Quigley Hampshire Farms. Their offerings are of the best and the blood lines are distinctive. Every offering is registered, immunized and guaranteed. These sows and gilts will farrow in March and April. Only 20 head are offered. They also have 15 head of boars that are ready for sale.

We wish to call to your attention the round-up sale of Hereford bulls to be held in Kansas City, Mo., on Monday and Tuesday, February 28 and March 1. This sale offers everyone in-terested in buying herd material a chance to make a selection to fit their particular needs. In an offering of this size it gives the small farmer as well as the rancher a chance to buy what he wants at a price he can afford to pay. Cattle all are tested for T. B. and abortion. Write for catalog to The Hereford Association, at 300 West 11th, Kansas City, Mo.

Merl G. Palmer has bred registered Herefords on his farm just south of Hope, in Dickinson county, for many years. Starting with a Good Donald and Beau Mystic cow foundation, and using good bulls has made it possible to build up a good herd. The herd now numbers about 120. The older and commoner kind were weeded out during the depression years and now his herd is very uniform. The 20 bulls he offers are of different ages. All of them are ready for service. They are in nice thrifty condition, not loaded with fat, but carrying about the right amount.

Jas. T. McCulloch, of Clay Center, has been making sales for the purebred livestock breeders of this and adjoining states for a good many years. He has thrived on the work. His methods of selling are modern and he not only continues

"I am well pleased with the result of my advertisement. I sold all the gilts to-day to one man and have 5 inquiries to date." — Leo Schumacker (breeder of Spotted Polands), Herington, Kan.

to sell for those who have employed him for their sales in other years but others have come to note his ability to conduct sales in a way always satisfactory to both buyer and seller. He is an unusually hard worker and the last animal sold at the close of a hard afternoon gets the same attention as does those coming into the ring when the bidding is more brisk.

when the bidding is more brisk.

Former Governor Charles W. Bryan of Lincoln, Neb., recently dispersed his draft horses and farm machinery. The sale was advertised in Kansas Farmer. Mr. Bryan writes, "I received several inquiries from your paper and a large number of Kansas people attended the sale. The crowd was estimated from 8,000 to 10,000. Horses and machinery sold well as could be expected. Five young teams of unregistered mares sold for prices ranging from \$400 to \$500 a span. I appreciate the good attention given to my advertising and extend best wishes to everyone connected with your publications, including Jesse R. Johnson."

H. C. McKelvie, sales manager, Lincoln, Neb., notified us to claim February 28 for the Nebraska Hampshire Breeders' bred sow and gilt sale to be held at Fremont, Neb., on this date. Twelve of Nebraska's leading breeders are consigning to this sale. Nebraska breeders have produced in the last few years possibly as many or more outstanding Hampshires than the breeders of several adjoining states. Considering the number that is selling you should have an opportunity to select breeding stock at prices that will not be prohibitive. Bred sows and gilts are hard to find this spring. Write Mr. McKelvie for catalog.

L. E. Laflio, of Crab Orchard, Neb., has on hand an unusually fine selection of young registered Aberdeen Angus buils. They range in ages from 10 months up to over 2 years. There also is as usual a limited number of females ready to go out into new hands. They are bred to the grand champion buil at the Nebraska show and sale last year. This buil is seven-eighths the blood of the International grand champion last year. He is also the highest priced buil sold in Nebraska last year. The Laflin cattle are of correct type and none are better bred. The herd is located just over the line in Nebraska. Mr. Laflin's advertising appears regularly in Kansas Farmer.

larly in Kansas Farmer.

The sale advertisement of W. G. Buffington, who sells registered Shorthorns in the big new sale pavillon at Arkansas City, February 22, carries a cut of a choice breeding cow in the Buffington herd. This cow as a heifer was a member of the show herd and now is a valuable breeding matron in the herd. Mr. Buffington is selling a fine lot of young stock and some cows with big calves at foot. It will be a good place for the beginner as well as club boys and girls. The place of selling has been chosen with a view to the comfort of those attending the sale and everyone is invited by Mr. Buffington to come as buyers or visitors. Write now for catalog if you haven't already done so. His address is Geuda Springs.

