

The Farm Journal

50 Years Young



January, 1927

50th Year

Your New Furniture — The Three-Story Garden, by A. B. Ross
— The Corn-Borer Is Loose! — Six Essentials of the Home



Good For
Growing Boys and Girls

How they love it and what big appetites they have after a few hours of real lively play. There's nothing better for them than outdoor exercise and plenty of good wholesome foods made with

CALUMET
THE WORLD'S GREATEST
BAKING POWDER

Bake often — always use this perfect leavener for best results.

DOUBLE ACTING

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Sales 2½ Times Those of Any Other Brand

Our Editorial Plan

We publish The Farm Journal for Our Folks. Our Folks, now numbering more than five million, are all those into whose homes the paper goes—father, mother, son, daughter—all the members of the household, dwellers on farms and in villages throughout the land. Our first care is that its pages be honest and pure, and full of sunshine and hope; that it may ever help and never harm those who read it; and be a source of information, profit, comfort and encouragement to all.

The Farm Journal is four years for \$1.00; to new subscribers on trial, two years for 50 cents, and one year for twenty-five cents; to subscribers in Philadelphia, Canada and foreign countries, two years for \$1.00.

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The Farm Journal

Unlike Any Other Paper

JANUARY, 1927 VOL. LI, NO. 1
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Fair Play

We believe that all the advertisements in this paper are trustworthy. To prove our faith by works, we will make good to actual subscribers any loss sustained by trusting advertisers who prove to be deliberate swindlers. Just as we can not guarantee a pig's tail to curl in any particular direction, so we shall not attempt to adjust trifling disputes between subscribers and honorable business men, nor pay the debts of honest bankrupts. This offer holds good one month after the transaction causing the complaint.

In writing to advertisers, write as you would be written to, in the spirit of fair play. Always say, "I saw your advertisement in The Farm Journal." This will secure prompt and careful attention to your order.

How To Make Us Happy

600th issue of The Farm Journal; no issue has ever been skipped; there has never been a change in our basic principles and policies in 50 years; there has been no change in name, in ownership, or in frequency of issue. Some record, isn't it?

But to return to golden anniversaries: it will be very pleasant if you feel like making us a golden gift of some kind. I couldn't accept it, of course, but there is something else I can accept—something that will please us more than anything else. And that's subscribers.

I want more subscribers, and I can't think of any who are more likely to like The Farm Journal than your friends and relatives. Won't you send us two or three? Isn't this pretty near the 50th Anniversary of the times you really meant to send us a subscriber or two, and didn't "get it done"?

There is another subscription blank next this page. I hope you'll use it this time, because, I tell you straight, I'd rather have three new subscribers for The Farm Journal than three Anniversary gold watches for myself! Fact.

The 50th Anniversary of The Farm Journal is just round the corner, and that will be the "golden" anniversary, won't it?

Next month, February, makes the 600th issue of The Farm Journal; no issue has ever been skipped; there has never been a change in our basic principles and policies in 50 years; there has been no change in name, in ownership, or in frequency of issue. Some record, isn't it?

Beautiful Big Issue Next Month

we present you with an issue that, the way it looks now, is going to be simply great.



The foreman: "Great Scott, man, you fell nine stories and went through the pavement! Aren't you killed?" Moose: "Boss, ah think that concrete pavement done broke mah fall. And that reminds us that hard-headed farmers, who think they are entitled to 'A Good Living and 10%,' will find The Farm Journal on their side all the time

February is always the largest issue of the year, for several reasons too complicated to explain. Accordingly, next month

First I want to mention a new article by Mrs. Francis King on the small formal garden. There is no reason at all why any family in the country or the small village should not have the dignity and beauty of a formal flower-garden, even if a small one. Mrs. King is an authority.

Speaking of gardens, A. B. Ross contributes the second part of his "Three-Story Garden" article, which is begun in this issue. Four or five times as many vegetables from a small garden with less work, is what makes Ross's system so sen-

sational. Don't miss it.

And here's another piece of news. We have persuaded Arthur J. Mason (yes, the Mr. Mason of the alfalfa-drying process) to let us print an unpublished paper of his on the future of agriculture in the United States.

Mr. Mason is a profound student and thinker, as well as a famous engineer, and the paper we will print has made a deep impression on everybody who has read it. The first section (there will be three or perhaps four in stalments) will appear next month.

Here are just a few of the titles in this splendid issue:

"The Combine-Harvester on Small Farms"
"Straw Vote" Latest Figures
B. W. Snow's "Crop Forecast"
Wile's News Notes from Washington
"Lime on Dirt Roads"
"How Tuberculin Is Made"
"Linoleum for Floors"
"An Office and Big Kitchen"
"Orderly Farm Business"

"The Spud-Selling Cycle"
"How To Solder"
"Winter Poultry Diseases"
"Feather-Fed Fowls"
"Ton-Litter Records Smashed"
"English Walnuts"
"Food for Growing Children"
"A Valentine Party"
"Choosing Your Perfume"
A Review of the New Movies
—and many more.

Now just one word about the February cover; it shows a beautiful mix-up of a sled and its passenger and a wire fence. We're going to ask you to find the cleverest and best title for the picture, with \$50 in prizes to reward you. I think you'll enjoy it.

Guarantee to Subscribers

Realizing that persons unacquainted with The Farm Journal may hesitate to subscribe and pay for several years in advance, we guarantee:

(1) That within three months after paying for The Farm Journal any subscriber may notify us to stop the paper, and the full amount paid for the subscription will be refunded.

(2) That after three months any subscriber may order the paper discontinued for any reason, or for NO reason, and the unused proportion of the amount paid will immediately be refunded.

Arthur H. Jenkins
Editor.

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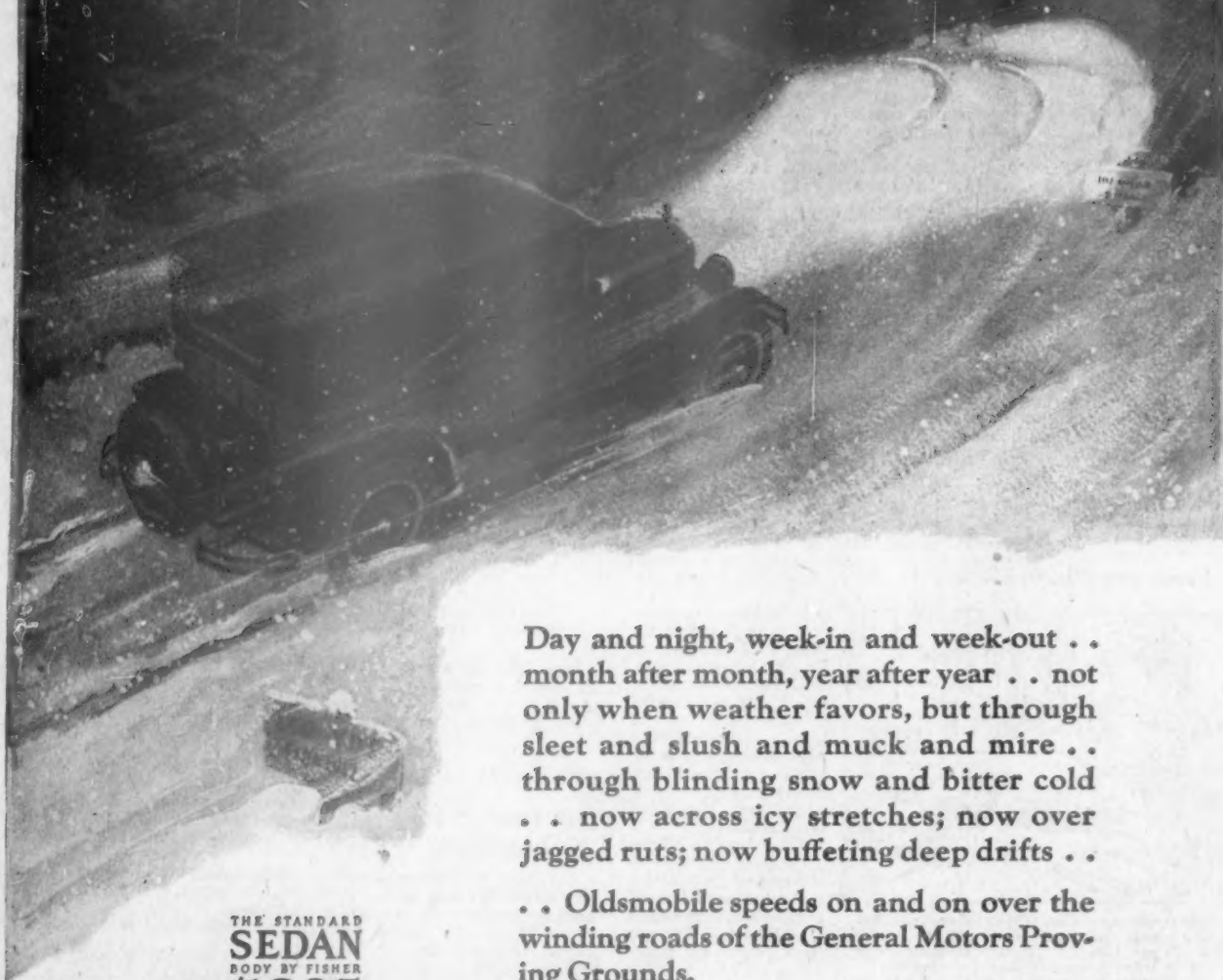
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MEETING THE TRIALS OF MONTHS AND MILES



THE STANDARD
SEDAN
BODY BY FISHER
\$1025
F. O. B. LANSING
The car illustrated is
the DeLuxe Sedan

Day and night, week-in and week-out . .
month after month, year after year . . not
only when weather favors, but through
sleet and slush and muck and mire . .
through blinding snow and bitter cold
. . now across icy stretches; now over
jagged ruts; now buffeting deep drifts . .

. . Oldsmobile speeds on and on over the
winding roads of the General Motors Proving
Grounds.

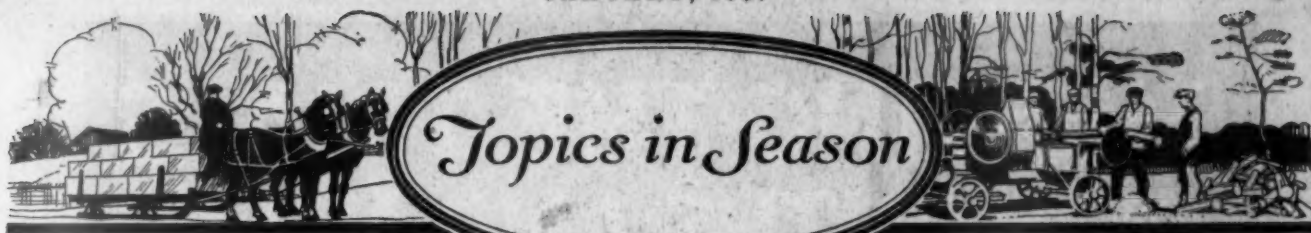
Pioneering . . tirelessly . . true to its
policy pledged to progress.

Proving the true value and full worth of
each new feature and improvement.

Meeting . . surmounting . . in advance . .
the trials of months and miles—"that the
American family may have, at a moderate
investment, a car that gratifies their finer
tastes as well as satisfies their every need."

OLDSMOBILE

Product of GENERAL MOTORS



WE have found three wonderful helps in selling stuff after we have raised it—printer's ink, a camera and a typewriter. Our surplus is advertised; all correspondence is done on the typewriter; and whatever we are trying to sell is snapped with our camera. We try to get a good, clear picture, one with a human-interest element, if possible. Junior was holding the Jersey milk cow by the halter; the man who answered our ad said the price we asked was rather high, but he wanted a gentle, family cow and the little fellow in the picture seemed to feel safe. So Junior and the camera helped sell the cow. *Mrs. L. R.*

Fire, tornado and other insurance for protection against damage to one's residence is a private expense that can not be deducted in making out income tax, but a farmer who carries crop insurance and fire and tornado insurance on his barns and other farm buildings used exclusively in connection with his business should deduct the premium paid on such insurance as a business expense.

The best ax I ever had for splitting wood had a rather blunt edge. It was an ax that had been worn down quite close on the bit. An ax of this kind will do better service than will one with a thin bit, which is apt to stick in the wood and require strength to pull it out. *E. L. V.*

Set aside one evening a week to clean up your letter-writing. Of course, some business letters require an immediate answer, and should have it; but friendly letters may be taken up on this regular night and bring a sense of satisfaction as a good job done.

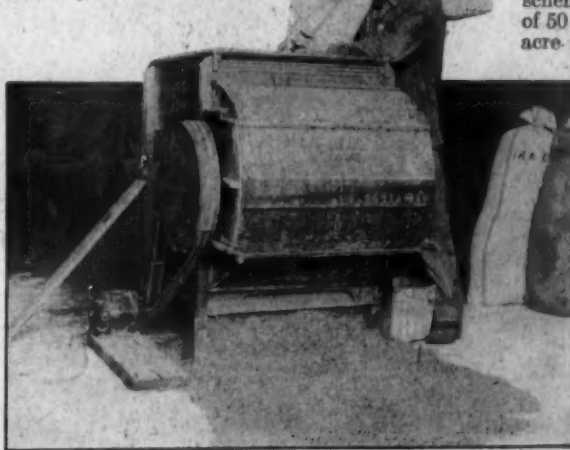
Denton wheat is a new find of the Texas station. The new variety has averaged three bushels per acre more than other strains and varieties of winter wheat tested at the Denton station since 1923, and it has shown an average test weight of slightly more than 60 pounds per bushel.

It is a mistake to cut ice blocks too large. When ice is thick we are apt to overdo this matter and get cakes that weigh more than the average man should try to handle. We cut them a foot each way, and they are heavy enough. Blocks of that size pack well and last long.

The owner of a vibrating-type battery-charger had trouble keeping his battery fully charged because his charger did not seem to charge at as high a rate as it should. In trying to locate the trouble, he noticed that the connecting wires from the charger to the battery were exceptionally long, and got very hot when the charging was going on. He concluded, therefore, that there was too much resistance in the wires, so he made them as short as possible, and used heavier wire that had less resistance. This had the desired effect, for it increased the charging rate and there was no further trouble. *G. S.*

An empty silo fills no milk-pails. If you have shock fodder in the field, you can use it to fill the silo, adding water at the blower. Shock fodder makes right good silage.

Pole wood cut from forest or pasture makes good fuel, but some slab wood is needed to go with it. Small wood alone may prove to be a source of vexation and delay to the busy housewife.



Ira Eby, Indiana, fights weeds by cleaning seed grain

Don't dope your battery. Only recently the National Better Business Bureau exposed fraudulent claims of two concerns selling a substance supposed to lengthen the life of storage-batteries, keep them always fully charged, prevent their freezing or overcharging, etc. Nothing to these claims. Electrical engineers insist that batteries can not be doped or tricked into better performance. Care for your batteries as recommended by the battery makers. That's the best treatment you can give them.

To control weeds, the first rule is: Plant clean seed. Often that is the only rule necessary. If you are using home-grown small grain, run it through a fanning-mill to clean out chaff and weed seeds. 'Twill pay. The Farm Journal says so.

Sweet clover improves corn. H. H. Bennett, of Bellevue, Nebr., used to get only about 30 bushels to the acre on old ground, but since he began to use sweet clover in the rotation scheme he is rewarded with a harvest of 50 bushels or more of corn to the acre. *G. R. H.*

Ever hear of hulling sweet-clover seed with a feed-grinder? Then listen: Paulsen Brothers, Thurston county, Nebr., have been growing Hubam, the annual sweet clover, for three or four years. The boys cut the sweet clover with a binder, run it through the threshing-machine and then through the feed-grinder. The burrs of the feed grinder are set so that the hulls are removed and a good job of hulling is done. Then the fanning-mill is brought into play and the clover seed is fanned, leaving an excellent quality of seed. Anybody else tried

Hubam, either with or without small grain? What do you think of it?

"Rammed Earth Walls for Buildings," *Farmers' Bulletin 1500*, free from your Senator or Representative in Congress, or from Department of Agriculture, Washington, D. C. Those who have written the Editor about bulletins on this subject should write for a copy (foregoing address) before the bulletins are all gone. The bulletin tells how to make the buildings.

If you live where fence posts don't grow, you ought to talk your neighbors into buying posts in carload lots. Your dealer will make you a nice price on a carload. Each one could haul right from the car and save the dealer the cost of unloading. Another way out—make cement posts during slack season. Do the work in the barn, or in a sheltered location, if there is danger of freezing.

A farmer can be as happy as any one, if he hath a disposition for it. This season affords him a fine chance to enjoy life in the society of his friends and neighbors—but good economy must never be forgotten. Lay in a stock of firewood, while the sledging holds good. Attend to breaking paths, and suffer no charge of niggardness to be thrown out against you by your neighbors. Look often to your granaries, lest rats and mice rob you of your hard-earned possessions.—*Old Farmers' Almanac, 1814.*



The County Agent Says—Raymond Rosson

Eggs are money this month. Make the hens lay. Treat 'em right and feed 'em right and they can't help themselves.

If a traveling salesman comes along and offers you a remedy for contagious abortion of cattle, ask him how much it is, then take the family to a movie on the money.

Three hours' work in cold weather with a fanning-mill will save no end of work killing weeds in hot weather, with scythe, mower, cultivator, hoe and what not. Fan the weed seeds out of the grain now and save a lot of fanning next summer.

Don't spend all your time now gadding about to farm sales and then have to leave your haying next summer to saw wood for dinner.

A poor farmer can't get along with good hired men, and a good farmer can't get along with poor hired men. The good hired man has a job on a good farmer's farm.

The farmer who saws his wood in May or puts battens on his barn in April will never make "A Good Living and 10%."

Every shiver of a cold cow shakes a cent off the milk check.



You can fight fires *Before they start!*

FIRE-FIGHTING is of first importance on America's farms. Fires are costing the American Farmer more than \$150,000,000.00 every year. The two greatest fire hazards to the farmer are sparks on roof and lightning. With Sheet Steel roofs, you can protect your buildings from both hazards. A Sheet Steel roof, when it has been properly grounded will completely eliminate the danger of lightning. An extensive investigation among insurance and other authorities failed to uncover a single instance of fire resulting from lightning where a sheet steel roof has been properly grounded.

Sparks Become Harmless

Sparks are harmless when they fall on a sheet steel roof. Time and again sheet steel roofs have protected farm buildings from the flames of adjoining structures.

What is more, Sheet Steel roofs confine fires when a building burns. There are no blazing fragments to broadcast the flames. Even when the structure collapses the Sheet Steel roof blankets the fire.

Insurance Cost Reduced

The value of Sheet Steel Roofs in reducing fire losses is shown in the record of New Braunfels, Texas. In 1895, Sheet Steel roofs were adopted there as standard, and the insurance base rate has decreased from 64 to 15 cents. And in 1925 losses were only \$2800.00 against \$46,000.00 premiums.



This trade-mark stenciled on galvanized Sheet Steel is definite insurance to the buyer that every sheet so branded is of prime quality—full weight for the gauge stamped on the sheet—never less than 28 gauge—and that the galvanizing is of the full weight and quality established by the SHEET STEEL TRADE EXTENSION COMMITTEE specification.

Build Your Buildings of Steel

The roof is just one place where Sheet Steel is used to fight fires before they start. Plaster walls on Metal Laths made of Sheet Steel take one hour fire rating as compared with four minutes on ordinary construction. You can make your entire home fireproof with Sheet Steel—doors, trim, windows, framing, walls and roof. Garages, corn cribs, machinery sheds, barns and other buildings should be of Sheet Steel on steel frame-work.

Farmers interested in reducing fire waste have found that it pays to investigate the fire-resistance of Sheet Steel construction and equipment. For information regarding Sheet Steel uses on the farm, address the SHEET STEEL TRADE EXTENSION COMMITTEE, OLIVER BUILDING, PITTSBURGH, PENNSYLVANIA.

SHEET STEEL

FOR SERVICE

THE

FARM JOURNAL

DEVOTED TO THE FARM, ORCHARD, GARDEN, POULTRY AND HOUSEHOLD ECONOMY

January, 1927

Trade-mark Registered, 1905; Renewed, 1925. Copyright, 1926, by Wilmer Atkinson Company

Practical Not Fancy Farming

50th Year

Swear Off! Swear Off!—By Walt Mason



IF you're inclined to run in debt, and if you oftentimes forget a clean slate is the one best bet, swear off, my friend, swear off. If you're inclined to scold the frau, and wear at home a gloomy brow, this is the time to frame a vow—swear off, old scout, swear off. If you're inclined to tell old tales, on hearing which the victim pales, and utters low, heartbroken wails, swear off, swear off, swear off. If you're inclined to take the time, by spiling prose or quoting rhyme, of men who strive to earn a dime, swear off—at once—swear off. If you're inclined to be a bore, to loaf in office, shop or store, until the manager gets sore, you can't too soon swear off. If you're inclined to make the race whenever there's a vacant place, in politics, oh, cease the chase! Swear off, sad heart, swear off. Have you into your faults inquired? Is there no change to be desired? Do you make other people tired? If so, swear off, swear off.

High Farming at Elmwood—Tim Webb

DEAR Mr. Editor: If you have any influence with the so-called statesmen who compose the Congress of the United States of America, I wish you would get them to straighten out this radio tangle at this session.

I remember reading in the paper last spring that there was some kind of a row about it, and that Congress was likely to adjourn without settling whether the Secretary of Commerce was to run radio broadcasting, or who, or nobody. I paid no

attention at the time, because the broadcasting seemed all right to me.

Lately, however, the business has begun to look very different to me. In the first place, we listen in ten times as much at this time of year. And in the second place, we are bothered a lot by all kinds of interference. The five-tube set is pretty good in selecting stations, but there are at least six or seven places on the dials where we get a steady whistle or squeal, which I understand means interference between two stations on the same wave-length.

That is one thing, and the other is the way some stations are blanketing all the rest. Two of our nearest stations have just put in new equipment; one is twice as strong as before, and the other is five times as strong. You can imagine what that does to stations near the same wave-length.

By the way, my brother Jacob wrote me that he has listened several times to your radio advertising from the May station in Iowa. I have tried several times to get this station, but it is so near the wave-length of WJZ, which is nearly always on the air, and very loud, that I have had no luck. However, I listen with pleasure to Mr. Shoffner from WFI, and once or twice have picked up Mr. Rummel from KYW in Chicago.

Well, that is enough about radio. Maybe it is too much. When I get interested in talking about the stations we pick up, and so on, I find I sometimes talk longer than the other party wants to listen.

Once more we are "dug in" at Elmwood for the winter. All my potatoes are sold, and everything else is sold that we have for sale. It has been a fair year, though of course nothing like 1925, with the clean-up I made on potatoes a year ago.

The milk price is pretty good, and several years' work I have put in on our chickens is bearing fruit this winter in a very good run of eggs for this time of year. The trouble with eggs is that I have no good outlet for them. I turn them over to a neighbor named Benson, who trucks some

stuff to the city three times a week and sells it direct to homes in the suburbs. Benson says he met a woman the other day who kicked because his fresh-laid eggs were 76 cents, when she could get eggs at the chain stores around 60 cents. She said she liked store eggs better anyway—the flavor was better. Can you beat that?

Benson said to her why did she buy his eggs, then, and she said she had to, because store eggs didn't beat up as well for cakes.

Well, all that is not very important, Mr. Editor, but we got a good laugh out of it, and maybe some of your readers will, too.

I hope you will all have a happy and prosperous New Year for 1927. T. Webb.

It looks as if Peter Tumbledown's house would all go into his own kitchen stove, eventually. The other day Peter tied the colt to a post of the back porch, the colt gave a jump, and down came the post and most of the porch roof. Peter prides himself on always looking on the bright side. "There's plenty of kindling, right where my wife needs it," he says.

Another Message to Congress





The Pictures Talk

By C. F. Stevens

THE "TALKING MOVIE" is here at last! It is already ancient history to the theater and movie hangers-on in the big cities, though most of them have never had even a peek at the new device.

It is ancient history, too, to the scientists who have been working for 25 years or more on this very thing. Time and again the talking movie has been announced and demonstrated, only to prove another flat failure. Either the timing was lacking, or the voices and music were harsh and unnatural, or something else was hopelessly wrong. But now—

It was just a few weeks ago that Warner Brothers, movie producers, gave the first public showing of the Vitaphone, in conjunction with a new John Barrymore film, "Don Juan," at their Broadway theater in New York.

It Was a Knock-Out

A flash on the screen, and Will Hays, the "boss" of the movies, advanced and delivered an introductory speech. The audience was amazed at his lip movements and gestures were faithfully accompanied by his voice.

Then the musical program began with the overture from "Tannhäuser" played by the New York Philharmonic Orchestra, conducted by Henry Hadley. The film showed the ensemble playing, and as certain instruments carried the theme, "close-ups" of those players were shown. Finished, the orchestra and Dr. Hadley rose and amid the applause of the audience, bowed.

Following, Mischa Elman played Dvorak's "Humoresque"; Roy Smeck produced jazz on guitar, ukulele and banjo; Marion Talley, Metropolitan Opera star from Kansas, sang "Caro Nome" from "Rigoletto"; then came Zimbalist, violinist, and Harold Bauer, pianist, with variations from the "Kreutzer Sonata"; Martinelli singing "Vesti la Giubba" from "Pagliacci," accompanied by the great Philharmonic Orchestra; and finally, Anna Case, supported by the Cansinos and the Metropolitan Opera chorus in "La Fiesta."

By this time the audience, no mean critics and sophisticates in entertainment, had passed from amazement to enthusiasm.

Let me pause here to disclaim any press-agent blare of trumpets for the Vitaphone Corporation, Warner Brothers, or any of the commercial interests back of the Vitaphone. These competent business houses are well able to look after their own publicity.

But it is an achievement to fire the enthusiasm of any one interested in good entertainment and good art for the mass of our people. It is of peculiar interest to readers of The Farm Journal, because it is the smaller cities and the country towns that are going to be the real beneficiaries of the new movie; just as they were the ones most benefited when the original movies, the phonograph, and the radio blinked and opened their infant eyes.

A Marvel of Timing

In the filming of these voice-pictures, the sound-recording and filming devices are mechanically timed together, or "synchronized." In the presentation of the dual program later, the combined devices, still geared together to the thousandth of a second, reproduce the double bill of fare through the medium of special loud-speakers in the theaters. The voice and music reproduction is really

beautiful and satisfying, free of mechanical scratchings and noises. One must pinch one's self to be assured that the singer, speaker or orchestra is in truth a picture, not in person.

An actor speaks on the film, or Marion Talley sings, and presto! you hear the voice in perfect harmony with the lip movement or appropriate action. The famous symphony orchestra plays, and lo! as the fiddle bows move on the screen you hear the note all well-behaved fiddles sound with bows in like position.

I hope I can make you realize the tremendous difference this is going to make to dwellers on the farms and in the small towns. It means that the thousands of our small centers will both hear and see, in the same performance, the great actors and actresses, operatic stars and prima donnas of the Metropolitan; the superb symphony orchestras of Boston,



John Barrymore and Mary Astor in "Don Juan," the first of the new "talking" pictures

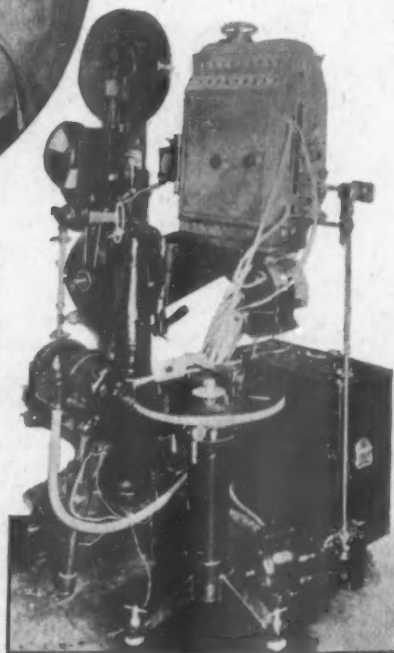
New York, Chicago, Philadelphia, London, Paris, Berlin. What has heretofore been at the command of only the select few metropolises (or is it "metropoli"?), of the world, will be at the command of every theater in the land. What Broadway or The Place de l'Opera sees and hears, Macon, Ga., Cimmaron, Kans., Ypsilanti, Mich., Swampscott, Mass., and Wenatchee, Wash., will see and hear in exactly the same renditions, about the same time, and probably at much less cost.

For the first year or so, we shall have these celebrities exhibited as adjuncts to a feature film little different from the films we know now. But the logical progress is in the direction of complete spoken and filmed plays, operas, musical comedies and such. It must come soon.

Then let us rejoice, friends, for it means at the very least, a complete clean-up and reorganization of that rather sad business, the low-grade movie. Who will want to see the rubbish and drivel handed out by the famous star, Miss Nobody, directed by Mr. Nobody, art effects by Mr. Never-heard-of-him, sub-titles by Half-wit, produced by Dumbell and Worse, Inc.—when the great plays, the successful comedies, the operas, even the great spectacles like the musical shows, if you like, are showing just across the street?

When playwrights like O'Neill, Guitry, Shaw, Hardy and Schnitzler write plays and scenarios and have them performed as written by folks like Le Gallienne, Arliss, Barrymore, or a Coquelin, what becomes of poor little Max Zilsh, whose idea of pathos is "And with the Morning"; tragedy, "Unhand that Gal!"; and comedy, "So's Your Old Man!"?

It will be back to the cloak-and-suit business for Max. And a good thing, too.



The reproducing machinery of the "talking movie." The picture projector is about the same as is now generally in use; in the center is the disk record from which the electrical reproduction of voice and music is made



And this is Syd Chaplin in "The Better Ole," very amusing Vitaphone picture that followed "Don Juan"

The Corn-Borer Is Loose!

By
Harry R. O'Brien

STEADILY and relentlessly, the dreaded European corn-borer is flying and eating its way toward the heart of the Corn Belt. When farmers planted their 1926 crop of corn, the borer was 50 miles east of the Indiana line and 175 miles from Illinois. As they harvested and shucked this same crop, the news was carried to them late in October that borers had been found nearly 50 miles farther west.

The borer advanced about 50 miles in a number of places last summer, over and through a wide-flung battle front, 650 miles long, set up against it. The pest paid no attention to quarantine stations on all the leading highways.

To recount the details of this jump: The borer went through the remaining two western tiers of counties in Ohio and infiltrated itself into several counties of Northeastern Indiana. Scouts found it in Michigan as far west as Kalamazoo—which is only a county and a half from Lake Michigan. Southward and eastward in New York and Pennsylvania and Eastern Ohio it pushed its frontier line. In all, more than 450 additional townships were found infested, by 150 scouts hunting for it in these five states.

Anybody knows that rivers pick up corn-stalks and cobs and carry them long distances. Tests made in Ohio last spring by corn-borer investigators show they go hundreds of miles. The borer is now over the watershed of the Ohio and its tributaries at four different places at least, from the headwaters of the Ohio to the banks of the Wabash in Indiana.

These rivers may help spread the borer long distances farther than they would go otherwise. Also, they may carry the borers south to the cotton and sugar-cane fields. Entomologists don't say that cotton will be attacked, but they know that borers have attacked it abroad and in tests in New England. It also thrives on grain sorghums, so it is a menace to sugar-cane, kafir, feterita and Sudan grass. It is known to attack more than 200 economic crops as well as weeds. Fortunately, so far, except in New England, it has been found only in corn and a few weeds in the Middle West.

Thirty Borers in One Stalk

I stood in a corn-field in Essex county, Ont., one day last September and watched an Ontario farmer cut off a stalk of corn with his jack-knife and split it open. We gathered round and one of us caught the borers on a piece of paper. There were more than 30 in that stalk.

"You fellows in the United States might just as well make up your minds right now that before long you can't grow corn," said this farmer. "We can't grow it any more up here. There won't be 10 per cent of a crop planted next year in Essex and Kent counties. It caught us unprepared. You fellows must go ahead and get ready to grow crops that will take the place of corn and be ready."

Sounds like heresy or treason to King Corn. But say, did you ever see a field of corn that had been completely riddled by the corn-borer?

That same day our party stopped and went into the five-acre field of another farmer who lives near the Kent-Essex county line. Every stalk we examined in that field had borers in it—anywhere from 14 up to 46, by count. At least 95 per cent

of the ears had borers, too.

Just imagine stalks and ears filled with a mass of wiggling borers; stalks honey-combed and chiseled out, falling over, many so rotten that they seemed as if they had been pulled from a manure pile. Not a single good ear of corn was to be found in the field—not one. I pulled up a weed, split it open, and that too, was filled with borers. The field looked as if it had been hogged off.

There were hundreds of fields like that in Southern Ontario last fall—and I saw them, too, in the fall of 1925. Many miles of such—ruin and devastation—after only six years of the borer; and farmers are stoically planning to grow something else—sugar-beets, vineyards, alfalfa and whatever else is possible—and give up corn. Already the corn-fed hog is becoming a tradition there.

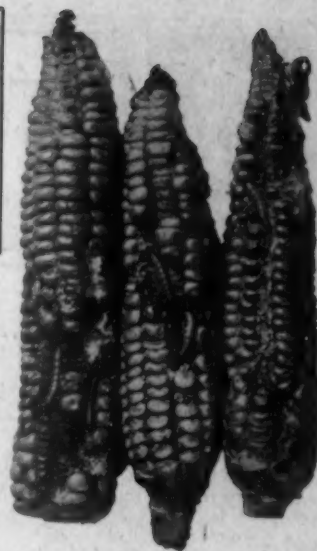
In sections of Northern Ohio, there were fields with almost 100 per cent infestation last summer. For the first time there was commercial loss. In Michigan, farmers who brought sweet corn to town had it turned back. Only a year or two more and these regions may face devastation like that in Ontario.

The Borer in Europe

I saw these things when on September 23-25 last, scientists, state officials and others interested were summoned to an international corn-borer conference at the call of Dean C. F. Curtiss of Iowa State College, chairman of the corn-borer committee selected last year at a similar gathering. After the infested fields of Ohio, Michigan and Ontario were visited, a day was spent at Detroit in summing up what had been seen and in providing for a continuation of the fight against the borer.

We learned that the United States Department of Agriculture has a station in Europe where the borer is being studied in its native haunts—in Germany, France and the plains of Hungary—and where about a dozen parasites have been collected, sent to America and turned loose to work on the borers. Two in particular are being relied on—but it will be years before there are enough of them to make any headway in checking the borers, and then it will be uncertain.

Quarantine lines are being maintained by the federal Government, in co-operation with states, as was explained to the con-



Ears damaged by corn-borer



Corn broken down as result of injury by European corn-borer



Burning corn-stalks to check the borer



Guards prevent passage of corn through quarantine

ference by L. H. Worthley, corn-borer administrator for the United States Department of Agriculture. Some 250 guards were stationed on main highways last summer. Ten quarantine lines in Pennsylvania stopped 319,000 ears during the summer and confiscated 4,000 dozen ears of corn. At 90 stations in Ohio and Michigan, 1,504,000 ears were stopped and 7,546 dozen ears were taken out of them. Many of these ears had borers in them.

Quarantine lines may stop the carrying of the borer by human agency. But what good are guards along a roadside against untold numbers of tiny moths that fly at dusk and are carried on prevailing winds for ten or twenty miles or more?

The borer, which hatches from the eggs of the moth, begins his work near the top of the stalk and as

(Continued on page 24)



The Three-Story Garden

By A. B. Ross

CONSIDER, not the lily, but the weed patch; the nuisance along the road and in the corners. It is always healthy, always growing, crop succeeding crop, and all thriving, all seeding.

Like a blinding light it came to me one day that what was happening in a particularly vigorous five-foot-high weed patch at the back of my garden was intended as a revelation to stupid mortals of what a real, honest-to-goodness garden should be. Not a place in which to pretend that we enjoy working through the sultry days of July and August, but a place in which the real work is done in the spring and fall; a place in which that weed-patch scheme would run wild during the hot growing-weather, and supplemented only with the minimum of our own toil during the pleasanter days; a place where all the hot-weather work would be plucking the crops and taking them to the house for the delight of the family.

Before that lesson of the weed patch, I thought I had been gardening intensively. In 1917, after this country entered the World War, the United States Food Administration, in an effort to increase production of garden stuff, called for the best plans for cropping from all over the United States. The best plans we got were for 1.44 crops a year, not quite a crop and a half a year, based on standard planting. I had been averaging better than that. And with the sudden impetus given to gardening, and the knowledge that garden plans were hopelessly behind what they should be, I put in my spare time tightening up what I supposed to be a real system.

Four or Five Crops a Year

My system of intercropping—I call it Three-Story Gardening—gives between four and five crops a year, based on the standard rules for spacing given in the garden books. That is to say: By putting in prior crops and follow crops and intercrops, and figuring on the square-foot basis of standard planting, the Three-Story System gives nearly five crops a year, as compared with that

"best" record of 1.44 crops offered the Food Administration in order to "Win the War" in the trying days of 1917.

In 1920 and 1921 the Three Story System was tried in our local community gardens, each of the gardens being about one-ninth of an acre. There were 31 of us, with 30 active

A. B. Ross's "Three-Story Garden" system is more revolutionary than anything he has ever written about fertilizers. It flies in the face of all the rules of gardening.

While this system of vegetable-growing is a boon to back-lot gardeners and suburbanites with little space, it is equally adaptable to the average farm. Not only can three or four times as much stuff be raised from a small area of ground, but the system requires much less time and labor, no watering, and no manure.

We thank Minton, Balch & Company, of New York, for permission to use material from Mr. Ross's book, "Big Crops from Little Gardens."

The second part of this article will appear in an early issue.

critics or doubting Thomases. That's always the way when some one undertakes to do what has never been done, and what, therefore, can't be done.

But while the 30 neighbors were cultivating their three-foot strips of bare ground between rows in the sultry days of July and August, in order to save moisture, I was inspecting their gardens, smoking my pipe and generally enjoying life. My garden didn't need cultivation; it couldn't be cultivated. The foliage was so dense that the whole surface was protected from the sun's rays by it. And what water evaporated from my garden was evaporating through the plants. No dust mulch

was needed and cultivation was, therefore, cut down to almost nothing.

When the frost struck hard and the other gardens tumbled down in stricken ruins, I cut out the few remaining corn-stalks, took down the Lima-bean and tomato poles, took out a bit of other rubbish, and opened up to view a perfect frost-resistant garden—not a hole, a dent, nor a bare spot in it—the only green spot left in that whole four acres except a few patches of winter cabbage and some forlorn, deserted-looking rows of turnips.

I daresay all this sounds too good to be true. But it is true. The Three-Story Garden principle rests on this simple fact: Some plants do not need so much sunshine as others. Furthermore, some plants do not cast so much shadow as others. And finally, some plants use more root-room than others. Cucumbers, radishes, lettuce, turnips and the like are the ground-floor crops. Lima beans (third-story crop) do not make enough shade to hurt the ground-floor crops. Shade from corn is negligible until about the middle of June.

Maincrops and Intercrops

Let me give a quick outline of the actual plantings. The garden is laid out in rows which, for convenience, I call maincrop and intercrop rows. This lays the plan out in rows 18 inches apart, but in two sets which are three feet apart.

The maincrop rows are the corn rows. They are used for a succession of plantings of Golden Bantam corn, the first planting early in April and the last about July 25. These rows are also used for prior crops, crops between the hills in the corn rows, and crops following the early plantings of corn.

The principal crops in the intercrop rows are peas, Lima beans (and pole string-beans, if desired) and tomatoes. The intercrop rows have no prior crop, but after the peas are done a crop follows them, using up all the space between the pole beans and the staked tomatoes.

During the season the whole garden is planted to peas. The whole garden is planted to corn (in successive plantings), and through the garden are distributed the largest possible quantities of pole Limas, and tomato vines tied to stakes and made to do their bearing in the second story.

The peas are planted in successions: from early April to May 15. Only the best selected dwarf varieties are used, having due regard to high quality and yield. I plant no round-seeded peas—none but the sweeter and finer wrinkled sorts. Planting after May [Continued on page 28]



Waste space in the garden of a neighbor who thinks I plant too close. This strip will now raise weeds



Above, one crop has been removed in the center and celery is coming on



At the right, the arrows show how closely pole Limas can crowd the young corn without shading it; 2 p. m., August 8



Your New Furniture

The fad for presenting the home with a piece of furniture or other equipment at Christmas-time is a delightful one. Those who were ignorant of the fad might make up for seeming negligence by taking advantage of the mid-winter furniture sales.



Early American in spirit, this serving-table, matching the buffet below, could be used elsewhere in the home

THE young people who start out with a completely furnished home miss the joy of saving and planning for the purchase of new things from time to time, for there is a very decided feeling of satisfaction in acquiring something for which one has longed. Choice or necessity may be responsible for starting out with nothing more than the absolutely necessary things, but if these are chosen with care they will fit in with further additions. The determination to have one's furniture good in design, well made, and of good materials, will insure satisfaction.

The pieces illustrated were chosen for line, style and construction, and are right in every case. They might be called "heirloom" pieces, for they will fit in so well with whatever possessions one may already have or acquire later that they are not likely to be discarded.

Some of the examples shown are either reproductions of or were inspired by early American furnishings, than which there is no more popular style today. Undoubtedly designers have been influenced by the collection shown in the American Wing in the Metropolitan Museum of New York, a collection for which we as a nation should be grateful.

The chair above combines dignity and comfort and would fit in almost anywhere. Carefully upholstered in tapestry, the exposed frame and the Queen Anne legs are in mahogany finish.

There is no doubt but that "spool" beds are early American, but they were usually very simple in type. Spool decorations on bureaus were more rare, but modern designers are using this motif in order to produce matched sets. The bureau shown below has five-ply mahogany veneer top and drawer fronts, with three-ply ends; other parts are made of selected gumwood.

[Continued on page 72]



Buffet and table, built on simple but dignified lines, have tops and fronts of five-ply mahogany; other parts are solid mahogany. Handles are in antique brass; the drawers are dust-proof

A piece of painted furniture brightens a dull room. The bookcase at the right comes in combinations of red and black, green and parchment, and black and green, and is 66½ inches high, 17 inches wide and 9 inches deep



The hinged supports which hold up the leaves of a "butterfly" table are shaped like butterfly's wings, hence the name. The one above can be had with base of solid mahogany and top of Hungarian ash, or plain maple base and curly maple top



The Colonial cupboard (above) is made of solid maple and can be purchased finished or unfinished (for painting) and with open shelves or glass doors. Five shelves (in cupboard and cabinet), provide ample storage room for books, china or other matters

A comfortable and roomy desk is conducive to letter-writing and keeping up of stationery supplies. The desk at the right is made of mahogany veneer and selected gumwood, and is supplied with three good drawers and a convenient array of pigeon-holes



Photographs courtesy of J. B. Van Siver Co.



HOW IT LOOKS TO THE EDITOR

January
1927

How Paid—If They Are Paid

IT can not be too often repeated that international debts can not be paid in "money." In all the endless debate over the war debts, keep this point in mind.

The debts owing the United States will never be paid in "money." They must be paid by turning over to us (1) gold; or (2) land; or (3) merchandise and commodities; or (4) personal service of some kind.

In practise, the debts will be paid—if they are paid—in merchandise and services, since the European countries do not have enough gold, and we won't take land.

They Do Not Like the "Straw Vote"

WE have increasing evidence that our Straw Vote on the McNary-Haugen plan and reduction of the tariff (the latest figures on which are given on the opposite page) is not popular among the professional promoters of these two measures.

This is regrettable, but not surprising.

Whatever leverage the McNary-Haugen forces have had on Congress has proceeded not so much from the inherent soundness and workability of the plan, as from the impression that the measure was backed by the united voice of farmers, whose business was on its last legs.

The Straw Vote figures strike at the very foundation of this myth. How can Mr. FRANK MURPHY, Mr. CHESTER DAVIS, Mr. WILLIAM SETTLE, and the rest, claim to be the authorized mouthpieces of all agriculture, when 82 per cent of the farmers interviewed in Indiana, 78 per cent in Wisconsin, 79 per cent in Nebraska, 82 per cent in Ohio, to go no further, declare they are opposed to the McNary-Haugen principle?

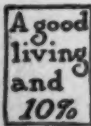
We recommend the Indiana figures particularly to the attention of Mr. SETTLE, whose Indiana Farm Bureau, in the course of an intemperate attack on Secretary JARDINE, recently, denounced him for his alleged "broken promises to support farm legislation of a kind determined by farmers." Our italics.

Criticism of The Farm Journal's Straw Vote concerns itself chiefly with the alleged unfairness of the form of the question. In particular, whether the McNary-Haugen "equalization fee" is anything more or less than a "tax," as the Straw Vote calls it. We can readily believe that McNary-Haugen promoters do not want farmers to understand that the essential feature of their plan is its use of the federal taxing power to force every producer of a crop to share in the loss of marketing the surplus.

As to The Farm Journal's own position on this and other related questions, there need be no uncertainty about it.

The Farm Journal believes in better prices for farm products, and "A Good Living and 10%" for every capable farmer.

It believes that artificial boosting of the prices of certain crops, through the McNary-Haugen or any similar plan, would prove a failure ultimately, and meantime would be a gross injustice to the much larger body of equally-deserving farmers who would not share in this government coddling.



It believes that "Equality in Bargaining," if it can be attained, is what is necessary to put farming on a permanently profitable basis.

It believes in the thorough co-operative organization of farmers to sell their products, surpluses and all, as the only practicable way to attain "Equality in Bargaining."

As a platform for 1927, we will stand on that.

Knowledge Makes Better Prices than Guessing

THEY are attacking the government crop reports again. They say that the reports beat down the price of a crop when there happens to be an oversupply, as in the cotton crop.

Of all the nonsense we hear, and we hear a lot of it, this is the worst. Of course prices go down when there is an excessive crop. The distributing trade and the speculators are not in business for their health. If a crop is known to be large, they will beat the price down.

But if there were no government reports, and the size of the crop was known only by private inquiry, prices would go even lower. The speculator takes no chances on bidding too high. If he is not reasonably sure, he offers a price that he knows will protect him; and the grower, who knows even less of the size of the crop, must accept that often ruinous price, or nothing.

We can see how some politicians and some speculators could gain by stopping government crop reports. But how any farmer could be imbecile enough to favor it passes our comprehension.

Be Firm with Yourself

WHAT is the useless thing you save? Nearly everybody has something—string, or bottles, or left-over pieces of material, or

crooked old nails, or something like that.

May we offer a piece of advice? Thank you. Throw 'em out. Sell the stuff if you can, but get rid of it. You think maybe you will need it sometime, but you won't.

Or put it this way: if you are not sure whether to keep it or scrap it, scrap it. You will be right twenty times for every once you are wrong.

It Can't Be Done

THE Supreme Court recently declined to interfere with the "Daylight Saving" law of Massachusetts, which was attacked by several Bay State farm organizations and labor unions.

The fact is, it is hopeless and a waste of time to try to make the big cities give up their Summer Time system, if they want to keep it. Laws can sometimes be passed or repealed. But a law is only a joke where, as in Philadelphia, 2,000,000 people agree privately and unofficially among themselves to move their private and unofficial watches ahead an hour.

Let us abandon the attempt to force our time ideas on the big cities. There are plenty of other things to be fixed, which are both more important and more fixable.



Not so terrifying when he sticks a pin in it

Congress Gets Going Again

By Frederic William Wile

OUR old, time-battered, weather-beaten and irrepressible friend, Farm Relief, bobbed up serenely on Capitol Hill almost the moment Congress assembled on December 6. At this writing, a few days later, there was every promise that it would hold the center of the stage indefinitely, repeating last winter's futile history.

The President's message indicated that the Vermont farm boy is as stubbornly opposed to agricultural "patent medicine" as ever he was. Mr. Coolidge continues to underline intelligent marketing as the goal at which farmers must incessantly aim. He emphasizes almost as much the necessity of reducing acreage.

Nowhere in the Presidential communication to Congress was there the wisp of a suggestion that the Coolidge Administration will consider or condone McNary-Haugenism in any guise.

SENATORS McNary, Watson, Gooding, Capper and other sarch-priests of the "surplus legislation" temple would give a good deal to know how far Dixie Democrats are ready to go in support of their program. With the Cotton South hitched to the Wheat and Corn West, the McNaryites think they might get somewhere.

High politics—stuff of the very deepest kind—is here involved. It has the 1928 Presidential campaign in view. The Democrats are issue-hungry. If they can go to the country two years hence, especially to the farming country, view with alarm what the Republican Administration and Congress failed to do for agriculture, and clamor: "Put us in power, and see what we'll do"—if there is a chance of bringing about such a situation, Southern Democrats think their cue at Washington this winter obviously is to do whatever they can to block Farm Relief legislation. It's a great game!

LIKE lesser mortals must do from time to time, the President and Mrs. Coolidge are house-hunting this winter. The White House must be vacated after March 4 for renovation that will last four or five months. A new roof is the principal work to be done. Whether to live in a rented and furnished house, or camp out again in a hotel, as the chief executive and the First Lady did in their vice-presidential days—that's the question.

Washington contains any number of mansions suitable for the purpose. Several have been offered to Mr. and Mrs. Coolidge rent-free. The owners would find ample compensation in the subsequent privilege of putting up a tablet and saying that the place once served as the temporary White House.

Several Presidents, during their terms of office,

have had to leave the fine old colonial establishment for shorter or longer periods. James Madison had to move out while the White House was undergoing repair following the damage done it by the British Army in 1814.

"TOM" CAMPBELL, of Montana, sometimes called the world's greatest wheat-grower, was a visitor to Washington just before Congress met. He was in conference with "Silent Cal" for several hours. Authorities put it about that the President consulted Campbell freely on the agricultural passages of the impending message to Congress. Campbell is an uncompromising foe of "surplus legislation" on corn-belt lines.

RADIO is going to be a bitter bone of contention during the annual talkfest just inaugurated on Capitol Hill. The outstanding issue is whether Herbert Hoover, Secretary of Commerce, shall be authorized by law to retain control of broadcasting in his executive bailiwick, or whether there shall be a Federal Radio Commission to regulate the wave-lengths and all therewith connected. Rumor says that Hoover would be glad to unload the responsibility.

A bill sponsored by Representative White, Republican, of Maine, wants radio left in the Department of Commerce. A bill fathered by Senator Dill, Democrat, of Washington, proposes a Radio Commission with powers resembling those of the Interstate Commerce Commission. Dill aims some day to establish a "Federal Communications Commission," with wide power over telegraph and telephone, as well as radio, matters.

Latest Straw-Vote Figures

Tariff Reduction Question

Do you favor lowering tariff duties on manufactured goods from foreign countries, even if tariff duties on foreign farm products would also be lowered?

	Yes	No
Minn.	557	1,052
Calif.	132	1,415
Iowa	817	1,098
Indiana	1,393	1,108
Texas	1,160	487
No. Dak.	73	717
Wisconsin	127	900
Missouri	338	704
Nebraska	941	836
Illinois	812	253
Michigan	571	2,335
Ohio	336	1,654
Penna.	760	3,205
New York	214	2,416
Maryland	161	829
Louisiana	266	121
Other states	180	817

Totals 8,838 19,947

McNary-Haugen Question

Would you favor having the Government sell surplus crops in foreign countries, taxing all farmers who raise these crops to cover the loss?

Yes	No
1,170	450
391	861
1,185	749
463	2,091
939	715
719	71
227	794
496	575
371	1,447
835	272
943	2,090
343	1,557
964	2,888
927	1,709
326	605
288	86
392	701

10,979 17,661

Our Folks are now sufficiently informed as to the Straw Vote, its purpose and methods, so that we do not think we need take valuable space to repeat this explanation.

In case of doubt, full details will be found on page 8 of last month's issue, and page 13 of November, 1926.

The figures given above are a summary of about 28,700 votes, received from our representatives and tabulated up to December 1.

On both questions the voting is slightly more favorable than the last published totals. The percentage against reduction of the tariff has fallen from 71.3 per cent to 69.3 per cent; against the McNary-Haugen plan has fallen from 63.1 per cent to 60.2 per cent.

Readers in Mountain, Southern and New England states, which are not being covered by the Straw Vote at present, are invited to vote by mail on these very important questions.

A QUARTER of a billion dollars—\$262,540,000, to be exact—will be available in the form of bank loans, after January 1, 1927, to all ex-service men entitled to adjusted compensation (the bonus). There are 2,883,000 of these. The sum above-mentioned is the amount that the Treasury is obligated to pay out next year, if demanded. Money can only be secured, according to the bonus law, by borrowing on compensation certificates through banks.

The Veterans Bureau is hoping that our World War fighting men won't be tempted to take advantage too freely of the privilege that is about to become theirs. They are advised, rather, to let the annual amounts due them pile up, like life-insurance dividends, in order that the gross amount may be available in case of some real emergency—a reserve for a rainy day.



The Sugarland Contract

By Norrell Gregory

A Six-Part Story—Part III

THE oncoming car halted at the bridge approach, headlights full on them. A man got out, walked around in front of the car and advanced a few steps toward the bridge. With the headlights of the car behind him as they were, neither Bly nor Gandy could make out anything but that he was a big fellow. A smaller man joined him, small beside the first man, the only means of comparison they had. "Where you fellows headed?" The query evidently came from the smaller man, judging from the voice, which was shrill and high-pitched.

"Who wants to know?" demanded Gandy, angered by their apparent indifference to the situation.

The man disregarded the question. "Don't you know," he said, "that there's a five-ton limit on that bridge? Didn't you see the sign over there; or do you know enough to read? Or maybe you can't see. Best thing for you fellows to do," continued the man, "is to back off that bridge and go right back where you came from. If you break that bridge down it'll cost you something."

"Back off!" sneered Gandy; "since you're so good at suggestin', tell us how we're to back off with one wheel through the floor and a separator hooked on behind!"

"I'm not suggestin' anything," came back the curt reply; "I'm tellin' you."

"Tell us somethin' besides fairy tales then!" snarled Gandy. He raised his voice to a shout: "Sol! oh, Sol!"

"Whatta y' want?" came Sol's answer from the darkness behind the car.

"You bring the two by twelves back here and help us git offa this blasted wreck. Hump yourself!"

"**A**RE you fellers pullin' for Sugarland?" This question was undoubtedly from the big man, because the tone was deep and rough.

"We are!" growled Gandy; "if it does you any good to know. Now, what have you got to say about it? Another fairy story?"

"Not by a whole lot!" The answer came almost as a snarl. "But if you want a tip, I'm tellin' you to stay on that side of the bridge."

"Gandy," said Bly in a low tone, "that's Petrie talking. We're in no shape to handle them now. Keep still and let me talk to him. We've got to get off this bridge." Raising his voice he said, "You know we can't back off of this bridge with the separator hooked on. We've got to go ahead and cross and we've got to cross right away. We'll talk to you fellows then; hurry up with the planks, Sol."

Sol appeared, grunting under the weight of two huge planks. Bly doubted whether the newcomers would allow him to cross, and so held himself in readiness, but the strangers did not halt him. Bly jacked up the front wheels and Gandy slipped the planks under them; another pair was secured from the separator and laid ahead of the first pair.

"We'll uncouple from the separator," said Bly, "and if we keep the engine on one pair all the time I believe we can make it. We can take the separator over with the team."

"She's uncoupled," said Gandy; "let her go!"

BLY opened the throttle cautiously and eased the drivers up on the planks, and so alternating the timbers they inched their way across while the bridge shook and trembled threateningly. When they finally got the engine across they found it was growing

day. So absorbed had they become in the task that time sped unnoticed; they had even forgotten that Petrie and his companion were waiting for an accounting. Lum Petrie came bounding up into the cab the instant the engine left the bridge floor and confronted Bly menacingly.

"I want to know what business you have in my territory," he demanded.

"Your territory?" mocked Bly. "When did you buy it?"

"It was willed to him!" taunted Gandy, climbing up also and confronting Petrie. "Who invited you on this engine, buddy?" he demanded.

"I make my own invitations," Petrie said insolently, thrusting out his jaw and facing Gandy.

"You do, do you!" growled Gandy, setting the palm of his big

hand in Petrie's face and catapulting the intruder head over heels down to the roadway. There was a considerable fill in the road there and Petrie did not stop when he hit the ground, but crashed down a 15-foot bank and brought up against a sapling at the bottom. He lay there for an instant, then came to his feet quickly and charged up the bank like a wild man. He reached the roadbed just as Gandy leaped off the engine, with unholy joy gleaming in his face. Bly stepped down, too, remembering the other fellow.

"Come on!" invited Gandy, as big Petrie paused; "come on, you tumblebug! I'll show you how the boar ate the cabbage!"

THE little fellow was the wiser general. He saw Gandy had every advantage and would doubtless knock Petrie clean off the road, set as he was



Petrie did not stop when he hit the ground, but crashed down a 15-foot bank and brought up against a sapling at the bottom

and unbalanced as Petrie was. He sprang between the combatants and spread his arms.

"Hold on, Lum," he said, "hold on a minute. Cool off a little, Lum. Let me handle this."

"Get out of the way!" growled Petrie, although exhibiting no immediate signs of making a rush; "get out of the way, Pip."

"Take it easy, Lum," repeated the man, seeing he had Petrie in hand. "There's other ways of settling some things besides fightin'." He turned to Bly. "Are you fellers actually pullin' into Sugarland to thresh?" he asked. "The reason I want to know," he hastened to add, "is that Lum and I have been threshin' in here for three seasons. We think we've got first bid on the job."

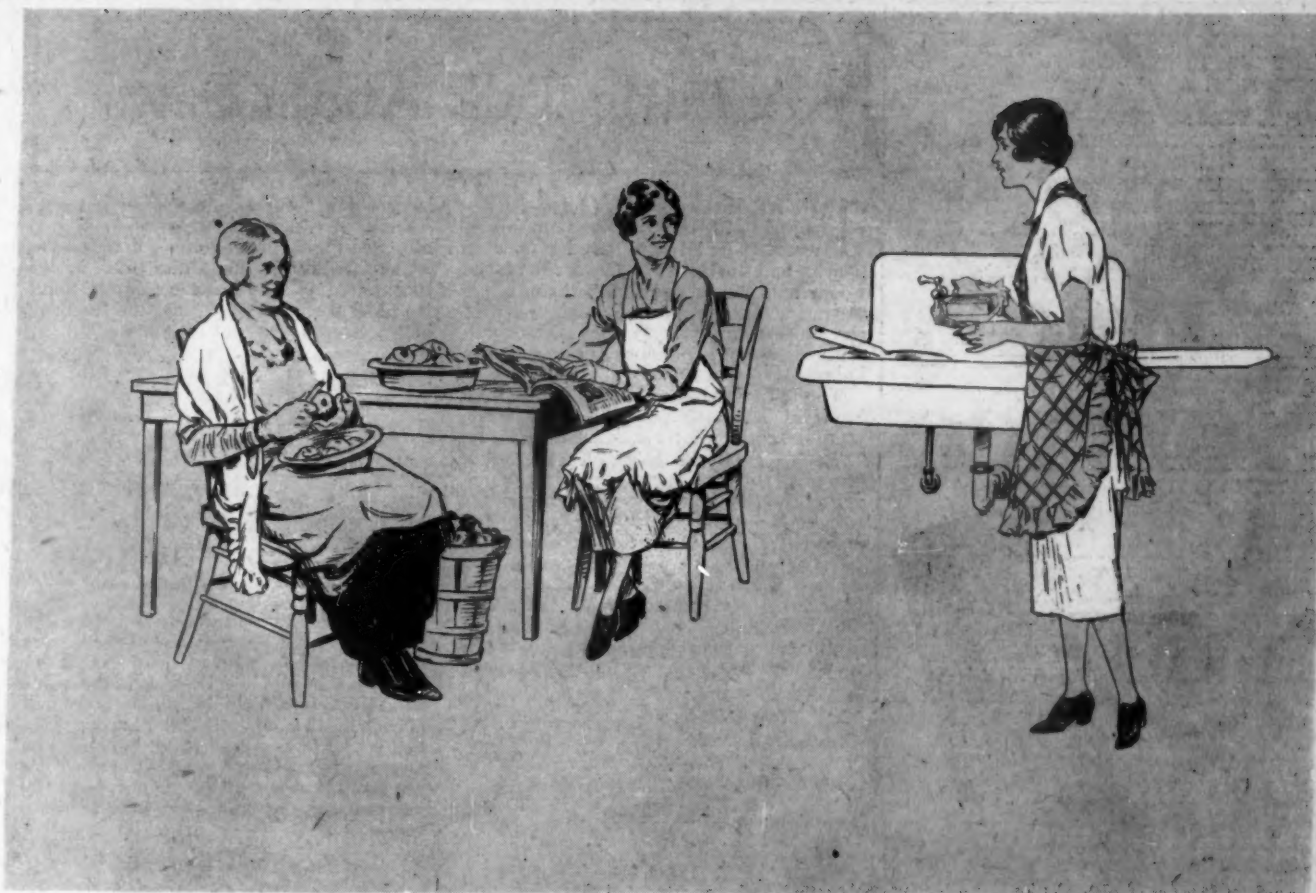
"Thinkin'," put in Gandy, "and havin' is two different things altogether."

"Shut up, Gandy," said Bly roughly; "let me do the talking." He faced the little man. "Do you know Chris Kelso?" he asked.

"Ought to," replied Pip. "One of the biggest farmers in Sugarland."

"He's the fellow," said Bly succinctly, "who told us to come in. If you think you fellows have a cinch on this work up here you'd better see him before you order any newcomers out."

Pip was a wiry fellow with keen, darting eyes. A bundle of nerves, highly charged. Bly sensed at once that he was not nearly so insignificant as he appeared. The ease [Continued on page 70]



Three generations say: *"Nothing can take the place of Fels-Naptha!"*

Mother: (Pointing to Fels-Naptha advertisement in The Farm Journal). "Everything they say here about the extra help of Fels-Naptha is absolutely true. I've tried other soaps at different times—both old and new soaps—but none of them gave me as much real washing help as Fels-Naptha."

Grandmother: "My goodness, dear, you can't tell me anything new about Fels-Naptha! I remember when it first came out—thirty or more years ago. It proved quite a sensation."

"You see, they had found a way to combine good soap with naptha so that these two fine cleaners could work together."

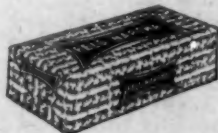
"When I found how really safe and helpful Fels-Naptha was, I began using it for all my cleaning, and I've used it ever since."

Granddaughter: "You and mother are certainly Fels-Naptha boosters. It is wonderful, though, isn't it? I don't know what I would do without it here on the farm, not only for washing clothes but for keeping the dairy things clean and sweet."

Millions of women say that for real downright washing value—for extra help that lightens the everyday cleaning jobs about the house—nothing can take the place of Fels-Naptha.

Fels-Naptha is more than just naptha soap. It is a blending of good soap with plenty of dirt-loosening naptha—two fine cleaners that work together and give you extra help you'd hardly expect from any other soap!

Put Fels-Naptha on your grocery list. Or write Fels & Co., Philadelphia, for a free sample.



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THE GOLDEN BAR WITH THE CLEAN NAPTHA ODOR. ©Fels & Co.

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**Test
your tires
every Friday**

A Little Talk About Saws

THERE are two kinds of hand-saws—the rip-saw and the cross-cut hand-saw. The rip-saw is for sawing boards lengthwise with the grain of the wood, and the cross-cut hand-saw is for sawing across the grain. Each tooth of the rip-saw cuts like a chisel. The teeth of the cross-cut hand-saw cut like so many knives.

The different uses to which the two kinds of saws are put require that the teeth be set differently and filed differently.

The front of each tooth on a rip-saw is straight, and the cutting edge is square across the tooth. Shape of teeth and the way they cut are shown in Fig. 1. The cross-cut is not filed straight across the front of the tooth. The front side of a rip-saw tooth is at right angle to a line connecting the points of all the teeth. The front side of a tooth on a cross-cut is 12° more than a right angle. If the angle were the same as on rip-saws, the

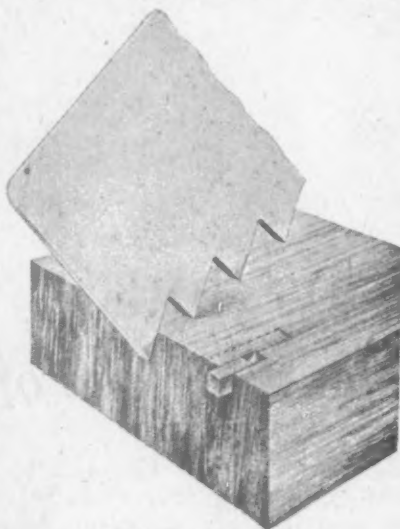


Fig. 1—the rip-saw

saw would "hie off more than it would chew"—the cut would be rough and the saw would work hard. See Fig. 4 for sketch of teeth on cross-cut saw. Fig. 2 shows how the teeth cut into the wood.