One of the outstanding herds of Polled Here-ord cattle to be found in Kansas is the John avenstein herd at Belmont in Kingman county, his herd was established 20 years ago with a nall foundation of deeply bred Anxiety horned

For Most 4% Milk

Write for literature and list of breeders Ayrshire Breeders' Ass'n. 260 Center St., Brandon, Vt.

RAISE AYRSHIRES

Reg. Ayrshire Bulls

\$100. FRED D. STRICKLER, HUTCHINSON, KAN

GUERNSEY CATTLE

Would you be interested in a herd sire, a grandson of one of these

Langwater Valor Langwater Slogan Langwater Africander

Three of the great MAY ROSE sires of the age. 170 cows in herd. Everyone has a DHIA record, and many Advanced Register records. Bulls are priced right.

Jo-Mar Farm

Reg. Guernsey Bulls

for saie. Six to 24 months old. Popular breeding. Prices, \$50 to \$150. Tb. and Bang's accredited. TOM COOPER FARM. ARDMORE, OKLA.

HOLSTEIN CATTLE

Dressler's Record Bulls From cows with records up to 1,018 lbs. fat. We bird the highest producing herd in United States, averaging 658 lbs fat. H. A. DRESSLER, LEBO, KAN,

Holstein Bull For Sale

stock. For more information and prices write CARL TANGEMAN, NEWTON, KAN. MILKING SHORTHORN CATTLE

DUALLYN MILKING SHORTHORNS

Young Bulls for Sale—From Small Calveto Yearlings. Their dams are Record of Mericows. We have one of Kansas' oldest and highest producing herds. The Young Bullstom these cows are for sale. Write us for

JOHN B. GAGE, EUDORA, KAN. (Farm 4 Miles Southwest)

GRANDALE MILKING SHORTAORNS

ter of Glenside Pearl Clay the 7th cow for butterfat in the U. S. Price 7 \$65.00. BEN M. EDIGER, INMAN, KAN.

SOCIETY SELLING SERVICE offers herd bulls, yearlings, bull calves, cows. Located near you. Members' cattle are listed for \$25 per head. Dues \$1 a year. KANSAS MILKING SHORTHORN SOCIETY Pretty Frairie, Kan.

Livestock Advertising Copy

Should Be Addressed to

Kansas Farmer Livestock Advertising Dept.,

Topeka, Kansas

Kansas Farmer is published every other week on Saturday and copy must be mailed to reach the Kansas Farmer office not later than one week in advance of publication date.

of publication date.

Because we maintain a livestock advertising department and because of our very low livestock advertising rate we do not carry livestock advertising on our Farmers' Market page.

If you have pure bred livestock for sale write us for our special low livestock advertising rate. If you are planning a public sale write us immediately for our

SPECIAL PUBLIC SALE SERVICE

KANSAS FARMER Topeka, Kansas

Jesse R. Johnson, Manager, Livestock Advertising Department

KANSAS FARMER ublication Dates, 1938

To insure being run in any issue, copy should be in our office one week in advance of any date given above.

On Farm, Half Mile South of Belle Plaine, Kan., 20 Miles South of Wichita

Reg. Percheron Horses & Jersey Sale

Wednesday, Feb. 23

20 REGISTERED PERCHERONS

6 studs, from one year to mature stallions. 14 mares and fillies (all mares of breeding age are in foal and broke to harness). The blood of CARNOT, CASINO and HOULEUX. Mares bred to a son of IMP. MU.

REG. JERSEYS: Cows in milk, one 2-year-old bull and a choice lot of heifer and bull calves. Financial King, Stockwell and St. Maues breeding.