Set of the Saw

You will notice that (in Fig. 2) the saw is thicker at the points of the teeth than it is at the back. This is what is known as the set of the saw. The point of each tooth is bent outward, the first, third, fifth, seventh and every odd-numbered tooth being bent to one side, and the even-numbered teeth to the other side. This means that the channel cut of the teeth is wider than the thickness of the saw, and the walls of the cut will not grip the saw and hinder its movement. If you have ever tried to use a saw that had no set in it, you know how hard it was to make the saw go.

An old saw that has been neglected and abused can be put into shape by jointing, setting the teeth and filing. The first operation, jointing, means getting the points of all teeth in line. This operation is done as indicated in Fig. 3, using a file flat on the teeth. A saw that is in bad shape will have some teeth

larger than others, and after jointing, some of the teeth will have no points at all. See Fig. 5. It requires a little care to straighten out a tangle like this. Leave tooth No. 1 as it is; bring No. 2 to a point by filing the front edge only; file the back of No. 3, and the front of No. 4.

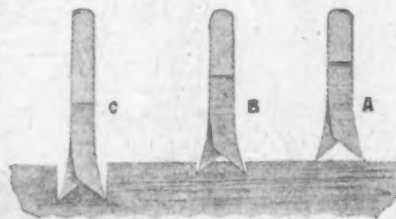


Fig. 2—cross-cut hand-saw

Set is usually put in saws before the teeth are filed—except in abused saws such as the one referred to in Fig. 5. A saw that has all teeth about the same length can be set before filing. Only half of each tooth is set—see the shaded portion in Fig. 4. A saw-set can be bought from any hardware store, and directions for use should come with it. If not, have the hardware dealer show you how to set a tooth.

Files for Filing Saws

Now about files: for 3-, $3\frac{1}{2}$ -, 4-point cross-cut, use 7-inch regular-taper saw-file. For $4\frac{1}{2}$ -, 5-, $5\frac{1}{2}$ -point cross-cut, use 6-inch regular-taper saw-file. For 6-, 7-, 8-, 9-inch cross-cut, use $4\frac{1}{2}$ -inch regular-taper. For 10-, 11-, 12-point cross-cut, use $5\frac{1}{2}$ -inch slim-taper saw-file. For 4-point rip-saw, and coarser, use 6-inch

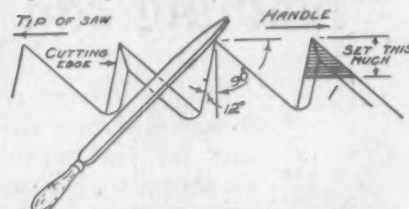


Fig. 4—teeth of cross-cut hand-saw

regular-taper saw-file. For $4\frac{1}{2}$ -, 5-, $5\frac{1}{2}$ -, 6-inch rip-saw, use $4\frac{1}{2}$ -inch regular-taper saw-file.

Fig. 4 shows the position of the file in filing a cross-cut hand-saw. The teeth are, as you will see, drawn larger accordingly than the file. In filing a rip-saw, the file will be carried square across the saw, since the front and back side of each tooth is flat instead of beveled.

The saw, when being filed, can be held best in a saw-clamp, which can be bought from any hardware dealer. Or, the blade can be placed between two strips of $\frac{3}{4}$ x 2-inch lumber and fastened in the work-bench vise. A saw-clamp can be fastened on a post outdoors, where there is more light than there is in the average farm shop. Good light is essential in fixing up saws.

The buck-saw is still another problem. The shape of teeth is shown in Fig. 6. A buck-saw is jointed in the same way as a hand-saw. File buck-saws with 6-inch regular-taper file, with file tipped slightly toward the point of the saw, as in Fig. 6. There should be a slight bevel on the



Fig. 3—jointing a saw

[Continued on page 32]

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ICE-BERGS—towering, ponderous, deadly mountains of ice drift southward from the ice fields of the Arctic into the traffic lane of trans-Atlantic steamers.

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RADIO BATTERIES

A Farmers' Commission Firm

By
H. Frank Rafferty



WE have practically all kinds of co-operatives, but a group of farmers in Gloucester county, N. J., deserves the credit for establishing the pioneer fruit and vegetable commission house. In May, 1924, these farmers organized a stock company, hired a manager and engaged in the business of selling direct to the jobber on the Philadelphia market. The venture has been an outstanding success. The stockholders have profited from their investment. The volume of business increased so rapidly that in April, 1926, it was necessary to rent larger quarters at 112 Dock Street.

The Philadelphia market differs from most of the fruit and vegetable markets in the large cities, because during the summer-time especially, and to a large extent in the winter, it is a nearby market. That

acquainted with the buyers, the personnel of the co-operative and the farmers themselves. I will let some of the stockholders tell their story. Here is what Chas. B. Leonard believes success is due to:

"I will say that the success of our firm is due to three things: able management, backing of the management by all stockholders, and the way our produce has been graded and packed. This firm has put money in the stockholders' jackets by the square way of selling and returning every cent that a man's produce sells for. Also, it has been a large help to farmers shipping to other dealers, inasmuch as they have to return as good prices as we get or have trouble on their hands."

Warren Lentz, another stockholder, says: "I think that the success of the company is that we try to have a wide



Dock Street, Philadelphia, where fruit and vegetables go through the hands of commission merchants. The street is only a few blocks long

is, the bulk of the supplies is trucked or hauled in by farmers. New Jersey, Pennsylvania and the Eastern Shore states—Delaware, Virginia and Maryland—are the principal sources of supply. At the very start, the men on the street placed a wet blanket on the enterprise. They said: "It won't last six months." As one dealer said: "Farmers can succeed in growing fruits and vegetables and in managing grain and livestock-shipping associations, but the produce business is entirely different. One should grow up with it, as there are so many ins and outs in handling these perishable products that it is a trade in itself."

An Experienced Manager

These farmers realized this very fact, and instead of letting it discourage them, they found a way to meet it. They hired F. W. Brown, a man who had been engaged in the produce business for 16 years, to take charge of this co-operative produce house.

The writer has been in daily touch with the Philadelphia market during the past year, and so was able to obtain the general viewpoint of the trade and become

variety of produce put up in a good honest package, and have a good manager."

Sales Reports Daily

There is no doubt that this group of farmers picked a good manager, and he is using up-to-date methods and is honest and upright in all his dealings. Mr. Brown told me of some of their practices which are very much in favor, saying: "Sales are made on a 10 per cent commission basis. We mail out reports of sales for every farmer's produce each evening, so that he knows just what his fruits and vegetables are selling for, and if there is a liberal supply of any commodities, we tell him, often calling him on the phone."

This practice is a benefit to both the shipper and the wholesale house. The shipper can profit by cutting down his shipments until the market is in better shape, thus lightening the supply. This in turn aids the wholesale man; he does not encounter the difficulty of trying to sell a commodity at a fair price when the supplies are very heavy and the demand slow. It tends to distribute the supply evenly, correlating [Continued on page 53]



ED. H. WITTE

I want to Give YOU this new ENGINE BOOK—FREE

NEW WITTE REFINEMENTS —New Low Prices!

I want everyone interested in engines, log saws or pumping outfits to send for my beautiful new catalog today. I want everyone interested in LOWER COSTS FOR FARMING to write me. For I am making a new announcement covering ENGINE refinements as well as new low prices and easy terms. 150,000 Witte engines, 1½ to 30 horse-power are in daily use the world over. 57 years of honest service, first hand knowledge of farm problems, inventive skill, and scientific factory management, has increased the production of WITTE ENGINES to the point where I can pass on great savings to the engine user.

Here is the real all purpose engine with a **Life Time Guarantee**. The engine with fewer parts, so simple and easy to run, that it is practically trouble proof. The engine with many exclusive important features. The engine that makes ALL FARM JOBS cheap and easy. Economical—burns almost any kind of fuel.

The All Fuel All Purpose Witte Engine

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- 1—Medium light-weight, yet so durable that the WITTE is sold on a LIFETIME guarantee.
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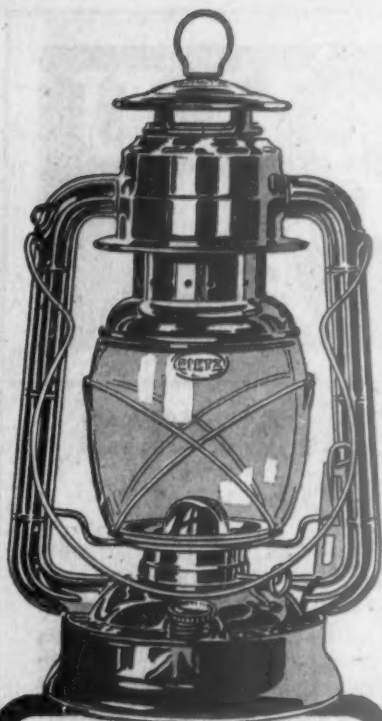
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Swamp Land for Bees

By F. H. Jeter

IN Southeastern North Carolina, lying largely in Brunswick and Columbus counties, is Green Swamp, a region of vast solitude. Green Swamp lies in the shape of a giant hand covering thousands of acres. From its palm reach fingers, or branches, which penetrate up into the higher country, with ridges of tillable land between. On these ridges are good farm land and fertile fields which yield bountifully for the support of those not dependent on the saw-mill. Back in the swamp are great forests of young tupelo-gum and cypress, and lying between the swamp and the higher ground are great masses of gall-berry and huckleberry.

While the bear and the gum, the skunk and the gall-berry, the alligator and the huckleberry are still to be found in Green Swamp, something new—beekeeping—has come to the region. In early spring, the air is fragrant with the perfumed nectar of millions of blossoms, and the



Scott believes in advertising



Bears like honey—that's why the fence

beekeeper has found here a natural home for his insect workers.

ONE of those who have taken advantage of the resources for the successful keeping of bees is R. W. Scott, Jr., of Bolton. R. W. has 65 acres of fertile land.

"In 1919 I began to be interested in bees," says Scott. "I only had six old log hives, but I had been talking with some good beekeepers, and I decided that we lived in a territory that was just bound to be a good beekeeping section. So I bought my first patent hives and then began to increase my bees as rapidly as I could. At times I would buy a few of the log hives from some beekeeper who wanted to sell out, and finally, by 1922, I had 96 fine colonies.

"In 1921, my bees had done well. I cut good yields and sold all the honey I had for an average of 30 cents a pound. In 1922, I fed my bees on some imported honey, and 91 out of the 96 hives became infested with American

foul-brood. C. L. Sams, the extension specialist in beekeeping, helped me get rid of the disease and though I saved every one of the colonies, I got no honey that year.

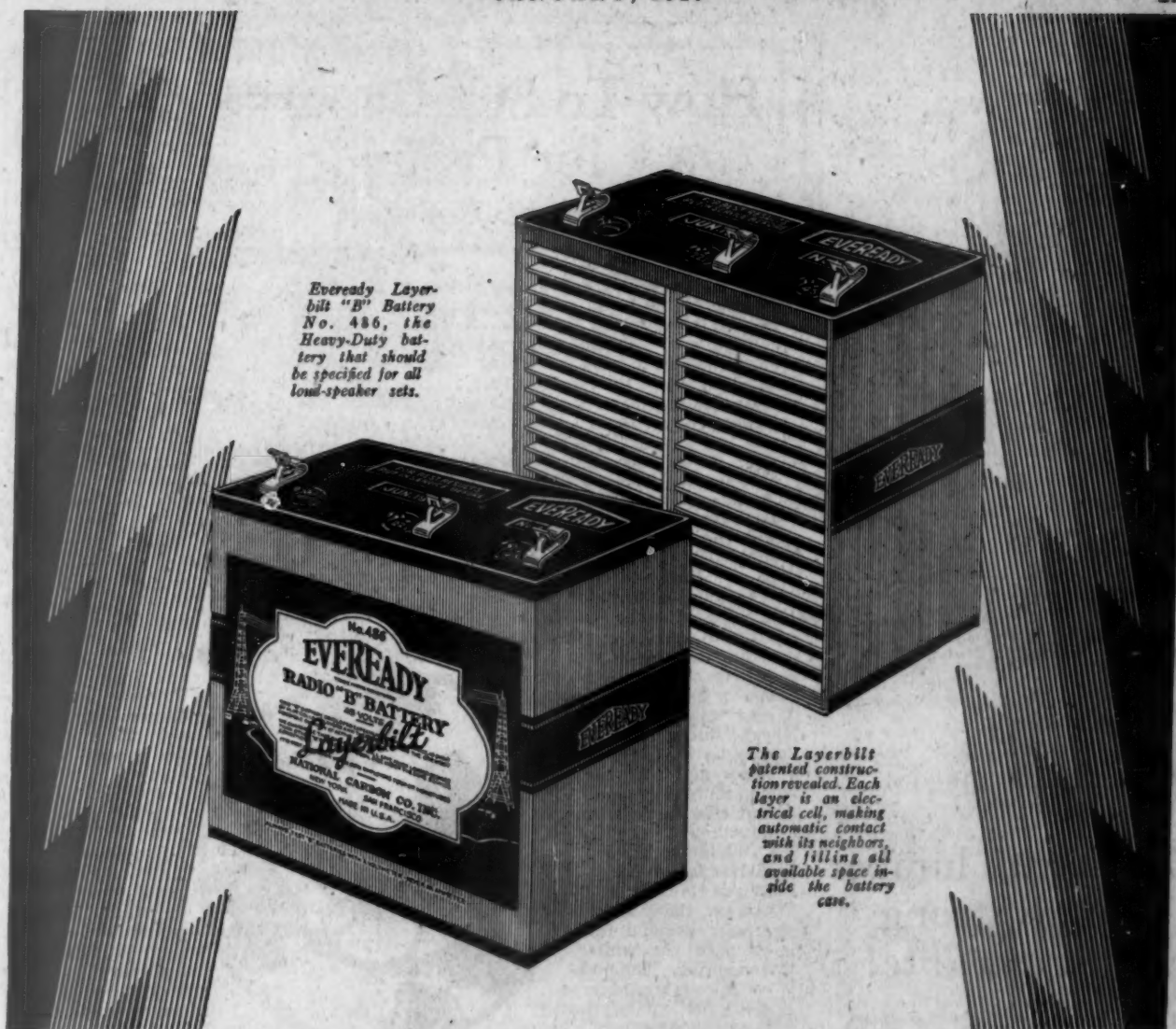
"In 1923, I started to make money, and I don't think any beekeeper in the southeastern states has beaten me on yields. Most of my hives have consistently produced good, heavy yields. I now have about 400 hives in eight different apiaries, and from these 400 colonies I get about as much honey as some men do out of 800. Last year, 38 colonies averaged between 175 and 200 pounds of honey. One hive yielded 310 pounds. With only the 400 colonies, I made about \$4,000 last year."

SCOTT likes to locate his apiaries on the edge of the swamp, to get the benefit of the gall-berries on the high land and the gum in the swamp. These, he states, are the two main honey plants for the spring flow. Some honey is obtained by the bees from the holly and huckleberry, and these two fill in between the other two main plants. In the fall, the bees get nectar from the soybean. This crop is being planted in an increasingly large acreage all over Eastern North Carolina, and produces a good quality of honey. The only objection is that it will candy within 30 days after being extracted.

[Continued on page 63]



Discussing home-made hives



Practical tests have shown this to be the most economical of "B" batteries

IN DAILY use in the home, Eveready Layerbilt "B" Battery No. 486 has fulfilled the promises made for it in laboratory tests. More than a year's study of the performance of this battery in the hands of the public has shown that it is the most satisfactory and most economical "B" battery ever developed. All loud-speaker sets require Heavy-Duty batteries—and the Layerbilt has proved itself absolutely the best of them all.

If you are now using the smaller, Light-Duty batteries, the Eveready Layerbilts will give you twice the service though they do not cost anything like twice as much. If you are already using Heavy-Duties, the Layerbilt, the longest lasting Heavy-Duty ever built, will run your set at least 25% longer, and again you will save money. Unless Eveready Layerbilts now are connected to your set, you spend more

on "B" batteries than you should, and you can have no idea how good a "B" battery can be. The Layerbilt holds a surprise in store for you.

Eveready Layerbilt's unequaled service is due to its unique construction. All other dry cell "B" batteries are made of cylindrical cells, with many soldered connections, and a great deal of space is wasted between the cells. The Layerbilt is built up of layers of flat current-producing elements, that make connection with each other automatically, and that fill all available space inside the battery case. It is every inch a battery. In it you get more active materials than in any other battery and the Layerbilt construction makes those materials much more efficient current producers.

Those are the convincing reasons why the Eveready Layerbilt has proved itself the longest lasting, most

economical and reliable "B" battery ever built.

Just remember this about "B" batteries — Heavy-Duty batteries are more economical than the smaller Light-Duty batteries on all loud-speaker sets, and the patented exclusive Eveready Layerbilt No. 486 is the most economical of all.

Manufactured and guaranteed by
NATIONAL CARBON CO., INC.
 New York San Francisco
 Canadian National Carbon Co., Limited
 Toronto, Ontario

Tuesday night is Eveready Hour Night
 —9 P. M., Eastern Standard Time,
 through the following stations:

WEAF—New York	WTAM—Cleveland
WJAR—Providence	WWJ—Detroit
WEEI—Boston	WCN—Chicago
WTAG—Worcester	WOC—Davenport
WFL—Philadelphia	WCCO—Minneapolis
WGB—Buffalo	WCCO—St. Paul
WCAE—Pittsburgh	KSD—St. Louis
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The densest and heaviest forest the world has ever known, stands today on the Pacific Coast to furnish the United States with its permanent lumber supply for all time

Photo by Cress, Seattle.

Build with lumber that is strong and durable!

LIKE every other business man, the farmer of today must make every dollar bring maximum returns. The cost per year of improvements must be kept at a lower level than ever before.

DOUGLAS FIR farm structures cost less per year than any other type of building. More than this—they may be classed as permanent improvements, adaptable to changing conditions; investments that a man will point to with pride as the years go by.

The sheer durability of Douglas Fir—its resistance to decay—its great strength and stiffness—its ability to hold paint—all combine to cut maintenance costs to the lowest level.

Douglas Fir is available in any size and grade at your local lumber yard.

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Please send me your free book on the farm uses of West Coast Woods.

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W21F

How To Sell Canaries for Profit

By Charles H. Cowgill



IF you are trying to raise canaries as a side-line, you will want to know how and where to sell the birds. So I am going to give you some pointers based on methods I have used for selling birds—and I have sold thousands of them.

In the first place, start right and in a business way. Issue a little circular (the cost will be insignificant) telling all about your birds, prices, etc. Tell in a few chosen words about the quality birds you produce; the carefulness and effort put forth in their training to make them supreme singers. Tell your story in a simple, earnest manner, for there is a power about simplicity and earnestness that is unconquerable. And always bear in mind, whether you advertise much or little, to make your announcements just as neat and presentable as possible.

If your advertising consists in merely hanging a singer on your front porch with a sign "Birds for Sale," be sure he is your best singer and that the sign represents your best efforts in that direction.

While there is a market for canaries at practically all times, there is a greater demand for them in the winter and spring. The highest prices are paid (especially for females) during the breeding season. There is always a great demand for singers at Christmas time, and also around Valentine day. You will be surprised at the calls you will have for birds on these two days.

Reaching Customers

To get in touch with people who are in the market for birds, the best and cheapest way for the beginner is through the classified columns of the daily newspapers. A little ad around Christmas time will generally sell surplus stock for the small breeder. The larger breeder should use an occasional ad. Something like the following will more than pay for itself in sales and publicity:

CANARIES—for sale at all times. Don't buy a bird until you hear our master singers. Visitors welcome.

Canaries can be exploited, especially at the Christmas season. Here is a good sample of an ad to be used at that time:

XMAS GIFT!—Give that dear friend a beautiful singing canary, a gift that will be appreciated every day of the year. Birds trained by master singers and now in full song. Special prices for Xmas. Think it over!

Here is a copy of another ad that has sold hundreds of birds for me:

HER VALENTINE!—This year let it be one of our gayly colored, master singers! For mother, wife, sweetheart or that sick friend, our low, sweet singers make a real, lasting Valentine.

Newly married people are always good prospects. Hotels, restaurants and cigar stores now have canaries. I have sold quite a number to dentists and undertakers. Sell to schools. Interest the teacher and have each pupil contribute toward the purchase of a bird. The

poorer grade of singers you can sell to bird stores in large cities or to people who only want males for breeding purposes. Here is also an outlet for your surplus females. By watching the classified columns of big-city newspapers you can get in touch with any number of bird stores.

The Demand for Canaries

A question that I am frequently asked is: "Will there always be a demand for canaries?" Yes, and the demand must naturally increase with the years. Thousands of birds are imported annually into this country and they come from all parts of the world. The bulk of the canaries, however, comes from England and Germany. Now the Germans breed wholly for song, while the English breed for fine plumage. There

was a time when their birds were superior to the birds we produced, but that time is now past. In both plumage and song the best of the American birds are now without a peer.

Some people might think that because we import thousands of birds annually it is an acknowledgment of their superiority, but it merely goes to show that the American breeders are unable to supply the demand. Every year new breeders are coming to the front, every year importation increases, and still the demand is greater than the supply.

Canaries don't live so long as they used to. From an average life of ten and twelve years a decade ago we find that the average life at the present time is not quite seven years.

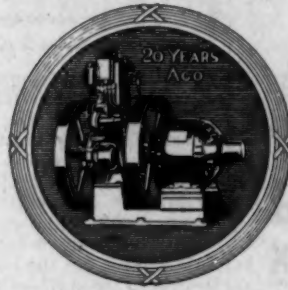
Killing by Kindness

What is the explanation? Merely that birds do not receive the proper food and care. Either they are killed by kindness or neglect. By kindness I mean a bird is fed anything and everything it will eat. It is gorged until it becomes hog-fat, and then some morning it is found on the bottom of the cage, dead. And while I am on the subject I want to say that I can take hemp-seed and other rich feed and kill any bird in less than a year. By neglect, I mean that the owner will fail to keep the cage in a sanitary condition. Apple or lettuce is allowed to rot in the cage; the bird is frequently placed in a draft or, worse still, in the direct rays of the sun. Is it any wonder that bird heaven is getting overpopulated?

In what way does that concern the breeder? Before I reply to that question let us both do a little figuring. There are over 24,000,000 homes in this country, and on an average one home in every twelve has a canary. That means that there are 2,000,000 birds in the homes of the American people. With the present average life of the canary it means that approximately every seven years there is a market for 2,000,000 birds. Now you can understand why we must import birds and why the demand greatly exceeds the supply.



-Today



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 - 3 Easy to operate. Use with or without storage batteries. With battery simply press lever to start.
 - 4 Selective control. Note single switch knob control in illustration for "Start," "high charge," "stop," "bel," and "line."
 - 5 Advanced design. Rotating parts balanced as in finest automobiles. Has patented Ricardo cylinder head and unique cooling system of our own design. Pressure lubricated. And many other advanced features.
 - 6 Economical. More power from same fuel. Operates on kerosene or gasoline.
 - 7 Safe. Approved by Fire Underwriters.
 - 8 No flicker of lights.
 - 9 Completely equipped.
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Fairbanks-Morse built the first of all home electric light plants more than twenty years ago. And even then Fairbanks-Morse was the largest manufacturer of farm engines.

Each year since, Fairbanks-Morse has been accumulating rich knowledge and experience. Has been building engines from two horsepower to hundreds of horsepower. Has been build-

ing electrical equipment from smallest generators to those that supply light and power to entire cities and suburbs.

Is it at all surprising, then, that out of this wealth of experience has come a light plant of such surpassing dependability and quality that it has been called "The light plant of tomorrow"?

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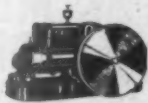
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Illustrated above is the Fairbanks-Morse Belt-Driven Home Electric Light and Power Plant, thousands of which have been in use for many years, giving general satisfaction to their many owners.



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The Corn-Borer Is Loose!

Continued from page 9

it grows, eats downward toward the stubble and sometimes is even below ground-level in the stalk. The most effective way of destroying the pest is by putting the corn in the silo, by burning stalks and barnyard manure, and by thoroughly plowing under stubble and refuse of the field.

Even plowing under the stubble and debris doesn't kill the borer, for it promptly crawls to the surface. It can live over the winter in stalks, cobs, weeds, or under leaves. It can stay frozen in ice or live a long time in water. If any remnant remains on the surface, it will likely find refuge and live. Only complete disappearance of all possible shelter is fatal to the borer.

To accomplish this, agricultural engineers and implement companies have been working to devise new machinery that will accomplish these necessary measures.

New Farm Machinery

The department of agricultural engineering at Ohio State University has devised an attachment for a corn-cutting machine which cuts stalks off close to the ground. At least three implement companies are now manufacturing these devices and have them on the market. Some companies do not ship to borer territory any corn-harvesting machinery that is not equipped with these.

A new type of combine harvester, which cuts the stalks low, takes off the ear, shreds the fodder and deposits it in tight wagon-beds for hauling to the barn, was devised at the university. One implement company put together one of these last fall and tried it out. Another implement company invented a new implement, called a stubble pulverizer—a powerful brute of a machine which tears stubble from the ground and rends it to bits, thus destroying most of the borers in it.

One hope of checking the borer, then, is in absolute clean-up of all stalks and refuse that might harbor it, using these various new machines and devices. At this Detroit conference, Prof. C. O. Reed of Ohio State University presented a tentative outline for three different plans of clean-up—one for the entire infested territory, a second for a more restricted area more badly infested and a third plan for a check belt 50 miles or so wide along the outer border of the borer advance, the expense to be borne by government appropriation.

Voluntary and Enforced Clean-Up

It is probable that this third plan will be undertaken this coming spring, by joint federal and state work. This will likely be a combination of voluntary clean-up on the part of the more intelligent or aroused farmers, and enforced clean-up by official agents on farms of those careless or unwilling. Professor Reed estimated that such a plan would take an initial outlay of \$1,740,000 for the equipment and an annual outlay of \$452,000. This plan is now being revised and worked out in more detail.

One interesting thing in connection with these machines being devised is that the combine harvester-shredder as made by one implement company uses several patents owned by a second company. This latter company is perfectly willing that such use be made. The implement companies are aroused to the menace of the borer and are all working together,

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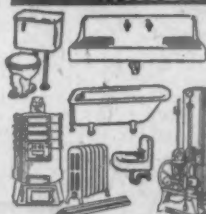
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regardless of patents or of trade secrets.

It is a story too long to tell here of how the scientists—entomologists, agronomists, soils men, plant-breeders, agricultural engineers, botanists and others are now organized and studying the borer. Extension workers, county agents, institute speakers and others are doing their share. Around 1,000 farmers from 16 Ohio counties were led to Canada this past fall by county agents, to see the borer at its worst.

But all of these things are not enough, as Director G. I. Christie, of Purdue University, pointed out at the Detroit conference. The nation needs to be aroused to the gravity of the situation. It concerns manufacturers of implements, packers, canners, banks, railroads and city consumers of steak, pork chops and dairy products. To do this arousing, the Detroit conference selected a public-relations committee of about ten, headed by Dean Curtiss of Iowa, and made up of representatives of states, the United States Department of Agriculture, Canada farm organizations and others.

Congressional Appropriations

This committee has laid plans for asking Congress for an immediate emergency appropriation of \$500,000 and another of \$1,500,000 to be available July 1, 1927. It will also ask state legislatures now in session to appropriate another \$500,000. It will press the enactment of new laws permitting more-stringent control-regulations, better enforcement of quarantines, and will try to interest business and other interests.

It is in Ohio that the most important battle against the borer must be fought. That state, realizing its duty to the Corn Belt, has been organizing in a way that is akin to the war days of 1917-18.

At a meeting at Toledo in October, the matter of new and more-stringent clean-up regulations was presented to a gathering of farmers. Many present had been to Canada. These farmers were practically unanimous in demanding that regulations be enforced to the limit. In fact, they were about two jumps ahead of the officials.

Following this, the branch manager of one of the large implement companies took the initiative in calling a meeting at Columbus at which the Ohio Corn Borer Control Committee was organized. On this committee are represented the Farm Bureau, Grange, Ohio State University, Agricultural Experiment Station, chambers of commerce, retail merchants, implement manufacturers and dealers, banks, building and loan associations, and several others—these latter through their state associations.

Interest Thoroughly Aroused

This Ohio committee is appointing a county control committee in every county. It will ask for legislation and appropriations. County and local meetings and demonstrations are in order in many parts of the state.

One example which shows how Ohio is getting down to business is that farmers' institute speakers were called into a corn-borer school and given instruction about the borer, its danger and methods of control to be used and told to "talk borer at every opportunity."

All these various things may be done—quarantine, clean-up, enforced control, research—and still there is a great big chance that none of them will prove effective.

The corn crop of the country is in danger. There isn't a farmer growing corn who isn't vitally interested. In fact, there is scarcely a citizen in the whole land who will not be affected if the borer ever does to our corn what it has already done to Ontario's.

Something is Happening again to the Harvest!

IN the days of King Tut, in the year when Columbus found America, even on the estates of George Washington, the slow hand harvesters were at their toil. Nations rose and fell, but the gleaners kept on gleanings as they had gleaned for ten thousand summers.

Then a wonderful thing happened to the harvest. A young Virginian built a machine to reap grain mechanically! His name was Cyrus Hall McCormick, and the year was 1831. For the first time in history men and women straightened their bent backs and watched a machine harvest the grain. And the man with

the machine did the work of six hand harvesters. A mighty deed was done for humanity when into one man's hand was put the power to

raise bread for many mouths.

The McCormick reaper grew into the binder, and the new idea of machine farming brought many other machines. Men went into the cities and began to build industry. If something had not happened in harvesting to make bread plentiful and cheap, we could never have had railroads and automobiles, the telephone, electricity, the movies, the radio, and other wonders of the modern world.



The McCORMICK-DEERING Harvester-Thresher

NOW, AGAIN, SOMETHING BIG is happening to the harvest. The Harvester-Thresher, a remarkable machine that cuts and threshes in one simple operation, has come to the rescue of the grain farmer of the west and is coming eastward. The work of gathering the grain, that seemed so swift when the reaper came, has become slow again with the familiar binder. Times have changed. Everything is speeded up. Time is precious on the farm. Man labor is high priced and scarce. Loss and profit are delicately balanced on the scale and big crops must be produced at minimum cost.

The McCormick-Deering Harvester-Thresher, illustrated above, carries the grain straight from the standing stalk to the grain tank and wagon box, ready for the miller. By its aid the standing wheat can be put into the loaf of bread in a half day's time. It does away with shocking and extra handling, the twine bill, and the costs of separate threshing. It reduces weather risks. With a two-man crew it clears a 10 to 16-foot swath, cutting, threshing and cleaning forty-five acres of grain between sunrise and sunset.

Translating into money terms, the Harvester-Thresher method, with a saving of 20 cents per bushel in the harvesting of grain, already has saved millions of dollars for the farmers of America. Thus is summed up the evidence that something is happening again in harvesting.

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Write Quick Don't wait if you want this chance. Opportunities like this can't wait. My organization for this year must be completed at once. If at the start you can devote only your spare time to this business, I can arrange that. Just say, "I am interested in your proposition" in a letter or on a postcard. Mail it and I'll send complete particulars by return mail. All it will cost you is a stamp. You can begin doing business and making money within a week without a penny more capital. First applications get the preference.

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Flivver Engine Runs



on Dust

By L. S. Richardson

WILL the wonders of a flivver never cease? Chemical engineers of the Department of Agriculture, in tests with the motor of an ordinary flivver, were able to make it run on a diet of grain dust—that part of Old Dobbin's feed which often gives him the heaves and greatly impairs his working ability.

It was necessary to make a few changes in the engine to adapt it to the new kind of fuel. The head was removed and the combustion chambers enlarged by forging pieces of six-inch pipe into shape to fit around the cylinders. The experimenters did not take time to devise a dust carburetor, but removed the manifolds and fed the dust by hand with a spoon into a tube connected with the intake-valve port. The suction created by the pistons drew the dust into the chambers in a cloud, where it exploded when ignited by the regular sparking system. About a spoonful of dust was required for each explosion.

No prolonged run was made, but explosions were readily and frequently obtained. In one instance as many as twelve successive explosions were recorded. This was enough to show the possibility of using various kinds of combustible dusts as a source of power in engines designed especially for dusty fuel.

The explosiveness of grain dust in elevators, as well as many other kinds of combustible dusts created in plants manufacturing different kinds of products, especially those using milling and grinding processes, is well known. Many lives have been lost, and much property has been damaged as a result of a cloud of dust becoming ignited and exploding in a closed room. Many elevators and feed-grinding plants now have dust-collecting systems which collect the dust and remove it to a disposal point as a precaution against such explosions. One large grain-elevator in an eastern city hauls away several carloads of dust in a day.

High Protein Wheat

An elevator at Warren, Minn., received, three years ago, a sample of wheat that tested 14.75 per cent protein. Investigation on the part of the elevator officials could disclose no cause, except that the wheat crop had followed extensive croppings of sweet clover. Since then careful check has been made on other fields that show wheat following sweet clover to carry on the average 2 per cent more protein than wheat grown without sweet clover in the rotation. Since in Minnesota farmers receive pay for wheat according to its protein content, this discovery is valuable. The farmer whose wheat had the 14.75 per cent protein got 30 cents more for it than did farmers with the usual 10 per cent protein. H.

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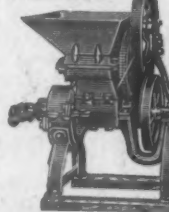
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New Facts on Tire Failures

By Ed Henry

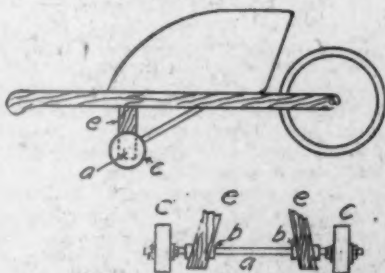
USING testing machines developed by the Bureau of Standards that make it possible to determine within 48 hours what would otherwise require months of use on the road, the Department of Commerce discovered some interesting and important factors that influence the life of automobile tires. Among other things, it was found that within the recommended limits of air pressures used in tires, the higher the pressure was maintained the better the tires stood up. Fabric tires developed a much higher temperature than did the cord type. Their useful life was also much less than cord tires.

The principal cause of failure in the tires under test was separation, which, however, did not always occur in the same part of the tire. In most cases it occurred between the tread and the breaker strip, the breaker and cushion of the tread, the cushion and carcass, or body, or between the two outer plies of the body. Usually any particular brand of tire showed the same type of failure, which would indicate each particular make has its own particular weakness.

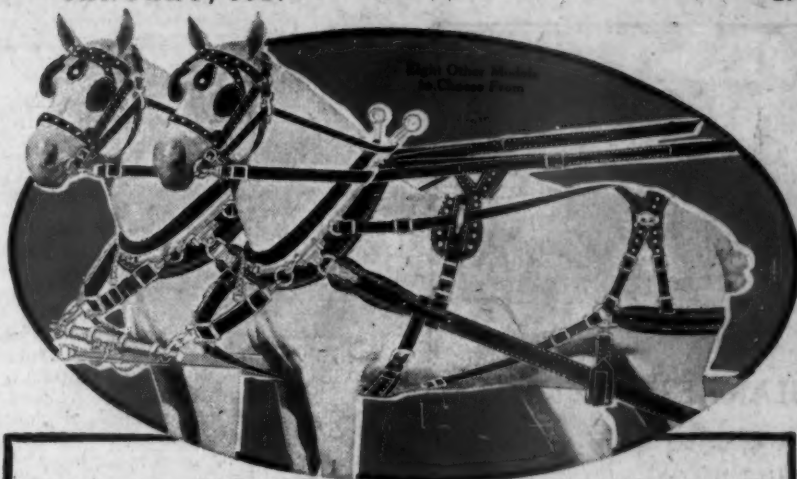
It was also discovered that rubber-compound inner tubes for truck tires appear to withstand the action of heat better than did tubes of the pure gum type. Likewise, a tire carcass in which the friction rubber was slightly compounded appeared to stand up better than did those in this test in which pure gum was used.

From the foregoing it is evident that, barring accidents, tires of the same make usually fail in the same way, and the practical application of this fact should enable users to select tires to the best advantage.

Extra Wheels for the Wheelbarrow



Two small extra wheels on the standards of the wheelbarrow will be useful when heavy loads are to be hauled, and they will not interfere with the use of the barrow in the regular way. A good way to attach these is as follows: Secure a rod, a, about one-half inch in diameter and one and one-half feet long, and thread both ends for about two inches. Also secure two pieces of iron or brass pipe (preferably brass), b, b, about two inches long and of an inside diameter to slip easily onto the rod. Old Ford bushings, such as are used in the steering knuckles, will do. Bore a hole near the bottom in each of the standards, e, e. These holes should be in line and of such a size that the bushings can be driven in tightly. The wheels, c, c, can be cut out of wood and will be stronger if made two or three ply with the grains crossed. A strip of heavy sheet iron can be used for tires. These wheels are clamped to each end of the rod by two nuts and washers as shown.



New

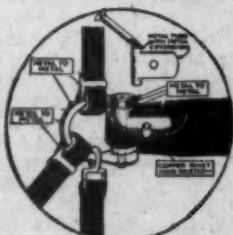
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you many times the price of good Olde Tan! Get it now and save trouble later! Remember—30 days' Trial—and nothing to pay for four months! But act quick! Write for free book today.

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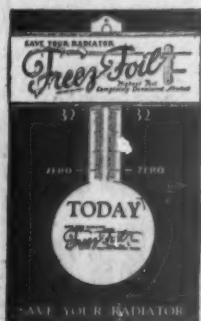
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The Three-Story Garden

Continued from page 10

15 is courting crop failure. Anyhow, our pea season runs from early June to about August 1, and by that time we are ready to shift to the Limas.

Before the peas are planted, as the ground permits, beets, head lettuce, early cabbage, cauliflower, chard and onions are transplanted from the hotbed and cold-frame into the maincrop rows in which the earliest corn is to be planted. They get a fine start before the corn interferes; and any of them that threaten to interfere with the corn are chopped out with the hoe. There are plenty left. Beets, curly lettuce, carrots, spinach, radishes and kohlrabi are seeded in the corn rows reserved for late planting. These are nearly all out of the way even before planting the corn. Here, again, any of the minor vegetables that threaten the corn after it is through the ground are chopped out ruthlessly; for in the corn rows "Corn is King."

Intercrop Peas

Every intercrop row is planted to peas either in a single- or a double-drill row. When it is time to plant the Limas the poles are set, the beans are planted close to the poles and all interfering pea vines are pulled out. But that is only a few vines, at most.

When it is time to set out the tomatoes, they are set right in the pea row, the vines that interfere pulled aside and allowed to stay. Sometimes a ring of twigs or small stakes is set around the tomato vine so that it can easily be seen, and interfering pea vines are brushed aside from time to time.

When the tomato begins to make its growth, the stake is driven close to the plant (on its north side) and the plant is tied to the stake, all the lower branches being pruned off. The pruning and tying continue until the pruned stem is clean for 18 inches above the ground and the plant has reached the top of the stake. Usually but two, though sometimes three, main branches of the tomato are allowed to stay.

To avoid duplication of shadow from the Lima beans and tomatoes, they are planted in alternate pea rows; the Limas twelve feet apart in their rows and the tomatoes six feet apart in their rows. This makes the spacing of the Limas 6 x 12 and of the tomatoes 6 x 6 feet. No duplication of shadow is possible with this spacing. Instead of sprawling over nine square feet of ground, the staked tomato (with trimmed stem) occupies less than one square foot of planting space. And instead of taking up 16 square feet of available planting space the Lima, under this system of spacing, really occupies less than three square feet.

Corn in Succession

The corn is planted in successions, usually eight of them, in hills three feet apart in the maincrop rows. Golden Bantam is used, not only because of its high quality, but its scanty foliage. The space between the hills of early-planted corn has already been provided for; that between the hills of late-planted corn is

debatable ground. We dare not plant anything that will shade the corn or interfere with its thorough cultivation; and we are up against the fact that these late-corn rows will cast shadows long after the sun power has gone into a partial decline. Mostly this space is used for broadcast turnips, for spinach, head lettuce and odds and ends for late fall use. A fine crop of turnips can be taken, if they are seeded early enough, and if the seed is not broadcast too thickly.

The plan is so to match the plantings that as the plants in the maincrop rows near maturity those in the intercrop rows are getting their start; and, conversely, as those in the intercrop rows are finishing, those in the maincrop rows are coming on. And then, when the tender crops are killed by the frost and their remains removed, there is still left a late-fall garden, the last on the list being the parsnips and the salsify, turned out or dug out with the spring preparation of the garden, and the overwinter spinach and scallions, kept in a part of the garden reserved for the last digging.

Root Crowding

On the face of it, this system may look like it would so pack the soil with roots that the plants would interfere with each other. I have not found it so, even when spread-root plants are planted close. In dry weather I have not noticed any more suffering than in gardens where there were broad belts of bare ground between rows. Tap-root plants, such as carrot and radish, can be planted close to the spread-root plants without interference. It is in this difference in root systems that there lies the opportunity to pack the soil with roots. The constant addition of humus to the soil from root systems of four or five crops a year makes manure unnecessary. Hence, there are no weeds from manure of uncertain source.

This Three-Story System of Gardening is contrary to all the old rules of gardening. The rules are with us. You will find them in every book on gardening. A Chinaman would grin at them. An Italian from the Roman section would consider them a joke.

The apparent folly of planting Lima beans in among the growing peas, right in the row, and of setting out tomato vines in the same place strikes hard on the orderly mind. The planting of Brussels sprouts, cabbage and cauliflower between hills of growing corn worries the traditional gardener.

The trouble is that the gardener-by-rule doesn't visualize in garden planting. He plants from day to day. When he finds a bare spot in the garden he considers it one of the inevitable things that come in gardening. Our Italian friend sticks something in to cover the bare spot. But that is not enough. The time to fill a bare spot is before it goes bare. If the gardener sees his garden not only as it is but as it is going to be a month or six weeks further on, there will be no bare spots to fill, for they will have been provided for long in advance.



Three-story plant—little shade at the ground

Pay-Day Selling



By Hilda Richmond

A YOUNG tenant and his wife, whom I know, have shrewdly worked out a marketing plan whereby they get rid of their surplus products at good prices, and get cash for them. They sell on "pay-day" in nearby factory towns.

First, this man has his meats cold and fresh, in pieces of convenient size. He does not encourage small sales, as they take too much time. The women have the pay checks and can buy quantities, so everything is arranged in 10-, 15- or 20-pound parcels. A good chunk of beef or pork at from five to eight cents less per pound than the butcher asks is always attractive, while eight or ten pounds of fresh sausage will not go far in a large family. The meat is the very last thing prepared, so it will be perfectly fresh. Scrapple, pigs' feet, hearts, livers and all the scraps are used.

Then there are kraut, vinegar, cottage-cheese, live chickens, eggs, late vegetables, pears, apples, dried corn and dozens of other things. Frequently he has to run home for a second and third load. The more perishable things go first, then the canned stuff and the vinegar and fruit. He stays mostly in the district where factory workers live, finding them excellent patrons on pay-day. They have the money and lay in a supply of cheaper food than they can get down town. He gives them good measure and first quality stuff.

By taking a whole day and getting out a large quantity, he does much better than to break up a number of days going the rounds. His patrons know when to look for him, and have the money ready.

□ □

A Country Book Club

In sections where public libraries are rare, it is still possible to have an abundance of good reading by forming a book club. Each member of the club contributes the price of one book, and the books are circulated from home to home.

It would be possible, of course, to have each member buy the book she desires as her contribution to the club, but better results can be secured by having a book committee to select the books. This committee can request suggestions from the members of the club, but in addition they can take counsel of librarians and carefully consider various book reviews. Buying the books in one order, it will frequently be possible to get a better price than if the books were bought singly.

The size of the club must also be carefully considered. It is better to have two clubs than to get the clubs too big. For example, suppose the rule is that each member may keep a book for reading two weeks; then twelve books will last for six months. A large club also makes the circulation of the books more difficult.

There should be a card in each book indicating the order of the readers, and it will be found better for each reader to call for the book which she is to have next. If those who have read the books are expected to pass them on they are more likely to procrastinate than when a new book is ahead to be obtained and read.

J. E. Russell.



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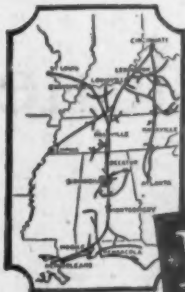
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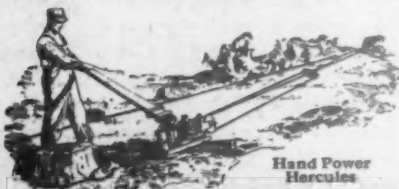
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The Value of Straw

By
P. C. Grose



A LOT of folks in our section sell straw after threshing time to the balers. We have been doing it for some years, especially in years when we have an abundance of straw. Our neighbors do likewise, contending that one can profitably sell the straw and invest the money in commercial fertilizer. Our arrangement with our tenant allows him one-half of the revenue from straw sold, and in turn he is obliged to pay for one-half of the commercial fertilizer that is used on the farm.

Recently, however, we have been giving some thought to the matter and are inclined to abandon the practice. A letter to our experiment station brought this reply:

"One ton of wheat straw will contain on the average about twelve pounds of ammonia, four pounds of phosphoric acid, and 20 pounds of potash. The phosphoric acid and potash can probably be valued at about the same price as in commercial fertilizers. Due to its low availability, the ammonia is not worth so much as ammonia in commercial fertilizers and should probably be valued at not more than one-half as much per pound. On this basis the fertilizing elements in one ton of wheat straw should be worth about \$2 a ton, figuring the elements at their cost in phosphate of ammonia, acid phosphate and muriate of potash. We are of the opinion that if you can bale and sell your straw and well invest the money in high-grade commercial fertilizers that you will find it practical."

Straw for Fertilizer

This season wheat straw is selling at about \$1.40 a ton to the balers. This means that one is disposing of \$2 worth of fertilizing material for \$1.40. Of course, as some will maintain, the cost of hauling a ton of straw to the field and spreading it will exceed 60 cents. We doubt this, though admitting it is problematical; with a manure-spreader these days one can haul out a lot of straw manure in a day.

However, these factors present the case with about equal merit for either the straw or its equivalent value in commercial fertilizer; or, as our experiment station says, to sell the straw and purchase commercial fertilizer may be practical. But there are a number of other factors and these strongly favor the straw. Straw, in addition to its fertilizing elements, adds humus to the soil. Straw, in the feed-lot, constitutes a splendid absorbent of liquid manure, and experiments have proved that ton for ton, liquid manure or urine from sheep, cows and horses exceeds in fertilizing value that of dung; and this valuable manure can best be captured and returned to the soil by using plenty of absorbent material such as straw.

And this was the argument that won with our tenant: "Let's keep the straw on the farm and buy commercial fertilizer, too."

Of course, to sell the straw meant a little more cash money the first year; but if by keeping the straw and also purchasing an equal amount of commercial fertilizer, he so increased the productivity of our land that the next year his larger crops gave the tenant back the value of the straw and a lot more besides, it was the logical thing to do. We pointed out

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that he did all the work and supplied the equipment investment in producing the crops. In other words, he put hundreds of dollars each year in producing the crops, and his cost was virtually the same whether he produced a small crop or a large crop, and the gains he obtained from manure and fertilizers were almost clear profit to him.

Likewise, our investment in the farm remains the same whether he raises large or small crops. Therefore all increases from manure and fertilizers (we rent on shares) means clear profit to us.

□ □

Profit in the Roadside Market

Our main country roads are dotted with small stands inviting the traveler to pause and buy. Upon first glance, some of these could be mistaken for co-operative billboards, as they are generally covered with signs advertising cigars, tobacco, soft drinks, hot-dog sandwiches, etc. Granting that the above articles should be found at a well-organized roadside stand, I think, from a farmer's point of view, it would be better to call the attention of the passer-by to products of the farm. There is nothing more appealing to the average tourists than something offered that has been raised on the farm, prepared at home and is offered for sale right at the farm's front door.

Country-cured ham, flanked on either side by a slice of home-made bread, will make the tourist hungry, and some folks will reach much farther down in their pocketbooks than they would for the common hot-dog sandwiches. Hot dogs can be had anywhere, and the signs advertising them become as monotonous to the traveler as the hot-lunch barker at the county fair.

Country Products

Instead of ice-cold pop, why not announce ice-cold milk or buttermilk? A sign of this kind will stop a lot of travelers who pass the pop and other soft drinks by. Some of the city people motor to the country looking for something countrified to eat. Country tourists are not on the road long until they are longing for something to eat and drink like they have at home. The roadside stand that announces such articles should prove profitable.

A roadside market should, above all things, be clean and neat. A neatly painted sign should be placed 100 yards or more in each direction so as to call the attention of travelers to your market, and if the sign appeals, the traveler will be ready to stop when he comes to your place.

Make prices reasonable, but be sure you are getting your 10 per cent. Not all tourists are loaded with money, but all will be willing to pay a fair price if they can get what they want. Sell what you advertise. If you announce home-grown melons, don't sell the shipped ones that taste like pumpkins and have thick rinds. You may think you can stick the traveler because you never expect to see him again, but travelers going away from home generally come back and often they make regular trips along your road.

A man I know planted a small melon patch close by the road that led to the fair-grounds. Taking advantage of the heavy traffic during fair week he put up a sign "Home-grown melons." He sold a large quantity of melons, but folks who looked at his patch and the large pile of melons in his front yard wondered how so many melons could be grown on so small a lot. They were not grown there. He hauled shipped-in melons to his farm at night and sold them for home-grown. The next year he tried the same game but the public passed by, for they remembered.

O. N. Stinson.

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A Little Talk About Saws

Continued from page 16

back of each tooth, as shown at X. This is put on with a slim triangular file. Set less than one-half of each tooth, every alternate tooth to right, others to the left.

To clean a rusty saw, do not use sand-paper or emery-cloth, for these will leave



Fig. 5—teeth after jointing

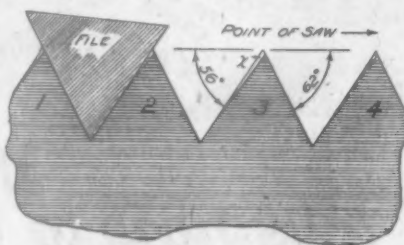


Fig. 6—buck-saw teeth

scratches on the blade. Use pumice stone and water to remove rust, then wipe dry and cover with a thin coat of machine oil.

[Some of the saw manufacturers send out dandy booklets on the care of saws, free. If you would like to have one, we'll tell you where to write.—Editor.]

□ □

"Jujubes in Texas," Circular 41, Texas Experiment Station, College Station, Tex. Free, foregoing address. (In case you don't know, jujubes are a kind of fruit that grows in southern states.)

□ □

\$60 in Prizes for Shellbark Hickory-Nuts

The Philadelphia Society Promoting Agriculture offers \$60 in prizes for the best shellbark hickory-nuts. There is a first prize of \$25; second prize, \$10; two third prizes, \$5 each; five fourth prizes, \$3 each.

Send at least two dozen nuts from each tree that is to be entered, and mark the tree well so that no mistake can be made. If more than one variety is sent, mark each variety by name or number.

Send the nuts by mail, carefully packed in a box or bag containing a slip with the name and address of the sender plainly written in ink. It is well to send a letter separately describing the tree, its age, size, location, size of crop and if an annual bearer—but send the nuts anyway, with name and address. The prize winners must furnish two lots of scions or cuttings for experimental propagation at the request of the society.

All nuts not now being propagated which are grown in the United States or Canada are eligible, provided they have not been entered in the Northern Nut Growers' Competition for 1926.

The receipt of all nuts will be acknowledged and a written opinion as to their value sent.

Contest closes February 1, 1927. Send nuts to George F. Curwen, Villa Nova, Pa. Get busy, boys.

Shaking the Shell Game out of Farming

WHY play a continual "shell game" with nature, markets and profits?

Polk County, Florida, farmers year in and year out average over \$350.00 an acre for their crops.

Twenty acres here will produce larger profits than a hundred in other sections.

Good farm lands in Polk County are reasonably priced. Good roads, schools, churches. Ideal living conditions in a climate that has no equal the year around.

The Chamber of Commerce does not sell land but wants to tell industrious farmers how their work here will earn them larger profits.

Write for interesting Farm Booklet giving all information. It is free.

Lakeland
CHAMBER OF COMMERCE

314 Orange Street Lakeland, Florida

THE CENTAUR TRACTOR Makes Farm Work Quicker, Easier and More Profitable



HERE is a dependable, low-cost tractor that takes the drudgery out of farming and enables you to do twice as much work in a day's time. The CENTAUR is a different tractor—more flexible than any other—better fitted for all round use on the farm—less expensive to buy and operate—and above all, trouble-proof. This sturdy tractor will cut your planting and cultivating costs to the minimum and give you an inexpensive power unit for dozens of other jobs.

Plows 7" Deep—Backs on Own Power

The CENTAUR is a riding tractor for all jobs. Does plowing, harrowing, discing, seeding, cultivating, hauling, feed grinding and all other belt and draw bar work. Low cost. Fully guaranteed. Get the facts about this money-making, work-saving tractor at once. Write today.

THE CENTRAL TRACTOR COMPANY
33 Central Avenue Greenwich, Ohio

SPRAY YOUR FRUIT TREES AND VINES

Reduced Prices Destroy the fungi and worms; be sure of larger yields of perfect fruit.

**Stahl's Excelsior
Spraying Outfit
Prepared Mixtures**

are used in large orchards everywhere; highly endorsed by successful growers for thirty-five years. 20 models, power or hand types. Write for free catalog containing full treatise on spraying fruit and vegetables.

WM. STAHL SPRAYER CO.
Box 715 Quincy, Ill.

STANDARD GARDEN TRACTOR

A Powerful Motor Cultivator and Lawnmower for Gardeners, Florists, Truckers, Housewives, Berrymen, Suburbanites, Estates, Parks, Cantineries.

Does 4 Men's Work. Discs, Harrows, Seeds, Cultivates, Runs Belt Machinery & Lawnmower. Catalog Free.

STANDARD ENGINE COMPANY
3238 Como Ave. S. E., Minneapolis, Minn.
Eastern Sales Branch—149 Cedar Street, New York

**PEACH \$5.00 per 100 & up.
APPLE TREES \$7.50 per 100 & up.**

Small or Large Lots by Express, Freight or Parcel Post. Pear, Plum, Cherry, Berries, Grapes, Nuts. Shade and Ornamental Trees Vines Shrubs. Catalog in colors FREE.

**20 CONCORD GRAPE VINES - \$1.00
8 APPLE TREES, 4 VARIETIES - \$1.00
4 CURRANTS and 4 GOOSEBERRY - \$1.00**

All postpaid. Send for FREE Catalog.
FAIRBURY NURSERIES, Box A, Fairbury, Neb.

A Farmers' Commission Firm

Continued from page 18

it with the demand. Perishable fruits and vegetables must be sold, and they can not be held over indefinitely. If there is a heavy supply, the dealers naturally try to "get out from under" as best they can by selling at the highest figure obtainable. If the same amount of produce were distributed more evenly over the week, there would not be such sharp ups and downs.

Books Open to Members

"The books of the Farmers' Co-Operative are open to any of the shippers. They are at liberty to look over the accounts," said Mr. Brown. "Not only can the members of the co-operative ship their produce, but any other shipper whose goods are high enough in quality can do likewise. We do require a good honest pack of high-quality goods."

It wasn't all easy sailing without any bumps. At the end of the first year some of the 20 original stockholders were dissatisfied with the results. But instead of pulling and hauling back and forth and ruining the purpose of the organization, those who were not satisfied (ten in number) left the company and two more shippers were added, making a total of twelve. These twelve farmers all had the same object in mind, and there was perfect agreement in the proposed practises. That they were successful is borne out by the fact that in the beginning the personnel consisted of the manager, a bookkeeper and three men. Today there are two bookkeepers and five men, not including the manager—nearly double the original number. During the heavy months in 1925, from 2,500 to 3,000 baskets, not including the bunched vegetables such as beets and carrots, were handled every day. Mr. Brown estimated that during the heavy season in 1926, the company handled as high as 5,000 packages a day.

Wide Range of Products

The stockholders believe that the wide variety of products handled by the house was largely instrumental in the success. In the vegetable line there are radishes, rhubarb, spinach, asparagus, peas, beans, tomatoes, sweet potatoes, white potatoes, pumpkins, root crops and numerous other vegetables. Some of the major commodities in the fruit line include strawberries, cantaloupes, peaches, early and late apples, plums, pears and cherries. Another example of the foresightedness of the management in providing a variety is the addition of express shipments of beans, eggplants and Lima beans. Potatoes, cabbage and other staple commodities, bought on the wholesale market, were also jobbed. The aim was to provide a variety during all seasons so that a buyer does not need to shop at a large number of wholesale houses, but can satisfy his needs at the Farmers' Co-Op.

Paying attention to small details has had much to do with the success of the company. Success is due to a number of factors, of course, but I believe the primary factor is the employment of a man who is thoroughly familiar with all angles of the business, and then standing back of him and aiding in carrying out the principles. The farmers might have had one of their members for manager, but they were wise enough to hire a specialist.

The "Farmers' Co-Op" of Philadelphia is simply an example of what concentrated, conscientious effort of an organized group of farmers can accomplish in a better-marketing campaign.



Where the lure of the Sahara desert is reproduced under Western skies.

Here's the Motion Picture Capital

—in the greatest vacation land of all. Here you'll find perfect samples of practically all the world—a great place for a winter trip.

HERE — assembled for the moving picture director, as for the tourist—you'll find the desert sands of India, the rocky coasts of Scotland, the majestic mountain ranges of Switzerland, Italian lakes, Mediterranean islands, Old Spanish Missions, Alaskan snow scenes, the mighty Yosemite, the great plains and the cacti of our own vast West and scores of other likenesses—all are here to lend "the atmosphere of anywhere" to pictures.

You can do this in a day in Southern California: Spend the night a mile high in a mountain cabin—ride horseback in the morning through a pretty valley—cross a desert amid oceans of wild flowers in the afternoon—dine and dance at a fashionable hotel in a great city in the evening—then repair to a cottage by the seashore for the night, all of



A bit of picturesque "Scottish" coast.

the distance over the most perfect paved roads you've ever seen.

You'll find no variety like this except in Southern California—vacation land supreme. That's why vacationists by the thousands and motion picture companies by the hun-

dreds come to this favored section of your country.

See here also the diversity of semi-tropical agriculture. Visit orange and lemon packing houses. Watch huge irrigation systems in operation. Let your winter vacation show you the unusual conditions of farming in this different land.

Come Now. The trip from the East is fascinating—you see the old Indian lands of early days, the gorgeous Rockies, the canyons through which the pioneers toiled. New comfortable trains now make the trip five hours faster from Chicago.

You'll find here excellent hotels, apartments and bungalows with rates, on the average, less than in most other sections.

Stay a week, a month, or all winter. Make this the happiest, most profitable vacation you have ever spent.

The first step is the coupon. Mail it today. We'll send you one of the most complete books ever printed on the subject of vacations, 52 pages, profusely illustrated.



A glimpse of the "Frozen North."

Southern California

All-Year Vacation Land Supreme

The city of Los Angeles, with a population of well over a million, is the largest city on the Pacific Coast and is the hub of one of the country's richest agricultural communities.

The growth, wealth and marvelous resources of Southern California are indicated by the following facts and figures pertaining to the County of Los Angeles alone:

Value of Agricultural and Live Stock Products (1925), \$85,012,744; Value of Citrus Products (1925), \$23,241,503; Oil Production (1925), 140,000,000 bbls.; Harbor Imports (1925), 4,176,177 tons; Harbor Exports (1925), 16,114,566 tons; Total Harbor Tonnage, 20,310,743.

A producing season of 365 days a year permitting year 'round crops.

ALL-YEAR CLUB OF SOUTHERN CALIFORNIA,
Sec. 1-B, Chamber of Commerce Bldg.,
Los Angeles, California.

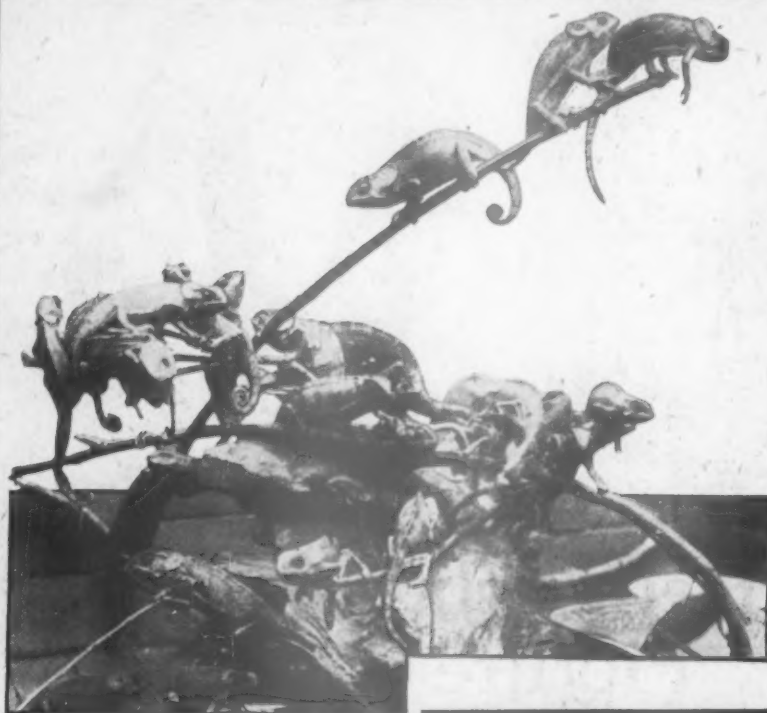
Please send me your free booklet about Southern California vacations. Also booklets telling especially of the attractions and opportunities in the counties which I have checked:

☐ Los Angeles ☐ Orange ☐ Riverside
☐ San Bernardino ☐ Santa Barbara ☐ Ventura
☐ San Diego

Name.....

Street.....

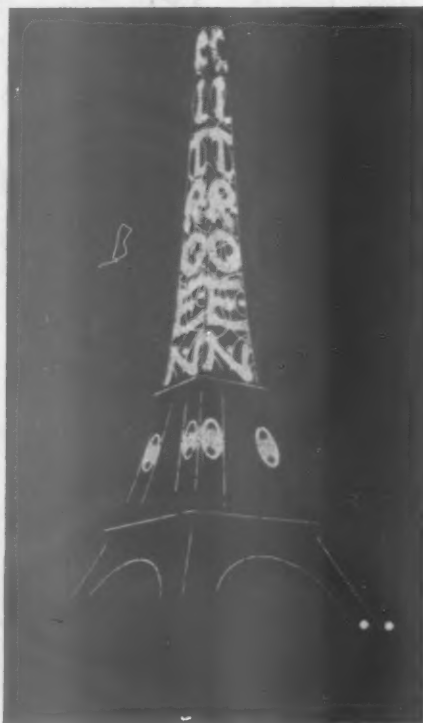
City..... State.....



Visitors to the Washington Zoo love to watch these chameleons, just from Africa, constantly changing their color. And isn't that a graceful curl they can put in their tails?



For evening wear, girls: bracelet, earrings and necklace of pearls and rhinestones, and an ostrich fan. However, if you are pretty enough, some of them can be omitted



Here's the new blouse which Dame Fashion favors for this winter. It's gold and white brocade, trimmed with little black-satin buttons—to be worn with a plaited black-satin skirt

The famous Eiffel Tower has now become the biggest illuminated advertising sign in Europe. "Citroen," as perhaps you know, is a small automobile—the "Star" or "Chevrolet" of France

Our Picture Page

All photos © U. & U.