350 EWES: Good Westerns, bred to registered Blackface rams. For March lambing. Write for catalog to

W. P. Hamilton, Belle Plaine, Kansas

Round Up Hereford Sale

Kansas City, Mo. Monday and Tuesday Feb. 28 and Mar. 1 1938 Sale Starts at 10:00 a. m.

ES

G KAN.

der

res of ie has anced right.

NSAS

lls

reeding. credited. OKLA.

lls

averaging, KAN.

le write AN.

RNS

DRNS

cows.

TETY

y

opy ad-

Herd Bulls Range Bulls Farmers' Bulls

300 HEAD
All cattle tested for Tb. and

Don't miss this sale and oppor-tunity to buy your bulls. Catalogs on request only.

American Hereford Assn. 300 West 11th St. Kansas City, Mo.

SPANGLER OFFERS
HEREFORD BULLS
health prevents me from exhibiting my
at the Denver show this year as usual. But
he buyers' advantage. I am offering some
ty good yearlings and calves at very attracprices. prices.
S. SPANGLER, HUTCHINSON, KAN.

caldo Herefords for Sale head of bull calves and 20 heifers of un-quality, for sale, sired by Bocaldo 50th.

ord right.
SCHLICKAU, HAVEN (Rene Co.), KAN,
POLLED HEREFORD CATTLE 20 Reg. Hereford Bulls

age from 12 to 24 months, of good type and the by BEAU BLANCHARD 142st out of Good and and Beau Mystic cows. These bulls are scellent condition for service and priced right, if G. Palmer, Hope (Dickinson Co.), Kan.

POLLED HEREFORD CATTLE

Plain View Farm Polls
Folied Hereford bulls for sale from 8 to 20
sths old. Plato, Domino and Woorthmore
sting. Good individuals and none better bred.
JESSE RIFFEL
Enterprise (Dickinson County), Eassas.

AVENSTEIN POLLED HEREFORDS

choice selection of lowest, thick bulls in ages from 12 months. Polled Plate, Anxiety and Domino dier. In good condition, with lots of quality.

"Our Cattle Speak for Themselvies."

Ravenstein, Belmont (Kingman Co.), Kan.

Polled Hereford Bulls ONE AND TWO YEARS OLD. GOERNANDT BROS., AURORA, RAN.

ANGUS CATTLE

Laflin Gifers Angus Cattle Choice ANGUS BULLS and FE-MALES for sale.

L. E. LAFLIN

Crab Orchard, Nebraska, Box-k

SHORTHORN CATTLE

Scotch Shorthorn Bulls

and roans, 10 months to 2 years old, G'S VICTORIOUS, or SCOTTISH MA-everal outstanding show and herd buil pects. Priced from \$60 up. C. LACY & SONS, MILTONVALE, KAN.

ERVICEABLE SHORTHORN BULLS and roans, out of some of our best cows ed by Sni-A-Bar Red Robin. Also females erent ages, cows with calves at foot. Fed and bred right. Abortion free, by Federal S. B. AMCOATS, GLAY CENTER, RAN.

HAILEY'S REG. SHORTHORNS ellers, Scotch breeding and sired by good bulls. R. E. HAILEY, WILSEY, KAN.

POLLED SHORTHORN CATTLE

Polled Shorthorns

We are reducing our herd to 125 head and BULLS and 20 FEMALES still for sale. See of the best of the herd and of the dcd. \$50 to \$200. 22 miles west and 6 south Hutchingan

ANBURY & SONS, Plevna, Kan.

Bird Offers Polled Shorthorns y and well bred. Free of Bang's. See RRY BIRD FARM, ALBERT, KAN.

NDEL'S POLLED SHORTHORN BULLS
Tale: Red Goods 2nd (a red Nov. yearling), also
stroid red herd buil, RED ARCHER. Priced reslis for quitek sale. Write or come and see them.
R. F. Randel, Cedar Bluffs, Kan.

RED POLL CATTLE

RED POLLS FOR PROFIT
them—young bulls, open and bred helfers;
lking strains. Tb. and abortion tested. Vis-W. Locke, DeGraff (Butler Co.), Kan.