Wonder how the stork stowed away those long legs when he brought this baby giraffe to the Zoo. He's five feet tall



She's "at anchor," if that is the correct term for an airship. At any rate, this shows the navy dirigible Los Angeles moored to the new Ford mast at Dearborn, Mich. She had to hurry home next day to her base at Lakehurst, N. J., to escape an approaching storm

JANUARY, 1927

P. A. revises all your pipe-ideas



TAKE that any way you like. If you have always wanted to smoke a pipe, but felt you didn't dare, Prince Albert will convince you that you *can* . . . and enjoy it! If you are already a pipe-smoker, but don't know the joys of P. A., this tobacco will be a revelation.

Beginners and old-timers alike are amazed that any tobacco can be so mild and still have that satisfying body that men demand in a smoke. They revel first of all in its fragrance, promise of a wonderful taste to come. And when they light up and pull in—ah . . . !

Buy yourself a tidy red tin of P. A. today. You'll find it cool, as a dip in the surf is cool. You'll find it sweet, with a sweetness that never cloy. You'll find it mild as Indian summer . . . a mildness that lets you smoke to your heart's content.

You may think your present brand is the last word in pipe-tobacco. Don't stop there. Be inquisitive. It will bear repeating: P. A. revises all your pipe-ideas. Make the test today—the only test that counts: a tidy red tin, a jimmy-pipe, and a match!

P. A. is sold everywhere in tidy red tins, pound and half-pound tin humidors, and pound crystal-glass humidors with sponge-moistener top. And always with every bit of bite and parch removed by the Prince Albert process.

PRINCE ALBERT

—no other tobacco is like it!



Turkey Raising in Texas

By
F. W. Kazmeier



Judge Atherton says he never saw a more perfect wing than this

TEXAS turkey-farmers do not practise inbreeding, but each year buy new toms of unrelated stock and mate with hens that are healthy, vigorous and medium-sized. They find that, as a rule, young two-year-old birds are best for breeding. Each year, from the early hatches, they select the best specimens for future breeding, disposing of the late hatches in market. Only birds with long, straight breast-bones are chosen, in nearly every case.

The breeding stock is never kept in confinement. Poults from stock allowed unrestricted range are much stronger, easier to raise and more profitable. Practically all of the most fatal diseases are eliminated when the turkeys are kept on fresh ground each year.

During the winter the breeding stock is fed very lightly of food that is not too fattening. Corn is not extensively fed; instead, a mixture is given, composed of oats, milo or kafir, and barley or wheat, equal parts. Some turkey-raisers feed the oats boiled, with good results. In the morning the feed is rather scant, but at night the birds are fed enough to fill their crops. Water, grit, oyster-shell and charcoal are kept before the birds at all times. Whenever any of the birds go off feed, the amount of ration is at once cut down until all are again eager for feed at feeding time.

Several weeks before the turkeys begin to lay, they are well fed in order to get them in good condition. They must not become excessively fat at breeding time, yet they must have some surplus fat. About the end of February, 15 per cent of corn, milo or kafir is added to the regular ration, but this is discontinued at the end of the laying season.

The laying season usually starts when the young hens are ten months old. They lay in "periods," in spring and midsummer. Sometimes laying is hastened by feeding such forcing feeds as beef scrap, cottonseed-meal, sunflower seed and oats.



Large flocks of fine Bronze turkeys are found on many farms in Texas

One mating, as a rule, is sufficient to fertilize all the eggs laid in one period. Many successful Texas turkey-raisers keep the gobbler away from the hens during laying time, especially in the morning. As a rule, turkeys are mated in the proportion of one male to eight or ten hens.

Expensive Shelter Unnecessary

Turkeys in Texas do not need expensive houses. During pleasant weather they do well roosting in trees. In bad weather they need a shelter to run under. An ordinary shed, with the sides enclosed with hog fencing, provides ideal shelter. This shelter is equipped with strong round roosting-poles, water-dish, grit, shell-hopper and a box of charcoal. Turkeys must have plenty of fresh air and sunshine, but, like chickens, can not stand the least draft at night without catching cold. If the specific germ is present, the cold will be very likely to develop into that deadly disease, roup.

By feeding in the evening near the roosting place, there is no trouble in training the turkeys to come home at night. Consequently they roost in trees or buildings nearby.

Common salt-barrels, with one end removed and laid on the side, are used for hatching-nests. These are covered with brush to make them look more natural and secluded. Quite often barrels do not appeal to the hens; in such cases they are allowed to choose their own nests.

Usually the first lot of eggs is set under a hen, or in an incubator, instead of under turkey hens. This will make the hens lay twice as many eggs. The turkey hens are permitted the last hatch of eggs.

The eggs laid in the early part of spring are gathered as soon as possible after laying, to prevent chilling. Turkeys lay early

in the morning, and a watch is kept lest skunks or crows rob the nest.

When the turkey hen becomes broody, she indicates it by remaining on the nest. If she is given eggs, she is let alone as much as possible, and always attended to by the same person, as she will not stand for too much fussing. At hatching time the poults are allowed to run with the mother hens. When common hens are used to hatch turkey eggs, several are set at the same time, and all the poults are given to a turkey hen that has just become broody. A turkey hen can take care of from 18 to 20 eggs at one hatching, and can mother a brood of from 20 to 25 youngsters.

Feed for the Young Turkeys

For the first few days young turkeys are fed bread soaked in milk and squeezed dry, and then given a mixture composed of bran, cornmeal and wheat middlings, slightly moistened but not sloppy. A successful method commonly used is to feed for the first few days, often and little at a time, rolled oats or pin-head oatmeal, and sour milk (clabber). After the poults are large enough, they are fed hard grains (corn, kafir or milo), same as for mature stock. If the poults are kept in confinement, they are given green feed and finely-cut cooked meat. Some people keep a few chicks with the poults, to teach them how to eat.

The turkey hen and her poults are placed in an A-shaped coop, high enough to let her stand erect. The coop is placed in a large pasture where turkeys have never been raised before. For the first month the turkey hen is confined in the coop, and the young birds are allowed free range from the start. If the hen is bound to roam too much with her young when she is given free range, a weight is tied to one of her legs. The coop is moved to fresh ground each day, and everything in and about the coop is kept scrupulously clean and well disinfected.

It is the experience of Texas turkey-raisers that young turkeys do better on grasshoppers, insects, grass, free range, pin-head oatmeal and clabber, than on anything else they can feed.

While turkeys are very delicate when young, they are exceedingly hardy when fully developed. During the first days the Texan keeps his young turkeys out of cold, rain, hot sun or tall wet grass. Direct hot sunshine is sometimes injurious, but moderate warmth as found in the shade, or moderate sunshine, is beneficial to the poults. The turkeys are always kept on dry ground. For parasites of all kinds, sodium-fluorid is used.

Geese as Grass-Cutters

A FLOCK of geese turned into the cotton-field of F. Kinsolving, A Hornersville, Mo., kept the grass exterminated. He says that geese are very effective in keeping the grass mowed down even with the ground.

Kinsolving says that he has cleared the grass from 2,000 acres by keeping 3,000 geese penned in his cotton-fields. His tract of land was badly infested with Johnson grass and he fenced it in and placed the geese in it. The first year the grass was entirely destroyed on the places where the geese were kept.

To keep them in good health, the geese were given a half-ration of grain at noon each day. But they should not be made fat, Kinsolving asserts.

He arranged a shade for them at the watering place, pumping water into a trough with strips nailed across it to prevent the geese climbing into it. The trough was kept clean by frequent washing. A small pool was made for the geese to paddle in.

GLASS CLOTH

Brings Amazing Success with Baby Chicks



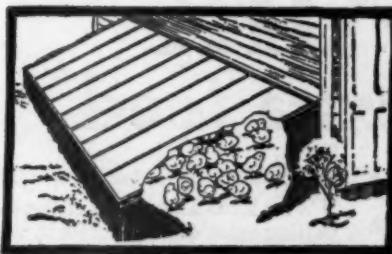
Prevents Rickets, Leg Weakness and Death Loss—Speeds Growth



FRED TURNER
Discoverer of Glass Cloth

For success with chicks NEVER keep them behind window glass. Glass stops the sun's ultra-violet energy rays, causing rickets, leg weakness, softness and death loss. This fact has been proved by science.

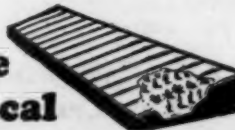
For ideal conditions put GLASS CLOTH in the windows and build a GLASS CLOTH scratch shed. The results will amaze you. GLASS CLOTH freely admits the sun's ultra-violet energy rays. Under it chicks thrive and grow at a remarkable rate. Rickets and leg weakness are unknown. Users have gone season after season without losing hardly a chick. They report unusual health and growth.



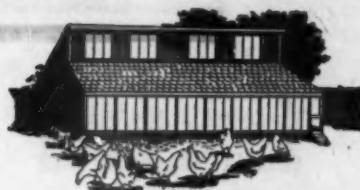
Baby Chicks Thrive in This Scratch Shed

The ideal way to give your chicks plenty of ultra-violet light is to put up large GLASS CLOTH windows across the sunny side of your brooder house, or to build a scratch shed as shown above. Even on very cold days it will be cozy and warm inside when the sun is shining. The chicks will run around and scratch, all the time absorbing ultra-violet energy. A scratch shed doubles the floor space. It is cheap and easy to build. All you need is a roll of GLASS CLOTH and a few scraps of lumber. Full directions given with each order. Try it. You will be more than pleased with the success you have with your chicks. Order the Special Trial Offer on the coupon.

Better and More Economical Than Glass for HOTBEDS



GLASS CLOTH is a cheap and durable covering for hotbeds. Costs but a small fraction as much as glass and gives far better results. Plants started under GLASS CLOTH mature early and produce big yields because GLASS CLOTH admits the life-giving ultra-violet rays of the sun. (Plain glass stops them.) Plants under glass grow tall and spindly reaching for these rays. Under GLASS CLOTH they grow strong and hardy. They do not wilt easily under the direct rays of the sun when transplanted. Market gardeners and florists all over the United States now use GLASS CLOTH instead of glass. GLASS CLOTH holds the heat of the sun and throws it to all parts of the frame. Try it on your hotbeds this year. Order now. Take advantage of the Special Trial Offer. Mail the coupon for a big roll today.



Brings Eggs All Winter

Big winter egg yields are easy to get. Simply put up GLASS CLOTH to admit the sun's ultra-violet energy rays. (Plain glass stops them.) Science has discovered it is the absence of these rays that makes hens quit laying in winter. But under GLASS CLOTH their egg glands take new activity. They lay like it was June, even in zero weather. All you need is a roll of GLASS CLOTH and a little lumber. Cheap and easy to put up. A big profit maker. Even if your hens have stopped laying they will start again. Act now. Let high winter egg prices bring you big egg money the rest of the winter.

Made Only by Turner Bros.

Genuine, durable GLASS CLOTH is made only by Turner Bros., under exclusive patents. No other concern can copy our process. Our patented weather resisting formula is your guarantee of complete satisfaction. Real GLASS CLOTH is a strong fabric specially treated to make it translucent, waterproof and weather-proof. Originated in 1916 and proven by 10 years success. So much cheaper than glass it has won wide popularity all over the United States and Europe.

SPECIAL TRIAL OFFER

We make this special low priced offer that you may try GLASS CLOTH and see for yourself the big profits it brings. Mail the coupon with \$5.00 and we will send you prepaid a big roll 45 ft. long and 36 ins. wide (135 sq. ft.)—enough to cover a scratch shed 9 x 15 ft.). You may order as many rolls at this price as you need. Use it for scratch sheds, poultry houses, storm doors and windows, hotbeds, etc. If, after 10 days use, you do not find it more satisfactory than glass or any other material, return it and we will refund your money. Common sense instructions, "Success with Baby Chicks" with each order. Catalog illustrating uses on request. Mail the coupon with remittance at once. (GLASS CLOTH is also sold by many dealers.)

Mail the COUPON!

TURNER BROS., Dept. 205
Bladen, Nebr. ; Wellington, Ohio
I enclose \$..... for which send me postpaid.....
rolls of Glass Cloth as advertised. If not satisfied
after 10 days use I may return it and you will refund
my money.
Name.....
Address.....
Town..... State.....

Remarkable Test Made at Ames Proves Benefits

As proof of the great advantages of GLASS CLOTH over glass note the results of this experiment made at Iowa State Agricultural College, at Ames. 25% of the chicks kept under plain glass died within four weeks and the remainder were a sickly, slow growing lot. But under GLASS CLOTH not a chick died. On the contrary they grew with amazing speed, making a much greater gain than the others.

Wherever tests have been made GLASS CLOTH has shown such superiority to glass that today it is recommended by experiment stations, experts, scientists and practical poultry raisers in all parts of the United States.

Just look at the two twin chickens shown here (taken from actual photograph), illustrating the ill effects of a lack of ultra-violet rays. The big hen had plenty of these rays, the runt had none. The big one grew into a fine, profitable hen. The little one had a hard struggle to keep alive. This is a vivid story of how GLASS CLOTH makes you money.



Effect on Profits

Dead chicks are money lost. Sickly chicks are money lost. If you want early broilers, if you want early layers, if you want to raise practically every chick and keep them in prime good health—just give them the ultra-violet energy rays of the sun by using GLASS CLOTH all through the cold months. GLASS CLOTH costs but a small fraction as much as glass and gives you nature's greatest health treatment for your poultry. It pays cash profits. It has helped to put the poultry business on a money making basis never before known. Removes many of the troubles and worries. Lowers cost of raising. Prevents chick deaths. Brings early maturity. In every way it pays.

TURNER BROS.
BLADEN, NEBR.

Write Nearest
Office

Dept. 205
WELLINGTON, OHIO

Copyright, 1927
by Turner Bros.

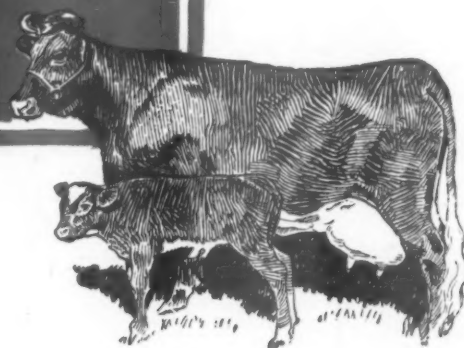
From ERNEST N. RAY, Pawnee City, Nebraska
"Am using Kow-Kare every day and think it fine. On three cows it increased milk production two gallons per day after they had milked six months. I also think it has improved the appearance of these three cows 50%. It doesn't cost anything to feed Kow-Kare."



From M. L. JOHNSON, Union, N. H.: "I have used Kow-Kare for several years and from careful study I believe in giving it as directed. It will increase the flow of milk from two to three quarts per day on each cow."

From FRANK P. ILLIG, Mohawk, N. Y.: "Kow-Kare is the best conditioner I have ever used and would not be without it. It has been a great help to me and I have prospered from its use not only by keeping my cows in good healthy condition but it has increased the flow of milk as well."

Extra Milk —without extra feed



Big milk yields in the winter months—when milk means money—are more a matter of assimilation than of forced feeding. The cow's ability to turn her feed into milk—without waste—is the real key to making money from dairying. When feed is wasted, money is wasted.

You can make every cow give her MAXIMUM flow of milk only if you enable her to digest and assimilate her food—FULLY—turn it all into milk. You can "step up" winter production just as a factory increases output. Thousands of dairymen do it, year after year,—with KOW-KARE.

Kow-Kare helps carry the extra burden of winter barn-feeding when heavy, dry feeds suddenly take the place of the more easily digested summer diet. The medicinal effect of this famous conditioner wards off

the cow ailments that sap your winter profits.

With Kow-Kare a part of the diet you are putting extra quarts of milk in the pail, and building health and vigor into the cow.

Kow-Kare really costs nothing to use. Its slight cost comes back many times over—via the milk pail. And sturdy cow-health results as a BONUS. A single can of Kow-Kare will ration a cow for one to two months, depending on her general condition of health. Feeding suggestions are on every Kow-Kare can.

For Cow Disorders

For all cow ailments arising from weak digestive and genital organs—Barrenness, Retained Afterbirth, Abortion, Bunches, Scours, Lost Appetite, Kow-Kare is a reliable home remedy. Keep it on hand always.

Use Kow-Kare at Calving

Kow-Kare, fed for two weeks before and two weeks after calving, makes the reproductive organs strong and vigorous. Cow and calf are definitely helped—disorders prevented. After once using Kow-Kare you'll never think of a cow freshening without this simple, inexpensive aid.

Write today for our valuable free book
on cow health, "The Home Cow Doctor"

DAIRY ASSOCIATION CO., INC., LYNDONVILLE, VERMONT

KOW-KARE

First Aid to Profitable Dairying

Kow-Kare is sold by feed dealers, general stores and druggists. Large size \$1.25, six cans for \$6.25; small size 65c. If your dealer is not supplied, we will mail direct, postpaid.

For Healthy Udders — Use Bag Balm

This wonderful healing ointment keeps udder and teats free from sores, chaps, caked bag, etc. 60c for 10 oz. can.





Grading Up Beef Cattle

IN 1912 W. R. Nelson, a lover of good livestock, bought a farm in Sni-a-bar township, Jackson county, Mo., and started a systematic breeding experiment that was to run for 30 years. On this farm Mr. Nelson put 200 common red cows, most of which were with calf.

The photos show just what has been done in building a high-class herd by mating common cows to purebred bulls. The two upper photos are purebred Shorthorn bulls that were used in the breeding work. The white bull was used up to 1922, and then the roan was put in the herd. These were not

a first-cross animal, out of an original cow mated to a purebred Shorthorn bull. This calf is compact and well-fleshed. The third calf (extreme right in third row) is a fourth-cross animal bearing 93¾ per cent Shorthorn blood. This is about the average of the

fourth-cross calves, and is a good type for beef—thickly fleshed, broad, smooth, blocky and compact.

At the bottom of the page are photos of meat from second-cross animals. The rib roast is from an animal 13 months old. The loin roast has a high degree of marbling, an earmark of good beef.



Two of the purebred Shorthorn bulls used at Sni-A-Bar farms



One of the original cows



A first-cross cow



A third-cross cow

the only bulls used, of course. In all, a score or more were used.

One of the original cows is shown, first in the second row. A very common cow, the type used on a great many farms for milk purposes. The cow to her right is a first-cross cow—the result of

Is it worth while, this grading up work? Most assuredly. And here's why. The calves sired by the purebred bulls have sold for more money than the calves of unknown breeding. In one case the first-cross steers brought \$1.75 per



The leggy animal, left, is out of one of the original cows. Below, first-cross calf from original cow by a purebred bull. Right, a fourth-cross calf



mating an original cow and a purebred Shorthorn bull. Note the evidence of Shorthorn blood. She is well-fleshed, blocky and beefy—much better than the original cow. At her right is a third-cross cow, carrying 87½ per cent Shorthorn blood. She is a blocky, deep-bodied, thickly-fleshed animal.

Now take a look at the calves in the third row. The first calf was dropped by one of the original cows, bred before she was bought by Mr. Nelson. It is leggy and rough—not the type for beef at all. The calf to its right is

hundred pounds more than calves of the common lot.

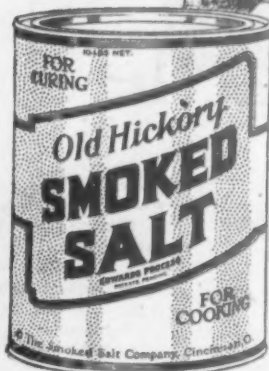
One must not expect that the third and fourth crosses will show equally marked improvement in market value. Improvement becomes more and more difficult as the number of top crosses increases, until the point is reached beyond which the use of only the most superior sires available will result in further superiority. But long before that point is reached, a herd of unusual merit will be produced and the owner will be satisfied.



These cuts of meat are from second-cross animals. How would you like to sample this meat? Note marbling of fat and lean—the earmark of first-quality beef



*"There's no shrinkage and
as for Flavor, it can't be beat!"*



Mr. Joe Clark, at Hugo, Colorado, cures his home butchered meat with Old Hickory Smoked Salt. He says, "Old Hickory Smoked Salt is a time saver. There is no shrinkage; the meat does not dry out; and as for flavor, it can't be beat. Comparing the smoked meat you buy in town and the Old Hickory Smoked meat, the Old Hickory is the best. I wouldn't think of going back to the old smoke-house method."

Of course, Old Hickory is a time saver and a meat saver. It smokes the meat while it is in the dry cure. All the time and labor and fire risk of the smoke-house are eliminated. You save the meat that is melted out by the heat of the smoke-house to drip into the fire. And flavor! Sprinkle a few grains of Old Hickory Smoked Salt in your hand; smell it; taste it. Use it in place of ordinary white salt

in your kitchen and on your dining table. That's the test! Pure table salt with genuine hickory wood smoke put on it by the Edwards process. Try it yourself and you, too, will never think of going back to the old smoke-house method.

At your dealers in air-tight, trade-marked, ten pound drums. Write for free sample and book.

THE SMOKED SALT COMPANY, INC., Cincinnati, Ohio



*Free
Sample
Coupon*

The Smoked Salt Co., Inc., 412-432 Culvert St., Cincinnati, Ohio

Gentlemen: Please send me free sample of Old Hickory Smoked Salt and booklet No. 432-E of suggestions for better methods of curing and cooking.

Name.....

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My Dealer's Name is..... P. O.....

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Milk
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Clipped Cows

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Stewart No. 1 Clipping Machine

Best made. Ball bearing. Easy running. Clips fast. Lasts long. Simple to use. At dealers' \$14.00 or send \$2 and pay balance on delivery. Guaranteed satisfactory or money back.

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Fits any tank. Burns 14 to 16 hours on 1 gal. kerosene. No sparks, ashes, smoke. Guaranteed. Write for Special Introductory Offer. We also make Hog Waterers and Portable Smoke-houses. Write for folder. Direct to use at factory prices.
EMPIRE TANK HEATER CO.
128 N. 7th St., Washington, Ia.

O. I. C. AND CHESTER WHITE BOARS. Bred gilts, Pigs \$8. each. No kin. Pedigreed. Profitable. Large kind. Booklet free. Prices reasonable. Start the boy or girl right with some registered stock.
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Horse works while being treated—no risk, no big bills, no wasted time!

SAVE THE HORSE

is sure, home treatment for spavin, thorpin, curb, splint, or shoulder, hip, tendon or hoof trouble—or any other lameness. Results are guaranteed!

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Lower-Priced Hogs in 1927?

By A. L. Anderson

LAST year's crop, even though carried to much heavier weights than the preceding year, has been absorbed without disrupting the market. A very favorable corn-hog ratio stimulated production and the intention to breed for fall litters showed an increase.

It is a question just what the late-winter market will be. The larger-than-usual fall crop naturally would cause a decline in prices. Some predict \$9 and \$10 hogs in the late winter, probably March.

The supply of corn marketed influences the production of pork, and very often the corn-hog ratio is used to picture price relation. On the basis of farm prices, 100 pounds of hog would buy 18 bushels of corn last July, but one month later it would pay for 15 bushels. This is a wide margin, and the length of time between wide margins is from four to six years, rather indicating that a favorable ratio will prevail for some time. The last narrow ratio was in July, 1924, and the last wide ratio was in February, 1922. With a smaller average yield from a slightly lower acreage, we would expect a narrower ratio on current market prices, not so favorable to selling of corn in the form of live hogs. In that case, light-weight hogs would be sold and less lard produced.

The production of pork in 1925 was the lowest since 1921. This followed on the heels of the very heavy production in '23 and '24. Higher hog prices and cheaper corn were chiefly responsible for our heavy production at that time. It appears that we are now passing a somewhat similar period in the hog cycle. When the produce of our expanded hog population comes upon the market, lower market prices will result.

In general, the 1927 outlook is not so rosy, but with efficient rations, good stock and careful management, hogs can still continue as "mortgage lifters."

□ □

Sheep profits are greatly reduced if burs get in the fleeces. Winter is the time of year when sheep gather the most cockle-burs with their wool. Cockleburs are ripe and ready to leave their stems at the lightest touch. Corn-fields and stubble-fields are being pastured, and cockleburs abound in many corn-fields and stubble-fields. Do not pasture the fields if they contain cockleburs. Fences may contain enough burs to injure your wool seriously, even though the cultivated portion of the field may be free of burs.
Wyona I. Cox.



Rooster: "Mr. Pig ought to reduce."
Duck: "Yes. He's a perfect example of what the daily doesn't will do for one"

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ONE YEAR
TO PAY**

Brings you any size New Butterfly Cream Separator direct from factory. Machine earns its own cost and more before you pay. We quote Lowest Prices and payments as low as
ONLY \$3.50 PER MONTH
No interest—No extras. Every machine guaranteed a lifetime against defects in material and workmanship.
30 Days Trial on your farm at our risk. Nearly 200,000 in use. Easiest to clean and turn.
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ALBAUGH-DOVER MFG. CO.
2102 Marshall Blvd. Chicago, Ill.

**EASY
TO
CLEAN**



Milking Theory Gets a Jolt

By L. S. Richardson

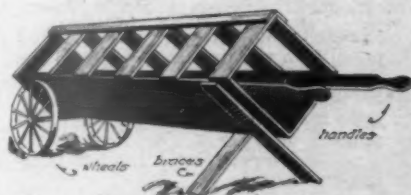
LIVESTOCK experts have quite generally held that milk is manufactured by the dairy-cow while she is being milked, basing their theory largely on the assumption that a cow's udder is not big enough to hold the large quantities of milk produced by many cows at one milking. W. W. Swett, of the United States Dairy Bureau, recently conducted a novel test in which he proved that a cow's udder will hold from three to five gallons of milk, instead of a mere half-pint to each quarter, as is generally taught.

For the tests, two cows that had outlived their usefulness in the government herd were killed. Their udders were immediately severed from the body and mounted on a framework in a position for milking. One of the cows had been giving normally about twelve pounds of milk at a milking. Her post-mortem milking, which was conducted at the regular milking time, yielded 10.27 pounds of milk, or approximately 85 per cent of her normal production, showing that this amount of milk at least was stored in the udder at the time she was slaughtered. Post-mortem milking of the second cow yielded about half of her normal production. All of her milk was not drawn, however, due to the difficulty of the operation, and this fact was indicated by the quantity of milk that gushed forth when the udder was later cut open.

A further indication that a cow's udder will hold an enormous amount of milk is the fact that Mr. Swett was able to inject into the udder through the teats an amount of fluid equivalent to from three to five gallons of milk. Formalin is injected into the many udders he prepares for laboratory study.

□ □

Portable Feed-Rack



A farmer I know built a feed-rack on wheels so that it could be wheeled to the barn for refilling. It was so made that even when full of hay, it could be moved about over soft ground with little effort. It was used in the yards where several head of sheep were confined.

The lower portion was made from two wide boards eight feet long, nailed together to form a large trough. A pair of boards, held together with cleats, filled one end and also served to support the ridge-pole, which was made from two 1 x 4-inch boards. These boards held the slats, which extend down on each side, in place. Two braces, nailed on as shown, and two others to form the handles, completed the wood work of this rack. The wheels were attached to a length of pipe. H.



Look! What this New De Laval got out of our skim milk.

THESE people were surprised to see a new De Laval Separator skim a quart of rich cream from a can of their skim-milk. They thought their old separator was doing good work, but the new De Laval proved it wasn't. Satisfy yourself that you are not losing cream in this way. Ask your De Laval Agent to bring out a new De Laval and try this simple test:

After separating with your old separator, wash its bowl and tinware in the skim-milk. Hold the skim-milk at normal room temperature and run it through a new De Laval. Have the cream thus recovered weighed and tested. Then you can tell exactly if your old machine is wasting cream, and what a new De Laval will save.

The new De Laval is the best cream separator ever made. It is the crowning achievement of 48 years of cream separator manufacture.

SIZES
Hand-Electric-Belt
650 to 1430 DOWN
Balance in 15
Easy Monthly
Payments

Guaranteed to skim cleaner

The new De Laval has the wonderful "floating bowl"—the greatest separator improvement in 25 years. It is guaranteed to skim cleaner. It also runs easier with milk going through the bowl, and lasts longer.

Send coupon below for name of your De Laval Agent and free catalog.

SEE and TRY the New De Laval

TRADE in your old Separator

The De Laval Milker

If you milk five or more cows, a De Laval Milker will soon pay for itself. More than 35,000 in use giving wonderful satisfaction. Send for complete information.

See Your
De Laval
Agent



Send coupon below for name of your De Laval Agent and free catalog.

THE DE LAVALL SEPARATOR COMPANY, Dept. 1631
New York, 165 Broadway Chicago, 600 Jackson Boulevard
San Francisco, 61 Beale Street

Send catalog checked — Separator ☐ Milker ☐
Name _____ Town _____ State _____ No. Cows _____ R.D. _____

As low as \$10



H. & Z. Wood Saws

Lowest priced, most practical for farmers. Saws, firewood, lumber, posts, etc. Shipping table can be attached. Money-back guarantee—backed by \$10,000 bond. Write, FREE CATALOG all kinds saws, engines, feed mills, Ford & Fordson attachments, etc.—direct to you at lowest factory prices. H. & Z. Concrete Mixer—lowest priced with Babbit bearings.

HERTZLER & ZOOK CO. Box 32 Belleville, Pa.

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WAGONS STEEL WHEELS

Low steel wheels (plain or grooved wide tires) make loading and hauling easier. Steel wheels to fit any axle; carry any load. Make any wagon good as new. Reduced prices Catalog Free. Wfg. Co., Box 55 Quincy, Ill.



MILKS 18 to 40 COWS an HOUR

ONLY \$35

Puts it to work for you. Costs nothing to install

Ready to start soon as uncrated—Comes complete with 2 HP engine or electric motor. No extras to buy—No installation cost. Saves hours of work—equal to four milk hands.

Milks 2 to 4 cows at a time—clean—convenient. Milks just like the human hand—Easy on cows. 10 year guarantee. Used and endorsed by hundreds of dairymen and farmers.

Comes Complete—Ready to Use

"The Board of Health Inspector said my Ottawa was the first milker that he had ever run across that could be kept clean. I cannot say too much for the Ottawa." D. C. Cook, Route 4, Canora, New York.

30 Days Trial

FREE Our book—"The Truth About Milkers"—tells you all about it—illustrated—answers every question—Free—Let us send it to you. A Post Card will do.

OTTAWA MFG. CO., 124 White Street, Ottawa, Kansas
124 McGee Bldg., Pittsburgh, Pa.





Begin Raising Two-Ton Litters

Read this statement as received from A. T. Sanders, Lancaster, Ky.

"You have read in leading papers of our World's Record two-ton litter of 12 pigs weighing 4,323 pounds in 180 days, produced on our farms and fed on Letz-Dixie mixed feed. We now have 300 Big Type Poland Chinas being fed according to the 'Letz System of Home-Crop Feeding.'"

Write today for your copy of "The Feeder's Own Book of Facts," and read how 40,000 Letz-Dixie Users have proved this simple feeding method yields two to four times the average pork, dairy or beef profit.

Letz Mfg. Company, 141 East Road, Crown Point, Ind.

LETZ-DIXIE MIXED FEED MAKER

What Thousands of Farmers Say the Letz-Dixie Will Do For You

- 1 Will increase animal production 15% to 30%.
- 2 Will require only 50% to 75% as much feed crops.
- 3 Will save 25% of your present labor cost.
- 4 Will release 25% to 60% more acreage for cash crops.
- 5 Will improve pork quality, increase the quantity, and shorten the period of pork production.



Sore Teats

mean a sure loss of milk flow—a loss that need not be tolerated for even one milking. Bag Balm, the great healing ointment, will quickly heal any cuts, chaps, cracked teats, inflammation of the udder, caked bag, bunches—in fact any injured condition of these delicate tissues.

Bag Balm penetrates quickly, brings brisk circulation, begins healing at once. Easy and pleasant to use; cannot taint the milk. Bag Balm has scores of emergency uses on the farm. Don't be without it.

Big 10-ounce package, 60c, at feed dealers, general stores, druggists—or by mail from us, postpaid. Booklet, "Dairy Wrinkles," free on request.

DAIRY ASSOCIATION CO., Inc.
Lyndonville, Vt.



MADE BY THE KOW-KARE PEOPLE

SHOE BOIL, CAPPED HOCK



or bursitis are easily and quickly removed without knife or firing iron. Absorbine reduces them permanently and leaves no blemishes. Will not blister or remove the hair. Horse worked during treatment. At druggists or \$2.50 postpaid. Horse book 6-8 free.