BROWN SWISS CATTLE

^{ro}wn Swiss Bulls D. SLUSS, R. I. EL DORADO, KAN.

cows. The first bull purchased and every one since used has been a Polled Plato. This line of breeding has produced uniformity and quality. Since starting, some Domino cows have been added and the present herd bulls carry much Domino breeding. Among the 75 head of breeding females is a daughter of Hasford Tone 74th, sire of the majority of the Hazlett show herd that sold at the Hazlett dispersion. Several are granddaughters of Dundy Domino and Prince Domino. Some choice young bulls are now for sale.

On their good farm not far from Enterprise, in Dickinson county, Earl Elliott and his son have been breeding registered Polled Herefords since 1934. Starting with a few head of good ones and determined to keep them good, considerable culling has been practiced. Their present herd bull and sire of many of the females and young bulls was bred by Jesse Riffel, he is out of Mr. Riffel's great foundation cow, Miss Worthmore 10th, making him a half brother to Worthmore Beau 8th, the bull that was exported to Australia a few years ago. Some of the females in the herd were purchased of the Goernandt Bros. and are in calf to their great bull Maxwell Mischief Beau. Some of them are daughters of Imperial Mischief 2nd. The Elliotts have recently purchased one of the most promising bull calves of the season. He is out of a Domino cow and carries a world of thickness and bone. This calf is also from the Riffel herd.

and bone. This calf is also from the Riffel herd.

Few breeders of purebred livestock have forged to the front and achieved outstanding success as has Jesse Riffel of Enterprise. Mr. Riffel, altho still a young man, is one of the best known Polled Hereford men in the business. Whatever success he has met with is due to his genius as a breeder and a dogged determination to go forward and breed cattle as good or better than older breeders have. Starting 20 years ago as a boy with 3 head of Polled Plato cows and a Worthmore bull, without capital or experience, he moved steadily forward toward a definite goal. What that goal was can best be described by the kind of cattle that make up his herd of over 60 head. It has been said that one must know what he wants before he starts to get it if he is to succeed. Mr. Riffel had a very definite idea of the kind he wanted when he started but he has grown with the business and now of course would not be satisfied with the kind he started with. His last bull purchase is without doubt the outstanding herd bull prospect of the years as far as his herd is concerned, Bocaldo 66th, a son of Bocaldo 50th, a line bred Bocaldo 66th, a son of Bocaldo 50th, a line bred Bocaldo and one of the thickest, lowest set, straight, shortlegged young bulls I have seen this season. The cowherd is largely daughters of such bulls as Excellent Grove, WHR Domine 48th, with plenty of Worthmore blood mixed in Recent bull sales include one to Springstead Bros., Boulder, Wyo; Earl Elliott, Enterprise; Axiel Johnson, Iowa; one to Fred W. Lamb of Maxville, and one to Cecil Medley of Tampa.

Ten years ago Otto Wearish, of Oxford, had one of the good Shortlucru herds of the state.

Cecil Medley of Tampa.

Ten years agg Otto Wearish, of Carford, had one of the good Shortbarn herds of the state. Oil wells were these beginning to be brought in on his farm and he dispersed the herd. The farm once covered by good cattle soon was known as one of the largest sill producing leases in Kansasa. After being without Shortborns for 5 years Mr. Wenrich began to assemble another herd, profiting by the years of experience in buying and selecting cattle he was able to assemble what is now a leading herd. He has bought foundation stock from such prominent herds as A. C. Shallenberger, Alma, Nebr., Sni.A-Bar, Tomson Brothers, and other of the best known herds in the country. Mr. Wenrich bought the farm that adjoins the big oil field and has equipped it economically for the care and comfort of his cattle. He also has purchased several other good farms in the immediate neighborhood and instead of moving the buildings from the land he has rebuilt them and turned them into comfortable homes for tenants selected from his old neighbors of other days. He owns a pair of outstanding buills, one from the Sni-A-Bar and one from a leading Ohio herd. Mr. Wenrich drives thru the big oil field with indifference and continues the Shorthorn conversation, happy in the business he loves.