Surprised user writes: "Horse had largest shoe boil I ever saw. Now all gone. I would not have thought that Absorbine could take it away so completely."

ABSORBINE
TRADE MARK REG. U.S. PAT. OFF.
W. F. YOUNG, Inc. 353 Lyman St., Springfield, Mass.



Heaves, Coughs, Conditions, Worms. Most for cost. Two cans satisfactory for Heaves or money back \$1.25 per can. Dealers or by mail. The Newton Remedy Co. Toledo, Ohio.



The Feeder's Own Book of Facts



Goats, Calves, Horses, Swine, etc.

ONE brood sow made \$300 over cost of feed for Nick Moore, Jefferson county, Tenn. The sow farrowed 15 pigs, nine were saved, and they weighed 2,472 pounds when 180 days old. Their feed cost \$7.95 per 100 pounds. Nick won some prizes on the litter at the fair, and these, with the check for the pigs, brought the total income from the sow to above \$500. Have you tried the ton-litter method?

Triplet calves were produced on Fairview Farms, at Jenera, Ohio, last summer.

Sir Sidney Smith set up in his barnyard what he called a "universal scratcher." You can make one for your cattle by setting a post down deep in the earth, boring it full of holes and driving in pegs set at various angles on which animals, big and little, can scratch their distressed cuticles.

A new milk test for Holstein cattle has been authorized. It is a one-day-monthly official test.

Pigs farrowed in the open field in May on the E. C. Lippincott farm in Washington county, Nebr., go to market in January weighing 300 pounds each. A central hog-house is not used. Self-fed tankage and hand-fed corn, all they can eat, along with plenty of skim-milk, are real essentials, says Lippincott.

Feeding of swine—self-feeding compared with hand-feeding—all about it in Farmers' Bulletin 1504, free from your Senator or Representative in Congress, or from the Department of Agriculture, Washington, D. C.

Here is our experience—part of it—with Anglo-Nubian goats. On January 19, 1926, a large doe dropped five kids—three does and two billies—all lively and well, but small. Then on June 20, 1926, she gave birth to three kids—two does and one Billy. We find the goats are wonderful brush-killers, and although we have a full-blood Jersey cow, we use goat's milk for drinking. J. W. T. (September Farm Journal) did not take in too much territory about their milking qualities. They are the poor man's friend and the rich man's necessity, as health goes.

Ralph Murdock.

"Louie" and "Queen," pulling 2,925 pounds on the drawbar of the dynamometer at Beaver County Fair last September, broke the Pennsylvania state record for teams weighing 3,000 pounds or more. The new champions are owned by a lumber company at Beaver, Pa.

A good living and 10%

An acquaintance of mine in Ross county, Ohio, made some easy money in this way: He bought up old cows that were offered at early-winter sales and gave them plenty of ensilage and other milk-producing foods. Then he watched the countryside for baby calves that the owners didn't want to bother with. He got the calves rather cheap, also. Then he made the old cows raise the calves up to veal age. He sold each calf as it reached that stage, and as he sold off the young stock he kept buying more and followed the same process as long as the cows were producing milk.

R. V. J.

I Learned this Priceless HARNESS SECRET From a Pail Handle



John C. Nichols, President

\$5

Down after 30 Days' Trial; Balance Easy Monthly Payments

To prove my claim that Wear-More is the strongest harness made, let me send you any style you select for 30 days' service on your own team. Test it in every way. I take your word for it if not then convinced. Simply return it at my expense. Write today for big, free book, with new reduced prices. See how I've done away with rubbing and see-sawing between leather and metal. Doubled wear right here! Learn how short-sneubling of leather under buckle edge or around narrow metal units costs you money in break-downs and repairs. See how I overcome this—how I learned this priceless harness secret from a pail handle. Believe you owe it to your pocketbook to investigate, at once, this marvelous advance in harness-making and harness value.

JOHN C. NICHOLS, Pres.
1832 Erie Ave., Sheboygan, Wis.
John C. Nichols Co., Also Originators and Makers of Fittell Collars
Belt 1926

Free Book on Bigger Value Harness

See strap above—how all was squeezed out, fibers packed and strap crushed till ready to break in two. Like carrying pail with wire handle. None of this in Wear-More! Patented protecting buckles let leather pull against big, broad surface, just as well protected as your hand around the large, comfortable wooden handle on a pail bail.

WEAR-MORE

1 year to pay after 30-day trial
American CREAM SEPARATOR

Brand new models, vastly improved. Unexcelled by any in World for close skimming, easy turning and convenience. Quick cleaning Bowl is Sanitary marvel. Skims warm or cold milk. Makes thick or thin cream perfectly. Seven sizes, from 850 lb. to one-cow size. PROMPT SHIPMENT FROM POINT NEAR YOU. Factory prices as low as \$24.95. Easy Monthly Payments low as \$2.20.

Write for FREE Catalog
Tells about our sensational money saving offer: our low prices, free servicing and new models. Write for it TODAY.
American Separator Co.
Box 33, Bainbridge, N. Y., or
Box 33, 1929 W. 43d St., Chicago, Ill.



Don't Ever Do This



THE accompanying photograph tells the story of a young man who did. He and a young lady friend were out driving one night in his father's car. The night was very dark and they were riding along a lonely road when suddenly the lights went out. A startled cry came from the girl's lips as the squeaking brakes brought the car to a sudden stop.

"Oh, Bob, what's the matter with the lights?" inquired the girl.

"Just burned out a fuse, I guess," Bob replied.

"But have we got another fuse to fix it up with?" she asked.

"No, Fern, we haven't, but I can fix it anyway. You know I'm pretty good at fixing things in a pinch," he advised her, trying to carry an expert air.

He hunted through the tool-box in the dark and finally found a short piece of copper wire. This he connected across the fuse block so as to complete the circuit which had been opened by the melting of the fuse. Again the headlights burned brightly, and the car proceeded on its way.

"Oh, Bob, you are a perfect wonder," laughed the girl as she nestled down in the deeply padded seat beside the would-be electrical expert.

Short Circuit Caused Fire

They had traveled almost a mile when a rank-smelling smoke met their nostrils; then suddenly a tongue of flame shot up through the floor beside their feet. In a moment the whole underside of the car seemed to be ablaze. With a terrified scream the girl leaped from the car. Bob headed the burning car toward the ditch and also jumped. In a few minutes the whole car was destroyed.

Everybody should bear in mind that a short-circuit is a dangerous thing, unless the electrical circuit is protected by a fuse. A short-circuit causes a sudden and uncontrollable rush of current which generates intense heat in the wiring circuit, and unless the wire burns off somewhere, fire will result. The fuse is made of soft wire which melts before any dangerous heat is generated, and therefore opens the circuit before any harm is done to the car or its occupants.

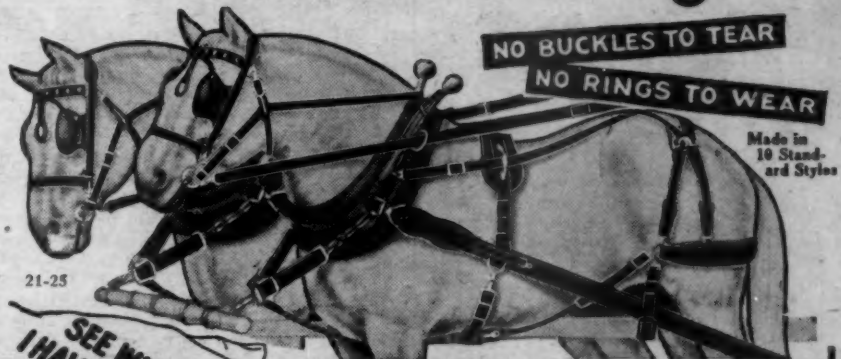
In case you should have a short-circuit in your car, don't do what Bob did, but hunt it out and tape it well, then do not put anything in the fuse block but a fuse of the proper size. This little fuse is for your protection and should not be overlooked.

Harold Jackson.



"I wonder whoever left that sign right in the middle of the road"

An Amazing Advance In Harness Making



21-25
SEE WHAT I HAVE DONE AWAY WITH

Walsh NO-BUCKLE HARNESS

So successful has Walsh No-Buckle Harness become that others now try to imitate it, but the fact remains that the Walsh Harness with its 40 patented exclusive features, backed by 10 years of

experience of tens of thousands of satisfied users, leads them all. I'll be glad to send you a copy of my interesting book free.

The Walsh is an amazing advance in harness making—easy to see why it is three times stronger than buckle harness—a better looking harness, easily adjusted to fit any size horse.

The old method of making harness punched full of buckle holes—with rings that wear straps in two—with buckles that tear straps, is rapidly becoming a thing of the past.

30 Days' TRIAL

ON YOUR OWN TEAM

Besides making a new and better harness I have worked out a new and better way for you to buy harness. Instead of hanging the harness up in stores and harness shops, I send my harness direct to you on 30 Days Trial.

Send for my free harness book with 100 pictures, using either coupon below or postal. **Send No Money.** Pick out the style harness you would like to try. I will send it to you at once. Try it on your own team for 30 days. Then, if you are not entirely satisfied simply send it back at my expense. By this method the Walsh must sell itself to you or you don't have to keep it.

BUCKLES

About two-thirds of the strength of a strap is lost by pulling from a buckle tongue. Official tests explained in my free book prove this. A set of ordinary harness has 68 buckles. Walsh Harness has no buckles.

RINGS

The constant rubbing and see-sawing of straps against metal rings wears the straps in two, causing early repairs, destroying the harness. Ordinary harness has about 275 places where there is ring friction. Walsh Harness has no rings.

HOLES

By pulling from a hole in a strap you lose about two-thirds of the full strength. A set of ordinary double harness has about 275 holes in the straps. Walsh Harness has no holes in straps. Easy to see why it is three times stronger—lasts longer, hence costs less.

BILLETS—LOOPS

The loose strap ends (called billets) are hard to put in loops or take out of loops, particularly when it is cold or dark. A set of ordinary harness has about 70 billets and 100 loops. Walsh Harness has no billets, no loops—therefore easier to put on or take off, easier to adjust.

INVESTIGATE—POST YOURSELF

Get the facts. My free book gives you all details of this wonderful harness—gives letters from hundreds of satisfied users in every state. **Send No Money**—not a cent down until you have convinced yourself that the Walsh is the harness you should have.

\$5

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BALANCE—EASY MONTHLY PAYMENTS. A convenient way to buy harness. The most interesting and instructive book on harness ever written is yours Free! Just tear off and send your name on coupon below or postal card.

Will also send particulars of my co-operative plan. Make money showing Walsh Harness to neighbors.



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Send No Money—Mail Coupon

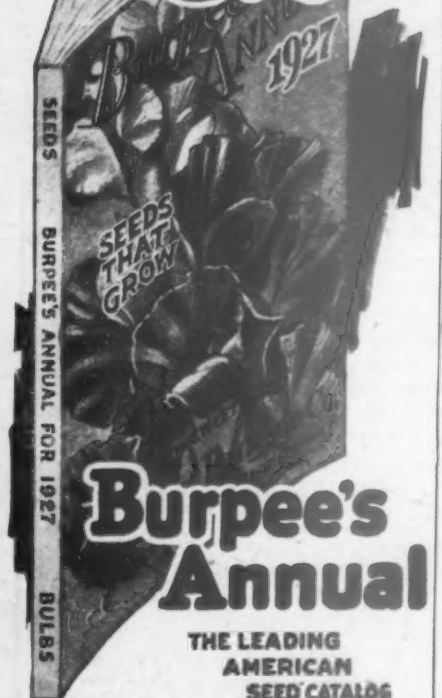
James M. Walsh, JAMES M. WALSH CO.
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Send me, free of charge, Walsh Harness Book, trial offer, liberal terms on Walsh Harness.

Name _____
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State _____ R. F. D. _____

Write
Mail Coupon
Today for
FREE BOOK



Burpee's Seeds Grow



**Burpee's
Annual**
THE LEADING
AMERICAN
SEED CATALOG

For Your Flower or
Vegetable Garden

Large, handsome vegetables and flowers fit for prize exhibits will fill your garden when you plant Burpee's Seeds and care for the growing things as directed in Burpee's Annual.

Study Burpee's Annual and you can't go wrong. It describes all the plants in which you are interested together with four striking 1927 novelties—Burpee's new Sweet Corn, new Tomato, new Dahlias and new Sweet Peas, with special instructions for their planting and later care. Mail the coupon below for a Free Copy.

Prompt Shipment
and Quick Mails
Make us your
next door
neighbor

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Better-Looking Home Grounds

By Adolph Kamis

IN landscaping a farmstead, or any kind of a residence, for that matter, there is no set rule which a person can follow, especially if the buildings and the various architectural features are already in existence. The permanent buildings may not be exactly in the place where a landscape architect would like to see them, and one must base his landscape plans on existing conditions. Minor buildings, such as woodsheds, or dilapidated buildings that have outgrown their usefulness, can readily be moved to a more appropriate place, or done away with altogether. Clearing the ground will give the planter more available room for his designs.

There are three things in a well-planned farmstead—a public area, a private area and a service area. These are not always divided by plantings or permanent fixtures, nor is it advisable to have them so except in rare occasions. In most instances these areas are separated only by imaginary lines or by planting arrangements that suggest a possible division.

Keep the Lawn Open

The public area, as it is often called, is naturally in front of the house. Here will be the lawn, for a nice green carpet of grass catches the eye of the passer-by almost instantly. If there are shade-trees of a desirable type already planted and well located, so much the better; if not, plant a few. The prevailing idea should be to keep the lawn as open as possible and free from any plantings that may tend to break up this openness.

"But where do the shrubs come in, if not in this area where they can be seen

want to read the Sunday paper. Here, too, the lady of the house may want to take her sewing or spend the afternoon with the children. The furniture of this area may be of wicker, or quaint home-made chairs may adorn the place. Often architectural features of stone may be included. These may be in the form of benches, bird-baths or gazing-globes, and are all in very good taste for the private area.

Irregular Lines

The plantings of the outdoor living-room should be such that they afford as much privacy as possible. This can be



Well-planted home grounds as seen from the highway

attained by arranging your plantings in bays and peninsulas, so to speak. The bays would be in the corners and the planting-bed should gradually enlarge as it extends along the sides, taking care that all lines and curves are natural and graceful.

Wherever there is an indentation in the planting-line, the material going into the bed should be comparatively smaller in size than that planted in the wider portion of the bed. Also, the farther end, or the back of the bed, should have taller plants than the edge, so that a gradual rise or hill is created whereby all plants can be seen to best advantage. In this area, annuals and perennials can be used quite extensively, as they are very appropriate and can also produce cut flowers. Both



Glimpse of the private area (back yard) of properly-planted home grounds

by the public?" you may ask. Let me say that the public in general is not interested in any specimen plants that you may wish to display. These can be found in parks or in arboretums. The eye of the autoist or the pedestrian sees a picture of the whole as it is assembled by the artist. Where the painter uses a canvas for a background, the landscape designer uses a background of grass. Upon this background he arranges his trees, shrubs and flowers, in masses, in clumps or sometimes as single specimens where the occasion permits. Arrange these materials around the base of the buildings, by the fences or in corners. Here their mass effect will be more striking and will leave your lawn open, thus giving it a spacious appearance and making it easier to take care of.

This public area will gradually merge into the private area. This is what is rightly termed the outdoor living-room, and the atmosphere about it should be that of quiet repose and contentment. It is here that on pleasant days the menfolks



Private, public and service areas are more or less separated

may be planted on the edge of the beds, where they will conceal the legginess of the taller shrubs and at the same time make a neat border for the bed.

The service area will be that portion of the grounds which can be termed the back yard. Here are the garage, woodshed and the necessary driveways. The clothes-line, too, will be found here; the back door and the outside basement door, both opening into this area, will make the house available for anything that may be going on in connection with the outside. Screen the service yard from the other portions of the lawn if it is at all possible. You can do this by planting tall-growing shrubs such as lilacs in front of objectionable views. As a rule, these tall-growing shrubs are coarser in their foliage and general appearance and will fit in quite well in the back yard.

« «

New Varieties of Vegetables

Two years ago, I bought from an eastern seedsman a new variety of tomato, known as "Crimson De Luxe." A Michigan dealer was listing for the first time the "Northern Prolific," so I got a package of that. My local store had what they termed "Red Beauties," and I was persuaded to try them, also.

These seeds were planted and cultivated according to directions. The foliage was similar in appearance, but not until marketing time did I discover that I had three separate patches of the same variety. This not only caused annoyance and waste of ground, but on a large order it would have meant a loss of several dollars.

The same mixup holds true with other vegetable seeds and plants; so before ordering the newest things in a catalog, I now make it a point to use a stamp and get additional information. A variety often parades under a dozen different names. Such titles as "De Luxe," "Supreme," "Superb," "Tip-Top," etc., should be viewed with suspicion, as they mean nothing to a buyer.

I insist on knowing the history of a variety. The seedsman must show me how it differs from other new stuff being placed on the market.

F. R. C.

« «

Mulching Berries with Fertilizer-Bags

Old fertilizer-sacks come in handy on our farm. We lay the sacks along each side of the rows of strawberry plants, with edges close to the plants and parallel to the rows. The sacks are more easily placed if they are wet. To hold the sacks in place, use galvanized wire, bent into "U" shaped pieces, with the opening about two inches across and five inches long. These are inverted and run into the soil, using one in each corner of the sack.

The fertilizer-sacks serve several purposes. They keep down weeds; they tend to prevent the production of runners between rows; when it rains they lessen the amount of mud splashed on the berries; and if sacks are used immediately after they are emptied, the soil receives the fertilizer that is washed out by rains. This method of caring for strawberry plants seems to us ideal for use on a small scale where straw is unavailable.

If there are only a few hundred plants in the garden plot, the use of burlap is more desirable than bothering with straw, we find.

Albert Davis.

« «

Fruit-growers who have trouble getting a set of fruit should get hold of a copy of Bulletin 434, New Jersey Experiment Station, New Brunswick, N. J. This gives results of tests in New Jersey to find out whether bees in the orchard help in pollination. The reports are favorable to the bees.

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Painesville, Ohio

The Way of My Oxalis

By Gertrude Shockey

AS I look at my clean, healthy, green
oxalis now, covered with dozens of
cheery pink little blossoms, the words
"strength grows out of our weakness,"
come to my mind. For months and
months it just hung there in our sunny
bay window, limp and forlorn, straggling



In a short time it was radiant

yellowed leaves with not a trace of blossoms. It refused absolutely to grow as it should.

One drear spring day I saw some busy little ants caravanning down the curtains and across the wires of the basket. Curious, I got up to see what they were doing. I lifted some leaves—a whole bevy of ants scurried away. I took out the pot and swarms of ants then greeted my astonished gaze. I couldn't have them infesting the house like that. Because I could think of no better way to vanquish them, I deluged the whole thing with quarts of scalding hot water.

I thought I had killed my oxalis, surely, so I left the bulb, freed from all ant-infested soil, neglected upon an outside bench. In a few days it showed signs of life. I repotted it, and in an incredibly short time it was radiant—loaded with lovely blooms.

[Be careful about using hot water for ants—you may kill the plant, too. Better buy a remedy that will be safe to use for ants on all plants. There are several on the market.—Editor.]

Frozen Cherries

Freezing did wonders in selling cherries last year in the Ontario region of New York State. At the Sodas Fruit Farm, Sodas, N. Y., is an orchard of 30,000 cherry trees. These trees produced 1,300 tons of cherries. As soon as these cherries were picked they were hastened to huge concrete vats filled with cold water, to remove the heat. From these vats they were put upon a moving belt for sorting, after which they finished up in the pitting machines. From the pitting machines they fell into 30-pound tin cans. Dextrose sugar was placed on top to preserve them. After the tops were put on they were forwarded to the storage barns. These cans were then removed to the cold-storage bins, where for four days they were subject to a temperature 15° below zero. These cherries are kept frozen until they are ready for delivery to the customer.

R. J. Waldo.

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Insure Against this
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New Fern Plants

HAVE you noticed the tiny spots in regular rows on the underside of fern leaves? These spots are very vital to the plant, for they are spores, or what pass as seed.

As your fern grows, you may wonder how to obtain other ferns from the large plant. This can easily be done by the method shown. Select a branch which you feel is not necessary and bend it down over a pan of rich garden soil. A few hair-pins or small staples will hold the branch against the soil. Be sure that the undersides of the leaves are in contact with the soil.

Leave in this position for several days and you will be surprised at what happens. Soon tiny new ferns will begin to grow in the fresh soil. When they have taken root, snip the old branch from the big fern. It will soon rot and dry up. In its stead will be a number of tiny ferns which a little later can be planted where you wish.

If the branch is bent too far down, so that the stalk breaks, this will cut off the sap supply and kill the branch before the new ferns have taken root. H.

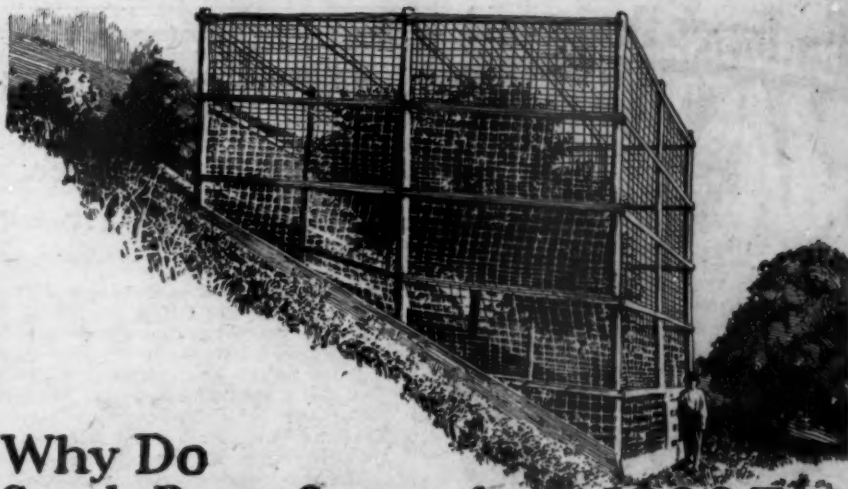
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Our Strawberry Bed

We started with strawberries just two years ago this fall, setting out 300 Dunlap plants and 500 of the everbearing variety. The following summer we kept the runners laid over in the row, so as to get them set thick in the row, as the original plants were set two feet apart. By fall we had well-set rows 18 inches wide. We kept the space between rows clean of plants and weeds, setting out the new plants to increase the size of our patch. The first summer after planting we had strawberries fresh all summer from the everbearing plants, besides selling \$60 worth on the market and making enough jams, jellies and canned berries to do a family of nine. Last year we picked a few ripe ones April 25, about two weeks ahead of ordinary varieties. We live in Neosho county, Kans.

We keep the plants cultivated the first year until they become thick, wide rows. Then we have only the middles (about two feet wide) to cultivate. The third year, we let the plants run out between the rows and set solidly, then late in the fall break up the old row with plow or lister and have a new patch on new ground good for three years more. The plants get too thick and sod-bound, and berries decrease in size, if this rule is not followed.

For family use I prefer the everbearing variety because we have fresh berries all summer. But for market I would advise at least one-half be spring-bearing varieties, because they are larger, and during their bearing period you can not sell the everbearers so well. But out of season the everbearers will bring 25 cents a quart in our markets. J. S.



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Stark Bros. paid the record price of \$5000 for this original Golden Delicious tree—recognized as the parent of the most promising apple on the market. They could not afford to take any risk with this valuable tree. So to protect it against man and beast, they enclosed it in a burglar-alarm cage. And to protect it against scale and every other pest controlled by dormant sprays, they spray it every year with Scalecide—the complete dormant spray. Can there be a more expert endorsement of Scalecide?

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10¢ BARGAINS

To further convince you I quote here a few of the many Bargains found in this catalog. FRUIT, TREES, SHRUBS, 3 for \$1.00; ROSES, Rambler, assorted, 4 for \$1.00; LARSENBERG, red or black, 20 for \$1.00; SNOWBARK, white or red, 10 for \$1.00; BRIDAL WREATH, 4 for \$1.00; PELOS, mixed, 7 for \$1.00; LILIES, 12 for \$1.00; JACK PINE Seedlings, 3 year, av. 8 to 12 in. high, 25 for \$1.00. Any six for \$5.00.

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Best varieties, 1-year, well rooted and thriving growing, for only \$1.

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Home Mixing of Fertilizer

By G. T. Powell

SOME farmers claim that there is nothing saved by mixing fertilizers at home, and that when they do mix at home the fertilizer is likely to be lumpy or damp and not in the good physical condition that it is when factory mixed. We have mixed our fertilizer for years here in Nassau county, N. Y., and find that we not only save money by so doing but that the fertilizer is always dry, in fine drilling condition, and on an average in better condition than the factory-mixed goods, due to the fact that we use a proper amount of finely ground tankage or fish scrap, which acts as a drier.

We began to home mix co-operatively during the war. Fertilizer prices were high and we wanted to know just what was being put in our fertilizer, as unquestionably some of the mixed goods are made from low-grade material and the analysis is kept up by using a lot of nitrate of soda or a small amount of very high-analysis material. When we home mix we know just what goes into the mixture. We buy the very best grade of nitrate of soda, sulphate of ammonia, tankage, muriate of potash and acid phosphate—all on a guaranteed analysis—and we frequently have it analyzed again at our expense to check up on the sellers.

Of course, when you first start, the fertilizer agents will tell you it won't drill, it won't grow crops, and many other things. If you go at it right, you will succeed.

First you must get the right mixture. Then, in order to save money, you must buy in straight car-lots of each material, and for cash. There is your keystone.

Watch the Market

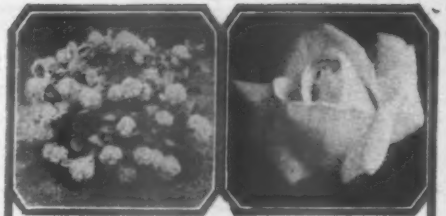
Next, your buyer must know something of materials, and of doing business, and of getting on with people. As manager of our co-operative since its beginning, I keep in touch with the market, and sometime in the month of November I send out a circular letter to our members, with an estimated price for the various materials, setting a date for orders and checks to be in.

As the checks come in they are deposited. With the cash in hand and the total tonnage, I communicate with eight or ten different brokers and tell them that on a certain day and hour bids will be opened at the farm bureau office for a certain number of tons of the different materials, and the grade and analysis required. The bids are opened by myself and the county agent, and the contract for each material is given to the lowest responsible bidder.

I then assemble the orders for the different materials for shipment to central points, and send in the shipping instructions. The goods are shipped sight draft, bill of lading attached, generally with inspection allowed before paying the draft, to be sure the goods are in good mechanical condition. This is especially necessary in the case of acid phosphate, which should be contracted for to be milled, screened and in good mechanical condition, as it sometimes is lumpy and in that case should be refused.

Our nitrate is bought ex-vessel New York City, as it comes direct from Chile. It is put on a lighter and even-weighted, 167 pounds per bag, and loaded direct in cars from the lighter by slings.

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Dept. 41, Rockford, Illinois.

the coke ovens in Pennsylvania direct to our station, in 200-pound bags. The tankage is mostly made in the vicinity of New York, Long Island City or Jersey City. It is shipped direct in 100-pound bags.

The potash is bought ex-vessel New York Harbor just as it comes from France or Germany—lighter and loaded in cars direct and shipped in the original bags, 200 pounds each.

Materials Come Bagged

The acid phosphate comes direct from the manufacturer in Baltimore, Philadelphia or vicinity. We have it put in 125-pound bags.

In the distribution the acid phosphate is easy, as that is half the total tonnage. Each member uses a carload or more of that. With the other materials, we may have a dozen men for a car. That is especially true of sulphate of ammonia, as some farmers use only 100 pounds per ton. I call the men up the night before and some one has to be on hand to check it out.

At the end of May we wind up our season's fertilizer work and rebate to each member a check for the difference between the estimated price and the actual cost. During the war when prices were very jumpy, we had to play safe and one year on a tonnage of 2,000, we rebated about \$9,000. In 1926 we figured much closer and sent out a rebate of about \$2 a ton.

These materials come from the ends of the earth, and if they were all shipped to a central point and then loaded into cars, some of all the materials in every car, the increased handling and extra freight would amount to enough to spoil the game. As it is, we have saved as much as \$13 a ton and as little as \$8. In 1926 we saved about \$9, which we consider satisfactory.

Mix on the Barn Floor

In 1926 we mixed, mostly, 200 pounds of nitrate of soda, 100 pounds of sulphate of ammonia, 400 pounds of 11 per cent tankage, 200 pounds of muriate of potash and 1,000 pounds of 16 per cent acid phosphate. This makes an analysis of 5½ : 9 : 5, and the cost was about \$31. We mix a ton at a time on the barn floor—no weighing out, just even bags of each material. Shovel it over two or three times and then throw it up in a high pile to cure. It lies there two or three weeks to cure. It can then be screened and bagged at any time and will keep in good condition indefinitely in a dry building.

In closing, I would add that the dry mechanical condition depends mostly upon the tankage. It should be a blood tankage, finely ground, light and fluffy, and capable of absorbing the moisture that is in the other materials. We find in our mixture we must use 400 pounds of it in every ton.

AN EXPERT OPINION

I never like to prate or boast, But this I have to say:—
No auto'll be a big success Till it can live on hay.



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Straw before treatment



After treatment

Experience with Synthetic Manure

SEVERAL years ago, while visiting a farmer who lives some 25 miles north of Paris, France,

By Firman E. Bear
Ohio State University

I was interested in discovering that he was producing artificial manure by the use of straw, urine and sulphate of ammonia. In the interior courtyard was the usual cobblestone manure-pit, from the center of which some workmen were hauling rotted material that had the appearance of ordinary manure, but which I learned contained no animal excrements except some urine. The quality was much the same as that which is ordinarily hauled out from a manure-pit. In commenting on the process, this farmer said that he originally soaked the straw with a solution of ammonium sulphate, and from time to time pumped this solution out, together with additional urine, and poured it back on the fermenting heap. The only precaution that his experience suggested was that the solution should not contain more than 5 per cent of the sulphate of ammonia, or satisfactory decomposition would not take place.

Some months later it was my privilege to visit the famous Rothamsted Experiment Station and to talk with Dr. Richards who, in association with Dr. Hutchinson, originally developed what is known as the Adco process of making synthetic manure. Some of the products which he showed me in his laboratory met all of the requirements of manure as to composition and quality, except that the usual manurial odor was lacking. This does not appear to detract from its crop-producing qualities. Letters which Dr. Richards showed me indicated that the process had been used successfully at a number of different places, both in England and elsewhere.

I RECALL that one of these letters was from a large seed company, the manager of which believed that the process offered considerable promise as a means of utilizing waste materials about the farm and of producing a standardized product, in

contrast to the quite variable quality of manure that is available near cities from different sources and animals. It was also pointed out that very coarse materials, even such substances as cuttings of canes, trimmings from trees and shrubs, and similar coarse organic refuse, could be changed to manure under suitable conditions.

Later, on visiting a very successful farmer living near the Scottish border, I found that he had produced some of this manure during the later years of the war, when he had increased his production of wheat and had had excess straw that was not used up in the cattle yards. The only question in his mind was not as to whether the process would work, but whether it was as economical as that of using cattle and securing the supplemental value, in the manure, of the excrement resulting from the use of concentrated feeds.

ON returning to America, I read with considerable interest a number of articles on the process which were attracting considerable attention, particularly in market-gardening circles. Later I visited the Rhode Island and Maryland Experiment Stations, where piles of this material were shown me, with the statement that the results were not what had been anticipated. In fact, in both cases the heaps had not undergone satisfactory decomposition. The materials that had been used were very coarse, being composed in large part, at the Rhode Island Station, of tomato stems.

It occurred to me that one of the fundamental difficulties that might be involved in making the manure in this country is that of meeting the moisture and temperature requirements during our usual summer and autumn seasons. The fundamental difference between the English climate and ours is reflected in their very high yields of wheat, potatoes and grass as compared with those that are



Pile of synthetic manure from straw at right, and from shredded corn stover at center. The straw pile was as high as the fence at beginning of tests

ordinarily produced in much of this country. The climate is cool and moist. Less water falls as rain, but rains are more frequent and less moisture is lost by evaporation.