Many of the older breeders of Shorthorn cattle have watched with absorbing interest the growth and development of the S. B. Amcoats herd at Clay Center. Mr. Amcoats bought his first registered Shorthorns from F. M. Gifford, of Wakefield, in 1905. The Gifford herd then was the oldest herd of Shorthorns in the state, ranking second to none, the Col. Harris herd having been dispersed a few years earlier. Within a short time the entire Gifford breeding herd was purchased by Mr. Amcoats, this purchase including many near descendants of the great breeding buils Red Knight and Cordelias Knight. Following this transaction and during the nearly 40 years that have elapsed, 8 or 10 Scotch bulls of bloodlines suited to build or improve the herd have been bought and used in the herd. Many of them som's of imported bulls. Hundreds of Shorthorns have been bred and sold from the farm. For some time many bulls were purchased from customers among the smaller breeders and resold. Mr. Amcoats estimates that he has sold nearly 400 bulls since the herd was founded, and probably nearly as many females. Twelve public sales have been held and the rest sold privately. Mr. Amcoats thinks if the calves continue as promising as they now are his present bull, Sni-A-Bar Signet will be the greatest breeding bull he has ever owned. For several years the herth has been under federal test for abortion and is free, but Mr. Amcoats will continue the tests to be certain the herd is always kept free from all kinds of disease.

Public Sales of Livestock

Percheron Horses.

Percheron Horses.

Feb. 22—W. P. Hamilton, Bulle Plaine.
Feb. 24—Oklahoma Furebred Horse and Jack Association, Stillwater, Gkla.

Beighan Horses
Feb. 24—Oklahoma Purebred Herse and Jack Association, Stillwater, Gkla.

Shorthers Cattle
Feb. 24—Oklahoma Purebred Herse and Jack Association, Stillwater, Gkla.

Shorthers Cattle
Feb. 22—Buffington & Son. Geuda Springs. Sale in pavilion at Arkansas City.

March 17—H. M. Wible, Corbin.

Jarren Cattle
Feb. 23—W. P. Hamilton, Belle Plaine.

Aberdeen Angus Cattle
May 2—Krotz & Son, Odell, Neb.

Hameford Cattle
Feb. 28—Paul Wilkens, McDonald, Kan.

Sheep
Feb. 23—W. P. Hamilton, Belle Plaine.

Hampshire Hegs
Feb. 28—Nebraska Hampshire Breeders' Association sow sale, Fremont, Neb.

Wilkens Bros. Sale of **Purebred Herefords**

Bird City, Kansas

Northwest Corner County on State Hiway 36

MONDAY **FEBRUARY**

- 85 head of young Herefords
 25 coming yearling Bulls
 40 coming yearling Heifers
 20 2 and 3-year-old bred Heifers
 (These are bred to Champion Domino 48th)

SIRES REPRESENTED IN OUR HERD

MISCHIEF STANWAY by Beau's Prince
DANDY STANWAY by Rex Mischief 2nd
ANXIETY DOMINO by Anxiety 4th Jr.
PALADIN ASTER 7th by Beau Aster 66th
SHORTY ONWARD by Onward's Prince 2nd

PRESENT HERD SIRES

CHAMPION DOMINO 48th and SHORTY ONWARD

Our present herd sires were bred by K'mberling Bros. of Champion. Nebr.
These bulls are strong in Domino breeding. The young bulls and heifers are sired by the above bulls.

Twenty Years Breeding Herefords

After breeding Hereford cattle for twenty years we have decided to select the choice of our young cattle from our herd of 300 head to make up our first auction.
These cattle sell without special fitting and in just breeding condition.