IN building our own heaps of organic refuse at Columbus, we have taken precautions to supply the necessary water as required, even though it was necessary to sprinkle the heap every day. As an additional precaution, soil was piled around the bottoms of the heaps to prevent the drainage from beneath that carries with it the soluble nitrogen and other compounds. We chose the fall of the year, and fortunately have had very satisfactory English weather. As the heap became heated, more water was applied, so that no loss of ammonia took place.

After a period of six weeks, manure, of a quality quite similar to that of the covered yard, was available for hauling out. The process of decomposition was accomplished as satisfactorily as the advertising literature had led us to believe, and the quality of the manure is quite similar to that which I saw at Rothamsted.

The above statements refer to manure that was made entirely from straw. At the top of page 50 are shown photographs of the untreated straw (left) and the manure produced (right). It is as yet too early to say what will happen in the case of the heap of corn-stalks.

It is my impression that it is necessary to use a mixture of fine materials with the coarser products or have the coarse products shredded or torn apart before building the heap. The latter is what we have done in the case of corn-stalks, and the outcome of this last remains to be seen. Certainly, adequate moisture supply is essential, and the process should not be attempted unless water is available with which to sprinkle the heap as required.

□ □

Threshing Record

I think I can set a record for threshing wheat. In 1915, I threshed from 6 in the morning to 7.15 in evening, 100 acres of Turkey Red winter wheat which made 54 bushels per acre, or 5,400 bushels for the day. We took one hour off for dinner (only stop made), used ten bundle-teams two men to a wagon, 44-inch separator and 110 H.-P. steam engine, and used six tons of coal that day. Five grain-teams were used for hauling wheat to granary. An elevator was used at bin, but as the elevator couldn't handle the wheat at the granary as fast as it was threshed out, 1,000 bushels remained on the ground at the end of the day. This is the record for threshing in this country. Montana.

Frank E. Linhart, Jr.



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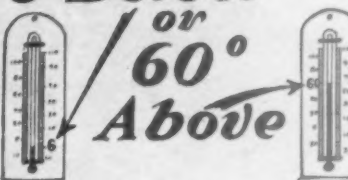
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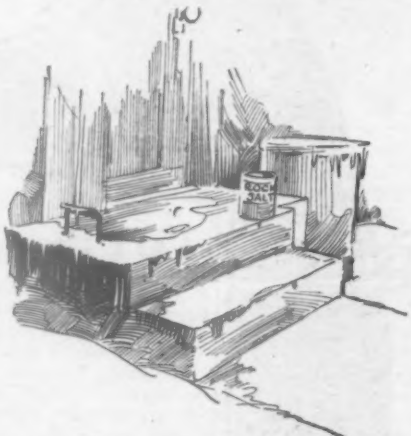
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The HOME SHOP

by Dale Van Horn

If your heating plant is hot-water or steam, be sure all conducting pipes are well insulated. One home-owner who had a hot-water heating plant, wondered why the basement was the warmest part of the house, until he discovered that the pipes were covered only with paper. This was torn off and the regular cellular type of insulation, obtainable in units with bands for attaching, put on instead.

Rock salt—the kind used for making ice-cream—will usually clear the slippery walk or step of ice. This is better than



ashes, for two reasons. It actually melts the ice, even though the weather is below freezing, and there is nothing to sweep away later. Just sprinkle the salt on the ice.

The pipe entering the furnace fire-box, for heating water, should be only three or four inches above the grate, and there should be ten or more inches of the pipe exposed to the flames. The water will heat faster if this pipe runs horizontally instead of vertically, inside the furnace.

Many farmers have found that if the storage tank is placed in the hay-mow the danger of freezing in winter is reduced to a minimum. This can only be done, however, when the mow is considerably higher than the barn. Of course the tank should be amply supported by posts underneath, and it should not be too large.

A steel-bristle brush, intended for cleaning files, is just the thing for working on a dirty spot to be soldered. The steel points cut into the bright metal and, if acid is used, you can count on a good job.

When you are through with the disk harrow for the season, roll it upon a wide plank. This will keep the disks out of the soil and prevent rusting. Better rub the disks with oil, too.

Don't attempt concrete work in freezing weather unless the aggregates can be heated before mixing and the work kept above freezing for at least ten days. Foundations can be laid in cold weather if these precautions are taken, and if the work is covered with manure or well-packed straw. Otherwise, wait until spring.

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If you have an electric-light plant, try putting a line to the poultry-house. The lights can be turned on about 4 or 5 o'clock in the morning in winter, thus making a 12-hour day. The longer day results in greater food consumption; more eats, more eggs. Do not use lights on immature birds—only on strong, vigorous birds of good size.

Chisels and plane bits will cut better if the edges are first ground down on an emery wheel. This gives a slightly-concave bevel. Then if the edge is finished off on a good oil-stone, it will be in good shape. Moreover, the edge can again be put on quickly when use makes it dull.

When replacing ax handles, put the ax in the vise and bore a hole through the wood that is left in the ax. Make the hole large enough to cut the embedded portion into two parts. This will loosen it enough to be easily driven out. Some folks set the metal in a bed of coals to char the wood, but this draws the temper. Cut down the new handle to fit, heat the end in an oven to drive off all moisture, then set a large wood-screw in the end and cut off the head, or countersink it. When the wood again takes up moisture it will remain tight.

Where the plow has to be moved for some distance over gravel or paved roads, a small sled should be made. This can be made 16 inches wide, and 30 inches long, with 4 x 6-inch runners, and a clevis mounting in front. This gives room enough for the plow and a man to stand behind. The runners can be faced with strap iron.

To prevent saws from rusting, rub lard on the metal, then place them in a warm oven (not hot) for an hour.



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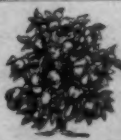
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How the 4-H Leaders Won

The
Prize
Checks



My Experiences as a Local Club Leader

By Homer Sheffield

AT the beginning of 1924, our club found itself without a leader. My record as a member had been good, and I was fortunate enough to be placed in charge of the Crosby club by the county agent. It gave me a great thrill when I received this honor, because I then realized that responsibility for the success or failure of club work in my community depended on me.

Somehow, I seemed to have some influence over the boys and girls, and they were glad to work with me. I was elected president and we began our year's work with much determination to win.

When we organized we had a total enrollment of eight members, but from time to time I told these few what wonderful times I had had on the trips I had won, until they became interested and began telling their friends the advantages of club work. At the time of the county encampment our enrollment had increased to 16 members. Out of these 16 members, I was able to get 14 to attend the encampment, and ten of these 14 won scholarships to the short course at A. & M. College. This was the best record made by any club in the county.

It was in this year that I won my trip to Chicago. The winning of this trip helped me a great deal in regard to my work as a local leader, because it gave me more influence over the members of my club. The fact that I could win such an honor encouraged the other members to enter contests and win trips, also. The different

Last year The Farm Journal offered \$1,000 in prizes to be given to the most outstanding local 4-H Boys' and Girls' Club leaders in the United States. There were 26 prizes in all. The checks are shown above. The boy and girl winning first prizes received \$250 each. Homer Sheffield, of Crosby, Tex., placed first in the boys' group; Esther Sietmann, of Laurel, Iowa, received the same honor for the girls. Both are modest youngsters with a good deal of pluck and ideas. Here are their own stories, and those of other winners will be printed in succeeding issues.

teams that have gone out from the Crosby Agriculture Club since I have been local leader have not only won in county and district contests, but they have also won high state honors.

In 1924 a Crosby boy won the trip to Chicago. In 1925 another Crosby boy won the trip to Chicago and in 1926 it is sure to be a Crosby boy who wins the trip again, because there are four boys from here trying for the trip this year and they are all doing splendid work. This shows that the Crosby club is holding the line to the finish. It is a very unusual thing for a club to win the highest prizes and honors for three consecutive years, as the Crosby club has done.

The girls of my club have also won many prizes and honors in the county and district, and they have even won more state prizes and honors than have the boys of my club.

When I was put in charge of the Crosby club in 1924 it consisted of eight members. At present we have 48 active members enrolled, who are not only keeping their projects and records up to date but are also winning high personal honors. This year one of the boys of the club has won a free trip to Kansas City on the stock-judging team.

Since I have been local club leader I have done all that is within my power to put the Crosby club on the map. The club members have also worked with great effort toward this point, and now we can honestly say that we have one of the best clubs in the state.

Besides being local leader, I have also been elected and appointed leader of a few other organizations.

I was elected chairman and leader of the boys and girls at the county encampment.

I was elected chairman of 5,000 boys and girls at the state club meet held at A. & M. College this year.

I am a Sunday-school teacher of a group of boys here in our community.

I am the leader of a group of Boy Scouts.

I am president of (Continued on page 88)



Homer and Esther receiving their first-prize checks from Sterling C. Evans (Texas) and Paul C. Taff (Iowa), state club leaders

My Story as a Girls' Club Leader

By Esther Sietmann

LEADERSHIP is necessary for the success of any organization. Without it, 4-H club work could not be as outstanding as it is today.

Efficient leadership has always been a problem in our community. In the state of Iowa, extension workers prefer to place adult women in charge of girls' clubs. A vacancy occurred in my club, however, and I was asked to act as leader.

Nothing gives me more pleasure than the constant contact with my club girls, and sharing their problems with them. Each one of them seems like a younger sister, and I feel I should never be too busy to answer their questions, whether it be a puckered sleeve, an unruly seam or some other trouble.

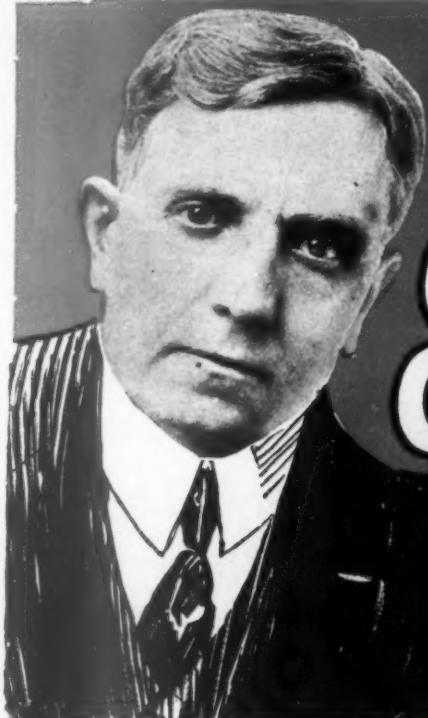
Becoming acquainted with other leaders and with state leaders broadens one's acquaintance and gives one a broader outlook.

I have often been asked if my club activities do not take most of my time. Of course they do, but the things I do far outweigh the amount of time spent. It is not wasted. In fact, I always find plenty of opportunity to help with work at home, keep up my high-school work, play basketball, and do countless other things incidental to the life of a busy girl.

I have been in club work five years, two as a junior leader. I live and like to live on the farm. Being a farm girl has not prevented me from attending the high school in Laurel.

4-H club work will help any girl find her life's calling. It will keep her healthy in body and active in mind. It should prevent her from turning into a prude or snob. It should make her a well-balanced woman all around.





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How They Do It in Utah

By O. A. Fitzgerald

UTAH, a state that was importing eggs as late as 1921, is dreaming of a \$20,000,000 poultry industry. And, strangest of all, it expects the small flock of, say, about 500 hens, and a flourishing co-operative, to be the backbone of this great industry. The central figure in this almost phenomenal expansion is the Utah Poultry Producers' Co-Operative, a marketing organization

which started in a small way in Central Utah and later expanded, under guidance of the Utah State Farm Bureau, to a state-wide unit serving approximately 1,600 producers.

To appreciate fully what Utah has done and is doing in poultry, let us consider a bit of history. In the spring of 1922, an enterprising banker in the Gunnison Valley, Benjamin Brown, conceived the idea of forming a Central Utah Poultry Exchange. His idea was born from a circumstance that often is seen in farming communities. The Gunnison Valley was unable to market its eggs. The Salt Lake City market was glutted and producers could get no offers better than eight or ten cents a dozen for eggs—a price that was hardly justifiable. Mr. Brown saw the need for some sort of an organization that would remove this surplus from the market. It was started in a small way, and eggs were shipped to Los Angeles by express. It was decided at the first, however, that only top quality eggs should be moved out. The first shipments to Los Angeles, though moving by express, netted the producers between eight and ten cents more per dozen than they could have realized at home. With that encouragement, the local association expanded almost phenomenally. During the season nearby communities begged the association to handle their eggs and it expanded as much as it could in such limited time.

In the first year there was a total export of 17 carloads of eggs—but later in the season it was found the co-operative had in its enthusiasm overdone the movement, and it was found necessary to move back into the state seven carloads to meet local demands. Thus ten carloads was the actual export movement of Utah's first year in the business.

During the winter of 1922-23, the Utah State Farm Bureau became interested in the co-operative egg-marketing movement, and induced Mr. Brown to assume leadership in a state-wide society. The year of 1923, Utah marketed 225 carloads of eggs and established a reputation on the New York market for its "milk-white" eggs, a reputation that has continued to give the Utah producers a premium over prices paid for top eggs from most sections. In 1924, the export movement had increased to 356 carloads. In normal years Utah ships out through this co-operative 10 to 15 carloads of turkeys and 15 to 20 carloads of dressed poultry. The Utah co-operative has established its own

branch in New York City, being the first individual co-operative to take such a step. "We have received numerous requests from Florida, and from Philadelphia and other eastern cities," declared Brown upon his last trip home, "but at present we do not have the eggs to supply. We are inducing our producers to increase their flocks and this winter are planning to reach the farmers not already in the poultry industry."

The small poultryman, with a flock of 300 to 500 hens, which



Scratching shed, with canvas curtains on front, on Utah poultry-farm

he operates more or less as a side-line activity and as a factor in the diversified-farming idea, is really the backbone of the growing poultry industry in Utah. Records of the co-operative, which handles approximately 80 per cent of all eggs and poultry from the state, show that the small flock, given proper attention and cared for scientifically, can be made to pay.

Several instances are cited where farmers having flocks of about 300 hens report earnings for the year of \$1.50 per hen, making the year's revenue \$450. Between 60 and 75 per cent of the association membership (1,600 producers) falls in the small-producer class. The small flock usually is cared for by the farmer's wife. She feeds the hens and gathers the eggs. It is not a major part of farming in most instances, but its total contribution to the prosperity of the state is amply proved when one considers that this year it will be a \$2,500,000 activity.

Adjoining Utah, though somewhat blanketed by the unusual success of the Utah co-operative, is another community having genuine man-sized aspirations in the poultry industry. Bridger Valley, Western Wyoming, was almost tempted to celebrate recently when its first shipment of eggs went to the New York market. It was the first time the region had exported any eggs. This was but the second year in the poultry industry for that valley. The Bridger Valley is comparatively undeveloped, and its total population is less than 2,500 people.



Mrs. Frank Sheffroth, of New Hampshire, has taught her fowls confidence

Teach the Fowls Confidence

I HAVE found that those poultry-keepers who are meeting with the most success are the ones who are kind, gentle and sympathetic when among their flocks. It may seem a small matter to have the fowls become acquainted with one's voice, yet I know that speaking to the fowls inspires confidence. It is a woman's way, and women, as a rule, are able to get pretty good results with poultry.

Fear is harmful to fowls. It gives them a setback. I have often noticed the excitement occasioned by placing a strange male in an unmated flock. Every move I made would cause a flurry. It would take weeks, sometimes months, before I could teach those fowls the confidence necessary to successful handling.

By M. K. Boyer

But I do not believe in having fowls so tame that they become a nuisance.

While I want my stock tame, I do not want them under my feet every time I enter the pen. A certain control is necessary. They should be taught not to be scary, and so gentle that one's presence among them does not excite fear. It is good evidence of a man's shiftless, cruel and excitable ways, when his presence unnerves his fowls, and they fly about wildly the moment he enters the yard or house to take care of the flock.

It takes a lot of patience, kindness and gentleness to operate a plant successfully, and any one lacking those qualities had better let poultry severely alone. He may be a success at something else, but not at poultry-raising.

JANUARY, 1927

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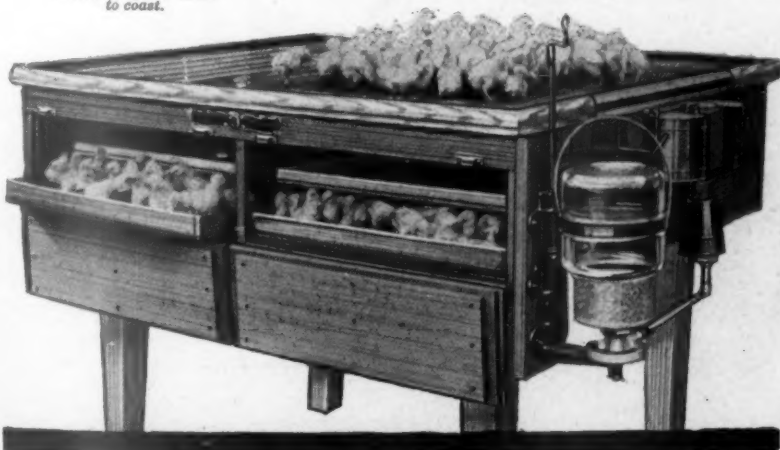
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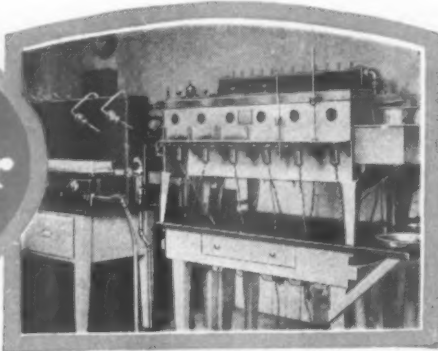
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Shall Mashers Be Wet or Dry?

By Robert Morton

IT has been fully demonstrated that feeding mashers dry, in hoppers, is far better than giving them wet in troughs. This is so, from both an economical as well as a healthful standpoint.

About 30 years ago, when the advisability of feeding the mashers dry was discussed, there were many Doubting Thomases. It seemed to be the general fear that dry feeding would not keep up vitality. We could afford sacrificing most anything but that. Vitality is the beginning and end of the whole business. If we lose it our stock will begin growing worse year after year.

But years of trial pretty well settled that question. Nine-tenths of the ailments that afflict laying hens come from the derangement of the digestive organs, and of the liver. I firmly believe that most of these cases are due to the stimulating effect of wet mashers, especially where condiments have been added.

Indigestion from Gulping Food

In my experience I have had fewer cases of overfatness, and bagging down behind, by feeding my mashers dry, and I have seldom had a fowl suffering from looseness of the bowels. All these conditions I had to fight every year that I was feeding the mashers wet or moist.

Under the old system the fowls would gulp the food down very quickly, far too hastily for the digestive organs to properly perform their allotted task, and the result was indigestion, or looseness of the bowels, or other symptoms indicating the fowls were out of condition.

In other words, these cooked or moistened mashers, in many cases, forced the fowls beyond their ability properly to digest and assimilate. I also noticed that the hens would be indifferent to exercising, after having received the morning mash. They would sit about and accumulate fat, which in time debarred them from the breeding-pen.

I was slow at first to make the change to dry feeding, but I gave the matter great thought, and now I feel the change has been permanently made.

More Labor in Feeding Wet Mash

At one time, in the beginning of my poultry career, all mashers had to be cooked. This entailed considerable labor. Then came the idea of scalding the ground grain, and allowing it to steam for an hour. To some extent this cut down labor. But the next generation of poultrymen went a step farther, and only slightly moistened the mash, just enough to make the meals stick together. So it will be seen that step by step the poultrymen were advancing until they reached the present system.

Feed-hoppers are now in use instead of troughs, as was the custom when wet mashers were given, and these hoppers are replenished every few days. I open my hoppers in the morning when I first visit the pens, and close them at night as I feed the grain ration.

Dry Mashers Eaten Slowly

It has been my observation that fowls eat dry mashers slowly. It will take hours for them to consume the amount of dry stuff they would eat in 15 minutes were it moistened or cooked. The dry mash is not only eaten slowly, but numerous swallows of water are taken immediately after several mouthfuls of food, which gives



F. R. Fribley, of Indiana, feeds a dry mash, and has the feed-hoppers open all day, so the hens can help themselves at will

better assimilation; the fowls are not overfed, and egg material is consequently available. Another thing: Some poultrymen claim that dry feeding assures better fertility, but I can not say as to this. I know that fertility will be better with hens that are not overfat than with those that are out of condition.

The Ohio station predicts that all-mash feeding will be the rule before long, not only for chicks and pullets, but for laying hens. This prediction is based on tests with 2,500 White Leghorn hens. The all-mash method has these advantages: More sanitary; takes less labor and skill in feeding; enables one to feed a definite ration. As the name of this method indicates, no scratch feed is used. The birds in these tests not only kept up with scratch-feed birds in laying, but maintained their body weight satisfactorily. The lack of exercise might be more of a hindrance with other breeds than the Leghorns.

WHEN selecting a male bird for the breeding-pen, choose one that has good size of frame, and is free from any grave defect or deformity in limb or body. He should be well formed, in good health, full of spirit, and have a certain vivacity of temperament and proud mien. He should be a gallant fellow, one that delights in caressing his mates, and ever willing to defend them. A sulky, selfish, persecuting and dominating disposition does great harm, and soon destroys the peace and happiness that will be found in flocks where the male is kind and gentle.

If I were making a choice between two males which are equal in points, ancestry and vigor, I should choose the one which shows the most courage.

While it is desirable that the male be gallant, and ever ready to share his meal with the hens, he must not be overgenerous, to the point of depriving himself. Cases of that kind are not uncommon, resulting in an underfed body and a nervous condition;

Selecting Males for the Breeding-Pen

consequently, the male becomes a poor breeder.

On the other hand, where the male is a glutton, he quickly overfattens, due to his greedy disposition, driving the hens away until he fairly gorges himself. In this case the hens are underfed, and there is poor egg fertility.

A cockerel that weighs a half-pound more than other cockerels of the same age may generally be depended upon to possess strength and vigor, qualities of more worth than any adornment.

Another point in mating is to have a male that is exceptionally strong in those points in which the females are weak, and vice versa. No young male should be used that is not fully matured and well developed.

Among the best breeders may be classed birds which range in age from twelve months to two and one-half years of age. It is important, too, that the male be from sound parents, and not too heavy in weight. Heavy males frequently injure their mates, and are not desirable.

M. K. B.

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Linseed-meal contains about 30 per cent protein and 3 per cent fat, making it both a cheap and a nutritious ingredient for the mash. It is especially valuable during the molting period.

Linseed must not be fed too strongly, for it is fattening. An overamount is apt to bring on looseness of the bowels, especially in young stock, but if properly fed it will regulate the bowels and keep the stock in a healthful condition.

Some poultrymen say a teaspoonful is a good allowance for a hen. Others say a quart of linseed is enough to mix with half a bushel of meal and bran. Still others recommend it in the proportion of about one to ten—that is, one part of linseed to ten parts mixture of cornmeal, wheat bran and ground oats. The writer has obtained excellent results by feeding it in proportion of five pounds to 100 pounds of mash, in which there is about 15 per cent of meat scrap.

Keep Laying Hens in Good Flesh

I believe that I am not misjudging the natural laws governing reproduction in domestic animals when I lay down the broad, general principle that a condition of pregnancy carries with it a tendency to fatness.

When we apply this principle specifically to fowls, we feel justified in assuming that a condition of egg-laying is a condition of reproduction, and therefore of pregnancy. After a very large number of examinations of fowls in various conditions of laying we find that, in every instance, a fowl which is in a laying condition has a large amount of surplus fat in her body and, conversely, a hen that is not in a laying condition is invariably poor, or at least does not show a condition of fatness. It would appear that a poor hen can not lay.

Egg Yolk Contains Fat

When we seek an explanation for this condition, we find the composition of the yolk of the egg gives us a clue on which to base a theory. The yolk of the egg contains 64 per cent fat, while the white of the egg and the shell contain no fat. The yolk is the first part of the egg to be developed. It is, in fact, the enlarged ovule that develops from the muscular tissue of the ovary. Manifestly, the first part of the egg, therefore, can not be developed unless there is surplus fat in the fowl's body.

Observations in methods of feeding also bear out the truthfulness of the above statement because fowls, in order to lay well, must be given all of the right kind of food that they will eat and digest if they are to give continuous egg-production. This is because the egg is made from the surplus nourishment assimilated by the fowl over and above the actual maintenance ration.

The fact that a hen must be more or less

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fat in order to lay, undoubtedly will be questioned by most persons who have not closely observed the relationship between the physical condition of a fowl and her reproduction.

I go on record as saying that if we are to get large egg-yields we must first so feed our fowls that they shall be reasonably fat, and then take our chances on their becoming overfat, which might result, in the end, in fatty degeneration and death. A few hens will generally have a tendency to become overfat without laying. These would, in any event, be likely to prove unproductive by any system of feeding, because they inherit a tendency to throw their energies into flesh rather than into eggs, and therefore take full advantage of the opportunity to grow fat when heavily fed.

All that we can do, to overcome this tendency to overfatness, is to keep the fowls in the best possible physical condition by keeping them in clean, fresh-air houses, and encouraging them to exercise freely for all of the cracked or whole grain that they eat, and meanwhile give them all that they can eat up clean, once each day, of nourishing, easily digestible and palatable meat and ground grain, in order to make certain that they have all they can digest. Of course, they should always have accessible bone, oyster-shell and grit.

Twice-a-Day Feeding

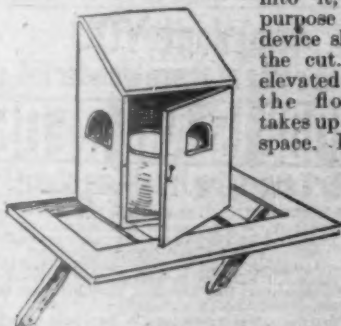
In practise, this result can best be secured by letting the fowls become hungry once each day, preferably in the morning, and to have all that they can possibly eat twice each day, preferably ground feed and meat at noon (in case of wet mash, or in a hopper during afternoon, if dry mash is used), and mixed whole or cracked grains at night. They should go to the roost with their crops full, with a little grain left over in the deep litter to induce early-morning exercise and feeding.

In view of the above, does it not seem reasonable to assume that fowls, in order to reproduce themselves, must have surplus energy which is stored up in the fowl's body in the form of fat, against a time of need?

This, it seems to me, is a reasonable explanation of the well-known fact that fowls always eat more for a considerable length of time before they begin to lay, which is followed by an increase in weight before actual production takes place; and the well-known fact which any one can observe, that the hen in her highest condition of reproduction weighs more than at any other time during her life. J. E. R.

□ □

To provide water for the hens without a possibility of their getting into the dish, upsetting it, or of scratching litter or dirt



into it, is the purpose of the device shown in the cut. It is elevated above the floor, so takes up no floor space. It has a

rail so that three hens can drink at once, and has a sloping top to keep hens from roosting upon it. A grocery box and a few strips of board will provide all the material necessary.

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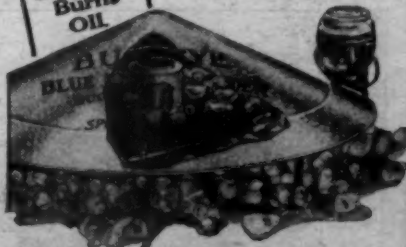
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You know the symptoms—face swollen, running at eyes and nostrils, comb pale, whistle or sneeze when breathing, frequent wiping of beak on feathers, breath with catarrhal odor.

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Prices on Conkey's Roup Remedy anywhere—Packages, 30c, 60c, \$1.20; 1½ lb. can, \$2.50; 5 lb. can, \$5.75; all postpaid.

Conkey's Canker Special stops and reduces that swelling of the membranes in the eyes and other places caused by colds or other roup conditions. Prevents cankers from forming. Squirt it into eyes and nostrils.

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*A child of peace and industry thou dost appear to be,
And scratching 'round the world for food is world enough for thee.*

*There's judgment in thy countenance, there's shrewdness in thine air,
And the innocence of chickenhood is ever dwelling there.*

Thy voice is somewhat clamorous; but while most other birds

Pipe out their soft and lovelike notes to sentimental words,

Thy cackling note, statistical, in business style is made,

To proclaim to all around when thou an egg hast laid.

—Littell's Living Age (1845).

To get customers, an Iowa farmer who ships eggs has the ends of the crates neatly stenciled. This plan advertises his goods to those who see his shipments on depot platforms. Fastened by a short string to one corner of each box he puts a number of detachable tags, each bearing his name and address, and the current price of his eggs by parcel-post. Painted on the box, near the string, are the words "Take One," as a hint to travelers who see the shipments and wish they could obtain similar fresh eggs for their own tables.

Grace D. Shaw, Illinois.

"Common Poultry Diseases," Special Bulletin No. 103, Minnesota Agricultural College, University Farm, St. Paul, Minn. Free from foregoing address.

Hungry hens, those ever ready for their feed, lay the most eggs, and make the best breeders. Such hens come first at feeding time, and linger till the last; and yet, while they eat the most, they do not become overfat.

Scrub poultry may serve a good purpose in the pot, but should not be permitted to occupy space in the breeding-pens.

The guinea fowl is coming into its own. Epicures are learning that the flesh of the guinea is of such elegance that it is frequently called for. It is superior to that of grouse or partridge.

"Colony Brooder Houses," Special Bulletin No. 105, Minnesota Agricultural College, University Farm, St. Paul, Minn. Free from the foregoing address.

Lime can be supplied, where oyster-shell is scarce, by feeding cut clover hay as a green-feed substitute, scalded and mixed in the mash. A piece of lime about the size of a walnut can be kept in the drinking-vessel. Green bone, cut up so the fowls can eat it, furnishes considerable lime.



Wild duck: "You better go south with me this winter."
The tame one: "No, thanks.
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Swamp Land for Bees

Continued from page 20

"My bee year starts about the middle of October," says Scott. "At that time, I take out all the honey from the fall flow and leave my bees with about 40 pounds of stores per colony. I partially close the entrances to keep out the cold air and the mice. The colonies are let alone then, except for periodical examination, until spring. About the middle of February, I begin to go through each hive and see if there are plenty of stores. I look out for the queenless hives and get fresh eggs for the bees to raise a new queen, if one is needed. Sometimes with the advent of warmer weather, I find that the worms will get in a hive and if the colony is weak, I take these worms out. I always try to have plenty of bees in a hive when the honey flow comes on, and I practise swarm control to prevent swarming."

"Out of my 400 colonies, I had not over a dozen to swarm last year. If I had let them alone, every hive would have swarmed."

"How do you prevent swarming?" I asked.

"Well," he replied, "when the hive begins to be crowded, I take all the brood out of the brood chamber, except one frame with a little brood on it. I leave the queen down on that and fill the balance of the chamber with frames filled with the drawn-out comb foundation. Next, I put a queen excluder above this chamber and put the brood in another hive body above. I cut out all the queen cells from the transferred brood so that no queen will be raised in the new division. The surplus brood is then above the queen excluder. In about five or six days, I raise this chamber still higher and put in another super above the queen excluder. Then it is just a case of keeping plenty of room available for the queen to work."

SCOTT had only 276 hives at the opening of the honey flow last spring, but from that number he cut about twelve tons of honey, for which he averaged not quite 20 cents a pound. He bought about \$1,200 worth of new equipment with which to increase his operations this year. He sells his honey to retail and wholesale merchants, principally in the larger cities of the Piedmont and western part of North Carolina. Last year he supplied orders in eleven different states, shipping his honey in one-pound glass jars, and in three- and five-pound buckets. All the honey is marketed under the trade name of "Swamp Angel Brand." He has modern equipment for extracting the honey and for packing and shipping.

A lumber company at Bolton has about 235,000 acres of land in and about Green Swamp, most of which is available for beekeeping operations. Scott is very careful to be on the lookout for good stands for his apiaries. He pays the landowners for the use of their property, giving them either cash or a donation of honey. He has had some trouble with bears taking off some of the best hives, but trapping and shooting, together with a good substantial wire fence built around the apiaries, have helped to overcome this trouble. The skunks sometimes eat his young bees, and these rodents must be trapped. There are some fine specimens of bear skins, alligator hides and deer skins in the Scott home. Hunting these wild creatures adds to the zest of living in the low country, and as Scott is an outdoor man, with an outdoor man's hobbies, he takes a most thorough delight in this sport.