CATATOG ON REQUEST

Wilkens Bros. (Cheyenne Co.) McDonald, Kansas

TURE AND 40

EB 17 1938

STATE - KANSIS

MANHATTAN

1BRARY

Buffington's Registered Shorthorn Sale

Featuring the blood of MONARCH 2nd (grandson of Collyne Cup-bearer) and BROWNDALE SUL-TAN (son of Elellyn Browndale).

SALE PAVILION Arkansas City,Kan. Tuesday,



45 HEAD-20 mature cows, 15 already have big strong calves, others will drop calves during the winter. LAVEN-DERS, CLARAS, etc.

3 good young bulls ready for service.

15 OPEN HEIFERS, many of them suited to improve the best herds. This annual sale is held to sell the natural surplus accumulation of the herd. The cattle sell in nice breeding form but not loaded with fat. They have been fed only such feeds as grow on our farms.

Write for Catalog and Mention KANSAS FARMER

W. G. Buffington, Geuda Springs, Kansas

Boyd Newcom, Auctioneer

Jesse R. Johnson, Fieldman

DUROC HOGS

Durocs of Royal Blood years a breeder of heavy boned, shorter legged, easier ling, medium type. Bree Gilts, Sows, Boars, all ages sale, 300 in herd, Immuned, Registered, Shipped on roval, Come or write me your needs. Catalog. W. R. HUSTON, AMERICUS, KAN.

Choice Duroc Bred Gilts

Both Senior and Junior. Best of breeding. Also 10 purebred Aderdeen Angus bulls, up to 15 months old. Prices reasonable. VERN ALBRECHT, SMITH CENTER, KAN.

Miller's Short Legged Durocs The easy fattening, short legged, dark red kind. Registered and immuned. Bred gilts and fall pigs shipped on approval. Clarence F. Miller, Alma, Kan. JERSEY CATTLE

ROTHERWOOD **JERSEYS**

"EAGLE" and OBSERVERS KING ONYX.
A. LEWIS OSWALD, HUTCHINSON, KAN.

POLAND CHINA HOGS

Better Feeding Polands Shorter legs, broader, thicker fleshed bodies, red gilts and fall pigs. Prolific, sound and rofitable.

F. N. WITTUM & SON, CALDWELL, KAN.

Now there's a friendly Republic Dealer within a few minutes of your farm

• Today your local Republic dealer is your neighbor. You can reach him quickly and easily. He talks to you man to man. He treats you fairly. He is a booster for your community. He devotes himself to serving you well—for his living depends on your business and your good will.

He is a specialist in his line. He selects his merchandise carefully. He carries extensive stocks, so that you may have the widest possible choice. He handles the Republic line of fence, barbed wire, steel posts, roofing and other products, because he knows how they are made, how durable they are, how well they will serve you. He knows their reputation for quality and long life.

He knows how Republic operates. He knows that it is an aggressive, modern organization that leads in the development and production of special steels and steel products. He knows that Republic gives you an honest dollar's worth of merchandise for every dollar that you spend. And he knows, too, that Republic has invested millions of dollars in special plants and equipment for the exclusive production of agricultural steels and steel products.

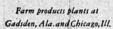
Republic sees the great need

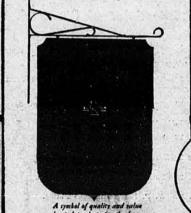
for better and finer steels on America's farms. And Republic is filling that need through keen, alert, business-like dealers in each community—men who truly represent Republic—men who command your respect both as merchants and as neighbors.

The Republic dealer in your trading center has been selected with much thought and care. He is a good man to know.

REPUBLIC STEEL CORPORATION
(Wire Div.) 7850 South Chicago Ave., Chicago, IL

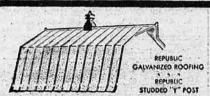
(General Offices: Cleveland, 0.)







How well do you know your local dealer? Your Republic dealer is interested in you. You should be interested in him—for each of you helps the other. Plan to get better acquainted.





REPUBLIC FARM FENCE REPUBLIC CHANNEL POST REPUBLIC BARBED WIRE