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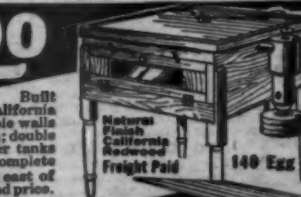
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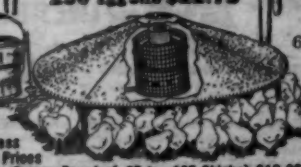


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Resurrecting a Dead Farm

By Irvin J. Mathews

I HAVE just gone through the throes of developing a farm—a farm on which one man and his family had lived for 21 years, and starved out. The fences were gone and the buildings had rotted part way into the ground.

Naturally, I am a livestock farmer. I was brought up on a stock farm and I like animals, but I had learned by an earlier experience that any farmer who must "make 'er go" with no other crutch to depend on, and who wants to stay in the business, must start at the crop end rather than the livestock end. Good livestock is made good by good feed. You can give feed you raised to cows you bought and make money, but it's tough picking when you give feed you bought to cows you raised.

To begin with, the young man in this day and age who can choose should see to it that he secures a location where his natural advantages are such that he can each successive year cheapen his production costs. Co-operative marketing can be expected to increase selling prices to some extent, but decreasing costs must be done by the individual farmer, single-handed.

Here in Indiana, our hope of cheapening costs is to secure land where we have good soil drainage, and where there is running water in every field, if possible. Windmills and gas engines increase production costs. Tiling is expensive—a form of inlaid overhead. It is impossible to overestimate the value of an ample and constant water supply. Even though he is a livestock farmer, safety demands that he raise some cash crop. In case he

wants to spray his apple trees or his potatoes, it is very handy and inexpensive to back the spray rig down to the river or ditch, reverse the pump and in a few minutes have a tank full of water without having to extract it forcefully from a deep-seated hole in the ground.

Three years ago, neighbors said this farm had "gone the trip." Today it is growing 90 acres of alfalfa and sweet clover. And with this experience on it as



The house on our resurrected farm

a background, I step right up to state that most of the "gone" farms can be brought back in three years or so to where they will produce more crops than the majority of farms in the neighborhood; and it does not cost a young fortune, either. You have to start right—lime, fertilize, grow clover, erect buildings and feed livestock—and don't get discouraged too soon.

Money for Running Expenses

It is a sad mistake to tie up all one's capital in the purchase of the land. On a farm of 100 to 150 acres, I think a man ought to have access to about \$1,500 or \$2,000, to operate with until he has the farm in shape to feed himself and family and pay back what it owes him.

Build a new barn? No. Buy cattle? No. Try clover? No. Tile drain first, if that is needed. Spread limestone. Put on a liberal sprinkling of acid phosphate and some potash (no nitrogen) and you will grow clover and alfalfa, as much as you can use. Then you are ready for hogs and cattle; and when you can economically grow cattle, there is yet plenty of time to think about buildings and fences, and showy concrete corner-posts.

We limed 110 crop-acres with a very little more than \$500. We tried to put on two tons of ground limestone per acre, but on two fields this was increased to four. Here we started the alfalfa. When one is developing a farm he wants to get the developing done as cheaply as possible, and I can now grow just as good alfalfa when I spread two tons of ground limestone as when I put on four. The point is that the smaller application should be put on a year in advance of the alfalfa. We spread our limestone on corn ground because this gives us a chance to cultivate it in without any additional labor.

To be quite frank, I do not now class as a new crop millionaire, but I personally enjoy the achievement of having taken a skinned farm and made it a profitable business enterprise, and above all, a most enjoyable place whereon to live, and a most excellent place for my children.

This soil is somewhat sandy—the worst

Hold Your Nose!



Yes, copper-carbonate dust is good medicine for stinking-smut of wheat; but be sure to wear a dust mask when using it. You can buy a mask, such as the man at the right has on his nose; or you can take a piece of cotton flannel, lint side out, and put it over the nose, as the man at the left has done. Better wear goggles over the eyes, too. A good way to keep down dust is to put the dust and the grain in an old barrel churn, or in a smut-treating machine.

that can be said about a run-down farm. No one wanted it; it looked too yellow on top. But since we have been feeding hogs and cattle on these fields, the top-soil has got some organic matter in it and strangers will not believe that it is sand until I bore down with a ten-foot auger and show them that it is ginger sand as far as this auger will reach.

Lime alone produces a very indifferent growth of alfalfa, but when one puts 125 pounds of high-grade acid phosphate and 35 or 40 pounds of muriate of potash per acre on the soil, he gets fully as good alfalfa as grows on soil worth four times as much.

Alfalfa for Pasture

As soon as one gets a field of alfalfa established, then he wants to fence that field. No use of fencing it before. There are a lot of folks who say that alfalfa won't stand pasturing, but they are the ones who never gave it a trial. Alfalfa will stand pasturing just as long as it isn't pastured too late in the fall and so long as it is renovated once a year to keep out the weeds and grass. Shut your eyes and go both ways with a spring-tooth harrow. At first you will "view with alarm" the devastation wrought, but when it comes on the plants will be better and more vigorous than before. The hog and cattle manure hasn't seemed to hurt it very much, either.

On a farm that one is trying to develop, I think a man wants to go pretty slow on corn-raising. I can take worn land and raise as good alfalfa and clover as any one, but not so with corn. My first corn went about 35 bushels per acre, and as long as I can raise but 35 bushels per acre while my neighbors raise 50 or 60, they can raise corn so much more cheaply than I, that I can better afford to buy corn from them and sell it to my shotes on my alfalfa fields.

To be sure, cattle will bloat on alfalfa; so they will on clover—in fact, cattle will bloat on any feed that is good feed. But eternal vigilance is the price of safety, whether you pilot an airplane or pasture cattle on alfalfa. A drench of a cupful of kerosene and two cupfuls of sweet milk, well mixed, will relieve any case of bloat if you keep your eye peeled and give the dose in time. This last sentence has been worth \$200 to me, and it may be to you, too, if you paste it in your hat.

Feeding Crops in the Field

As soon as the fields are growing alfalfa or sweet clover, that saccharin sister of the legume sorority, I feel that that field will then pay for the cost of fencing it so we can get the protein direct from producer to consumer. And after this has been done, we are ready to put up buildings. But my own individual opinion is that too many farms are "overbuilt" and by a little better management, much of the crop can be fed right up on the field that produced it rather than carting it all up to the barns and granaries. The loss of fertility through its concentration around buildings is appalling, and the worst feature of it is that only a small proportion of the plant-food is ever returned to the field that grew the crop. This practise and that of selling crops are largely responsible for farms that have gone to market and to the ocean.

If we would do a decent job of developing farms, making them profitable and the home a fine place to live, we must simply reverse the practises that lead up to the degeneration of the soil. Every farmer could write a thick and interesting volume on "My Assets in the Ocean."

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Some Uses for Concrete

By George McKerrrow

THERE is no end of uses for concrete about the farm buildings—walks, tanks, drainage outlets, feeding-floors, foundations, steps, etc. It is of no use for me to try to write about all the uses at one time, so I am going to tell about the three uses shown in the photos.

The watering-tank with railing of gas-pipe around it is on a dairy-farm in Southern New Jersey. The tank is filled by a pipe coming in at the bottom. There is also an outlet pipe for draining the tank after cleaning.

The main things to look out for are to use sand and gravel that are clean. If the pebbles are coated with clay, the concrete is not likely to be very strong.

There are some jobs of concrete work that can be done with little trouble in winter, when farm work is slack. Fence posts, for example, can be made indoors; or concrete floors can be laid inside. All materials (except cement) should be heated, of course—say 80° F. The concrete should be kept



An iron rail keeps the cows from wading in this concrete water-tank

The second photo shows how Chas. Houghton, Indiana, has made a sort of tank at the outlet of a tile drain. The tank is not very deep, and the hogs can get right into it and wallow. Mighty nice for the hogs on a hot day, and so much better than the old mudhole.

In both of the troughs, the mixture to use is 1:2:3. That is, one part cement, two parts sand and three parts gravel or stone. The entire job should be done at one operation, if you want to avoid leaks. Re-enforcement? Yes; you can use five-eighth-inch rods placed a foot apart each way. The rods should continue from the floor up into the wall. After the floor has been poured, finish it smooth with a steel trowel. The inside of the walls should be plastered with a mixture of one part cement and two parts sand as soon as the forms are removed.

Cheap Farm Culvert

The third photo shows a farm culvert on a Nebraska farmstead. The ditch itself is lined with concrete to prevent washing. A culvert like this can be built in spare time, using scrap lumber for forms. Materials for the culvert should not cost over \$10 or \$15. Woven wire can be used for re-enforcing. The mixture to use is 1:2½:4.

The cement dealers and manufacturers supply booklets and sketches showing how to build most anything of concrete.

at about 60° F. for a couple of days, anyway. Covering with canvas will help to hold heat.



A place for the hogs to wallow

Craven County Farmers' Club, North Carolina, has supper served at the monthly meetings by the home-demonstration clubs. A charge of 50 cents is made for the supper. All food used is paid for, but no attempt is made by the clubs to make money on the venture. The attendance at the meetings is increasing steadily, and the women say that they benefit by the experience. So do the men.



Concrete culvert in a Nebraska barnyard

Weather by the Moon

By Willis Edwin Hurd

YEARs ago, probably most civilized people believed that the earth's weather was influenced by the moon. Many believe that still. A study of a great mass of weather observations, however, fails to show such an influence as being at all appreciable; and the final test of our knowledge of weather and its relationships certainly lies in many years of records taken by men over great areas of the globe. Yet ideas of any sort, once rooted in people's minds, are hard to uproot whether there is much truth in them or not.

The fact of the matter is that varying weather conditions in our atmosphere do alter the appearance of the moon. Much humidity will make it seem red; thin upper haze or clouds will make it pale and watery; clear atmosphere will make it sharply defined and silvery. These changes as observed in the past by people who were interested in such matters undoubtedly helped in laying much of the responsibility of weather foretelling upon the moon.

Wet and Dry Moons

Many people believe the character of the moon's phases determines the weather shortly to follow. For instance, the wet moon and the dry moon are often spoken of; in the one case, the horns of the crescent at quarter are turned up, so it is said they will hold water and the weather will be dry; in the other case, the horns being down, the rain will be free to fall. Opinions differ, however, as to which is which, since what is called the wet moon in one section is called the dry moon in another. Again it is the truth to say that in different parts of the country there will be both dry and rainy spells during lunar quarters, whichever way the horns turn, for rarely if ever is the country all dry, and never all wet. The direction of the crescent, it may be said, depends upon the astronomical relationship between sun, moon and earth in their orbits.

As to the moon's relation to seed-time and harvest, that also is lore, believed in thoroughly by men here and there, and actually taken into account at planting time by individuals in a small way, but hardly considered by farmers on a large scale, since in practical farming the surest scientific methods, and not the dictations of folklore, must prevail.

The Moon's Horns

There is a saying that "sharp horns do threaten windy weather." This saying is founded on fact, since when the air is well mixed by strong winds aloft, it is clear, instead of being blurred by layers of air of different temperatures and humidities. The moon's horns are thus sharply defined, and the upper wind movement is likely to be followed by stronger wind movement at the surface.

"A dim or pale moon indicates rain or snow." This saying also is true. The moon is then partly obscured by thin upper clouds which are the usual fore-runners of stormy (rainy) weather. At such times there is often a ring or halo around the moon. I used to hear my grandmother say that if one star were visible inside the ring, rain would follow within a day; if two stars, within two days. One might gather from this that the storm is far or near, depending upon the thinness of the cloud layer, since this type of cloud thickens with the storm's approach.

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"Tips" from Old Trapper Tom

By George J. Thiessen

"THE balance of the fur season is the best." Tom Wilson laid down his knife and through force of habit ran his fingers over the edges of a mink-board he was making. "Yes," he continued, "from now on we trappers ought to make big money, because the pelts are prime."

I felt flattered that he would even include me among the pelt-hunters, for Tom was considered one of the best trappers in that section, having followed the line for many, many years, while I had made sets for only three seasons.

"I know furs are at their best," I answered, "yet my catches are few and far between. Up to the present—"

Wilson looked up, reached for his corn-cob pipe and interrupted:

"You don't know how to catch them, sonny. The books never teach you that. When you have had experience, you find out many things that make your fur checks bigger."

I waited until the old man had tamped his pipe full of home-grown tobacco,



"Oh, look, Mother! there's a dog with whiskers"

lighted it and blew several rings of smoke toward the ceiling of his shanty.

"You're right," I admitted to my friend, "and if you could give me a few hints I know that I would have better luck."

Old Ponto, Wilson's hound, rose from behind the stove, stretched himself and came toward his master, putting his nose into the trapper's hand. "I guess I can not refuse," was the answer, "when both of you start pleading." And with that he patted the dog's head and began:

"FIRST of all, the average trapper today does not study the habits of the animals as he should. To illustrate: When cold weather comes and most of the furbearers den up, he fails to make catches at all. At this season of the year, minks are very profitable for one who knows how to get them. And no matter how cold it is, the animals run."

"The thing you should do is to locate them by their tracks. If you will go along every tiny stream that flows from a spring—and there are many near—a close examination will reveal the signs. And sets properly placed will get the animals."

"The trick is to place the traps right," I lamented.

"Certainly," was the reply. "You can't put your sets just anywhere in the water and hope to get results. The mink is the most cunning of all small furbearers, and at this time of the year you must be mighty careful to make catches."

The old man puffed vigorously for a few moments and then continued:

"As I said before, practically all small flowing streams offer good places for sets. But before making any, you must study the signs to know where to put your

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traps. The amateur just makes a set at the most convenient place, but the experienced pelt-hunter knows that there is one best spot and does not put out a trap until he has discovered that place.

"To show you what I mean, suppose we consider that spring near the bridge at Rock Creek. I've noticed mink tracks nearby and also a number of traps. The fellow—"

"I made the sets, Tom," I confessed. Wilson seemed not to notice.

"The fellow," he repeated, "overlooked a place where he could have made catches right along. There is, if you notice, a rock which overhangs the water, and the minks, instead of following directly in the path of the stream, go under this stone."

"I know the place and you're wrong, Tom. There are no tracks under that rock, for I've looked. You see the signs are scattered, so it is hard to tell exactly where to put the traps. I made a number of sets, hoping a mink or two might get into them."

THE old man waited patiently until I had finished. "You're just like the hunter who shoots at a whole flock of geese instead of one. You never get any. I'll admit you can not see any tracks under that stone, but mink travel under it, just the same. If you had used your eyes you would have noticed that the current of water is quite strong where it strikes that rock, and carries considerable fine, white sand. In other words, the tracks are quickly covered up or washed away. I know the minks go the route I mentioned because you will find, on close examination, where the animals rub against the overhanging stone as they make the turn."

I confessed that I had overlooked this and would not only rearrange my sets at this spring but try to use the information at others as well.

"You're right," I apologized, offering my hand. "And thank you for what you have explained. I'll try hard to make use of the information."

The old man watched me as I walked down the path and turned toward the creek. Only a few hours remained before darkness. However, I found time to make one good set under the stone by the bridge, as Tom had suggested. I did not bother with any other locations, for I had no time. The traps I pulled up were hidden until the next day, when I would pass and pick them up. Yes, I got fur under that rock—nine minks were caught at that one location during the rest of the season. I knew then that the old trapper had told the truth when he made the statement that "the balance of the fur season is the best."



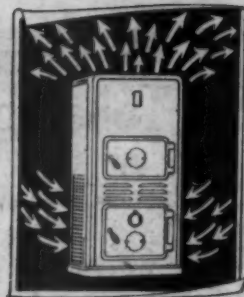
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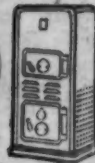
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The Sugarland Contract

Continued from page 14

with which he handled Petrie showed that. "Kelso told you to come in, did he?" he said, darting an impatient glance at Petrie, who was beginning to seethe again. "He did," replied Bly shortly. "And that's not all of it. We're going in." Pip smiled mockingly. "Go right ahead," he invited cheerfully. "We don't aim to hinder you. Let's be goin', Lum." "Don't hurry off, gentlemen," Gandy called after them as they turned back to the car; "we'll be havin' breakfast before long."

AFTER they had gone, however, he didn't appear so happy over the encounter. "That guy Petrie will cause us trouble in here," he said, "as sure as a cat laps milk." "Not so much afraid of Petrie as I am the fellow he called Pip," replied Bly. "You know the little fellow, Sol?"

"Know his name," replied Sol. "Pip LaFave. That's all I can tell you about him." "How far to Sugarland, Sol?"

"After we cross this creek bottom," replied Sol, "and get on top of a big hill—Alexander Hill, they call it—you can see Sugarland. About two-miles, I guess."

"What kind of a hill is it?" asked Bly. "Bad one?"

"Bad's no name," said Sol. "Need a full head of steam and a boiler full of water to make it."

It was a half-mile or better across the bottoms. "It is a bad one," said Bly. "Going to be a tussle to take the separator up this hill behind the engine. Got to do it, though."

"That's a wicked turn up there," said Gandy; "right where the pull is the hardest. We'd better leave the car and team down here till we get up, and come back for them."

"Not a bad idea," Bly nodded. "Get the chocks, Sol," instructed Gandy, "and bring them up here on the engine. We may need them."

"On the separator, are they?" "In the tool-box," Gandy told him. "Don't forget them. I'll chock with your head if you do—it's hard enough."

"She's ready to go," said Bly. "You steer and I'll handle the throttle."

HE opened the throttle and Sol scrambled aboard as the Wildcat lurched into motion. They went fogging up the grade briskly under the powerful urge of 160 pounds of steam in her boiler. But the steam gauge did not stand long at that figure. Once into the real pull the hand fairly jumped backward.

"Here, Sol!" shouted Gandy, "steer her while I fire." He bent his back over the scoop and began hurling coal into the fire-box. Under the terrific exhaust the suction through the flues was like a tornado.

"I can't hold her, Bly!" shouted Gandy. "You know her whims better than I do. Better grab this shovel. I'll handle the throttle."

Bly leaped down from his seat and began firing. Under his expert manipulation the steam gauge ceased to drop, and then crept up a bit, though slowly. It stood at 110 when they went into the pitch at the turn. When the engine struck this pitch its nose suddenly shot skyward.

"Bly," shouted Gandy, "she's goin' to flop!" He started to close the throttle.

"Don't!" yelled Bly, dropping the scoop and snatching the throttle back to the limit.

Into the curve they went, around it, almost at right angles; the road almost doubled on itself. Then they saw it—a huge boulder rolled square into the middle of the road. There was no way around it, and it was far too large to run over.

"Chocks!" yelled Bly, "chock her, quick!" "Where's the chocks, Sol?" howled Gandy.

"Where did you put 'em?"

"Forgot to get 'em," stammered Sol.

"Get 'em, Gandy!" entreated Bly. "I'll try to hold her where she is for a second."

Gandy dived for the separator tool-box, tore it open and snatched out the chocks—two 8 x 8 timbers each a foot long. He skidded one across to the left driver and plunked the other under the right just as the engine died and the drivers rocked back

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with a thump. There was a wild yell from Gandy and he held up a streaming hand, the fourth finger hanging by a shred.

"What's wrong?" exclaimed Bly, leaping down beside him. "Did she catch you, Gandy?"

Gandy seized the dangling finger, tore it loose and hurled it at the cringing Sol. "See what you caused!" he said.

"Good heavens, Gandy!" pleaded Sol. "I forgot all about them chocks! Gandy, I shore hate that! Come on, knock me in the head, if you want to—I deserve it."

"That's all right, Sol." Gandy drew out his handkerchief and stanching the flow of blood. "Anybody's liable to forget on a pull like this. We're all sleepy as hogs."

"Hurt you much, Gandy?" he asked, noticing the color leaking out of Gandy's face.

"Kinda numb," said Gandy, staggering; "makes me kinda dizzy."

"Sit down and rest," Bly instructed. "It's the shock. It'll wear off in a little while, then it'll begin to hurt."

GANDY wilted like a punctured accordion. "Go ahead," he said, "get that rock out of the road. Don't fool away any time with me. I'm all right."

It required the combined efforts of Bly and Sol to remove the boulder. "That was Pip LaFave's idea," pronounced Bly. "Petrie wouldn't think of such a trick, at least not so soon. Sol, if Gandy hadn't got them chocks when he did, this rig would have been piled up down there right now," he motioned toward the 20-foot grade at the curve.

"Gandy's a good-hearted feller," said Sol. "No better in the world," replied Bly, "but he's hot-headed. Let's see if we can get the old girl on to the top of the hill."

They walked back to where Gandy was stretched at the roadside, his face white.

"Gandy," said Bly, gently, "we're going to try to get to the top of the hill. You rest here and I'll take you up in the car."

"Go ahead," said Gandy faintly; "I'm all right."

DURING the enforced halt, the boiler, with a hot fire raging in the flues, had taken on a good head of steam. The safety valve was blubbing and hissing as Bly climbed back on the engine. "Take out the chock when I start," he instructed Sol, and jerked open the throttle.

The old Wildcat walked right on up the hill towing the 40-inch separator as easily as a boy would a chip. The hill crest was a couple hundred yards in extent and Bly stopped as soon as fairly level ground was reached. Then he went back down the hill at a trot, brought up the car and picked up Gandy on the way up.

"We'll just leave the old car here," he told Gandy. "Come back and get it after we get into Sugarland. You're in no fix to drive it now."

Gandy climbed upon a locker and Bly started the engine. When they arrived at the actual hill crest, where it broke over sharply, a magnificent country was spread out beneath them. Apparently as level as a table, dotted with well-kept farm buildings and grain shocks so thick that at that distance they seemed to touch each other.

"Sugarland!" exclaimed Bly, reaching for the whistle cord.

"Let her yell, kid," said Gandy, grinning wanly. Bly pulled the cord back and held it there. Below, and away off to the right, a cloud of black smoke towered into the air. As Bly released the whistle, a faint answering whistle cleft the air.

"Petrie's rig," said Bly, looking at Gandy.

"Petrie's rig," repeated Gandy, looking right back at him.

Continued in February

The FARMER'S ALMANAC

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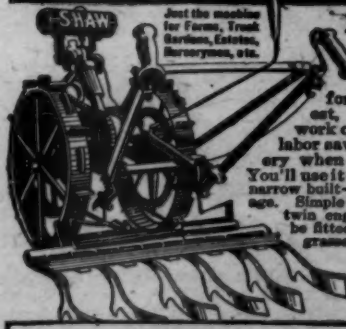
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The Safety Valve

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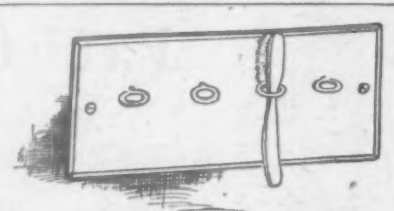
Farm Bureau and Taxes

DEAR Editor Farm Journal: Tim Webb in his "High Farming at Elmwood" in speaking the services of county agents being withheld from non-members of the Farm Bureau, unwittingly, perhaps, points out the unsoundness of the keystone supporting the Farm Bureau structure.

Indirectly we pay federal taxes, directly we pay state and county taxes for the support of the Farm Bureau program. Then if after paying these taxes we imagine that the service of the Bureau through the county agent might be of some benefit to us and

vester and thresher has made a hit in the western wheat-fields, for it reduces labor and increases capacity. A neighbor harvested, threshed and delivered to town his crop of wheat for six cents a bushel, using a combine pulled with a light tractor. Other neighbors, who harvested the old way, had to pay eight cents for threshing alone, to say nothing what it cost to harvest the crop.

Tractors are certainly labor-savers on a wheat farm. For example, take a bunch of horses into a field to plow in hard ground on a hot day; the driver can hardly work for fear of burning out his horses. Watch a neighbor with a tractor going round the field continuously. Why, that makes the man with horses feel like he is not doing anything; and he is not doing his share. H.



This little board was made to hold the family toothbrushes in the bathroom. Screw-eyes just the right size to admit the handles of the brushes were screwed into the board at regular intervals, and the board screwed to the wall with two round-headed nickel screws. The wood can be painted to match the woodwork of the bathroom, or some attractive native wood can be used, as redwood, cypress, gum or oak, and finished with oil in the natural color.

we call for said service we are bluntly told that such service is for the benefit of members only. Could anything more tyrannically un-American be foisted upon the farmer?

When we farmers quit looking around for AID to be handed us from above and take ahold in earnest to conduct farming as a business, recruiting our leaders from among our ranks as is done in the industries, then and not 'til then can we hope to rank with other industries and in fact be recognized as THE LEADING INDUSTRY in America, as we should. A. D. Larson.

What Children Read

SOME of the best magazines of the day are dealing in sex literature. Was nauseated to find one of the worst stories, lately, in a magazine that we had subscribed for, for the benefit of our H. S. sons and daughters, a magazine noted for its fine articles and found in our schools.

Another problem confronting the parents of our rural high school communities: Our courses in English call for a certain number of "plays" to be produced. We want our boys and girls to gain poise, to be at ease before people and learn to think on their feet, but the "plays" put on are so full of "mush" that we parents are heartsick over it. If the young folks themselves object to the kissing and pawing over, their grade is cut in English. We teach our boys and girls hands off, and graduates of our colleges come in and foster rot that leaves a "bad taste in the mouth" of even the young folks themselves. Books sent out for home reading in English and reported upon are so often not what we allow our children to read. One mother returned the book unread but that "peevish" the teacher and hurt the child's standing. What can be done? "What shall the harvest be?" A Kansas Mother.

A Tractor Farmer

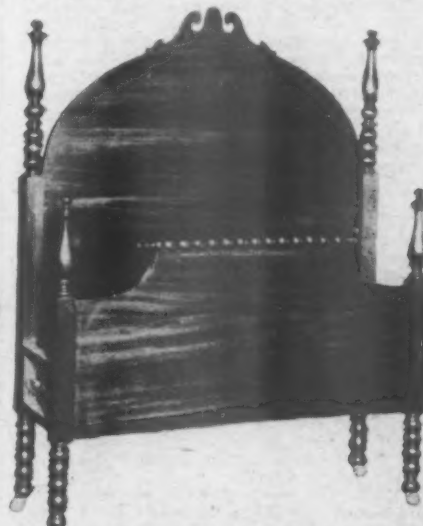
FARMERS here are taking to labor-saving machines to reduce production costs. They have found they must raise more at less cost to make money.

In the last few years the combined har-

Your New Furniture

Continued from page 11

The drawers are dustproof in construction. The bed to this "set" is shown below, and matching pieces include chiffonier with port-



able mirror, dressing table (or "vanity"), cane-seat bench and chair.

As this is the day of little tables we find them in all shapes and styles. The so-called "end tables" to be placed at the end of a sofa or couch can be placed beside a chair, as well. The one illustrated is designed to hold the various small articles one might want to have near at hand. There is a convenient book trough underneath. The top of this table is solid mahogany, the base is gumwood with mahogany veneer. A table such as this lends a decorative touch to any room and is a convenience, besides.



Nuts To Crack

By Sam Loyd

The Accommodating Old Year

THE year 1926 was accommodating from a digital standpoint, for the figures 1, 2, 3, 4, 5, 6, 7, 8 and 9 can be arranged in a simple sum to total 1926. Try it and see how quickly it can be accomplished. If you are apt at visualizing numbers, you should perform the feat mentally in five minutes.

After which, here is a little puzzle to work out:

What will be the next year that can be dealt with in the same manner; that is, made the total of a sum composed of the figures 1, 2, 3, 4, 5, 6, 7, 8 and 9, and without employing fractions or decimals? It will be quickly seen that 1927 can not be made to total from a simple sum of the nine figures; but how long shall we have to wait for another year that qualifies?

Geographical Riddles

What island ought to have many small fish? What river would be good to catch fish with?

To what mountains should you go to study geography?

What islands remind one of aimless chatter?

Four Words in One

In the first blank space of the following sentence place an appropriate word. Then separate that word into four other words which, in their natural order, will appropriately fill the second blank space:

"While in San Francisco some friends took me to a Chinese restaurant to ——— me and ——— chop suey for the first time."

Puzzling Felines

The answer to each of the following questions is a word containing "cat":

- What cat means a terrible event?
- What cat means a cave for burial?
- What cat means a book of questions and answers?
- What cat means a list of names in order?
- What cat means a western U. S. A. town?
- What cat means without defect?
- What cat means to seize?
- What cat means sudden suppression of motion?
- What cat means a waterfall?

ANSWERS TO DECEMBER PUZZLES

The cattle king's bequests: Each boy's tract is composed of three similar squares; so we multiply three by four to learn that twelve of those little squares constitute the area of the big ranch. The distance around the ranch is 16 times the length of one side of the unit square, and the partitioning fence is composed of eight lengths corresponding to a side of the unit square. Therefore, the length of fencing required to surround and subdivide the ranch is equal to 24 times the length of one side of the unit square. Calling the side of the unit square X miles, from the terms of the problem we deduce the simple equation: 12 (X squared) equals 24X, and X equals 2. This gives an area of four square miles to the unit square, of which there are twelve—a total of 48 square miles in the original ranch, and which corresponds to the number of linear miles of fencing.

A Revolutionary rebus: The historical incident was the "dropping of the tea into the sea," otherwise—The Boston Tea Party.

A Roman consul: Words set down: Lustrum, cull, plum, bush, all. Words struck out: String, plumb, hall. Remaining word: LUCULLUS.

Troy and avoirdupois: The connecting link between the weights is that 7,000 grains weigh one pound avoirdupois, while a pound troy weighs only 5,760 grains. The least weight that will register an even number of pounds on both scales is that which weighs 175 pounds troy, or 144 pounds avoirdupois.

In the dead-letter office: In their given order, the following American towns were to be found in the sentences: Oneida, Ravenna, Utica, Butte and Oswego.

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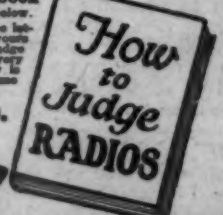
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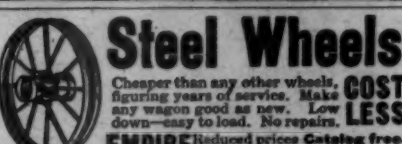


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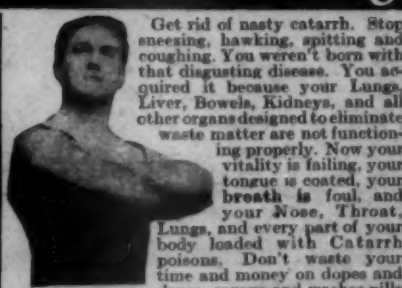
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Whipped Cream Substitutes

By
Ellen Peters

EVERY housekeeper knows that it is impossible to keep on hand a good supply of whipping cream; but there are several substitutes which can scarcely (if ever) be told from the real whipped cream, and which are especially helpful when preparing dinner or luncheon for unexpected guests, or when the whipping cream turns into butter or turns sour, as it frequently does during changeable weather.

The first substitute is made from evaporated milk. To make it, remove the wrapper from the can, then place the can in enough cold water to cover it completely. Bring it quickly to the boiling point and allow it to boil rapidly ten to twelve minutes. Remove the can from the water at once and shake vigorously for several minutes, open the can and pour the contents into a chilled bowl. When thoroughly chilled, whip the milk until stiff, and add a few drops of flavoring and enough pulverized sugar to sweeten. There is a slight difference in the various brands of milk, but none of it will whip successfully until it is thoroughly chilled, which means that it must either be placed in a bowl set in a pan of crushed ice (or snow), or the bowl must be placed in a refrigerator with ice. This substitute is especially good on fruit salad, fresh fruit, stewed fruits and on gelatin desserts. For a delicious salad, add sugar and a little vinegar to the chilled and whipped milk, then fold into crisp and finely shredded cabbage or lettuce.

The second substitute is made by placing the whites of two eggs in a chilled bowl, then adding one ripe banana which has been mashed fine, and a few drops of vanilla flavoring. Whip the mixture until stiff, then fold in enough pulverized sugar to sweeten. Four tablespoonfuls of freshly-grated apple could be used in place of the banana, if the apple seems more suitable for the rest of the dessert. Another pleasing combination is to take six or eight fresh marshmallows, cut into fine shreds with a pair of sharp scissors, then place in a bowl with two egg whites and a few drops of vanilla flavoring, and beat until stiff. This marshmallow mixture is especially good when it is used on slices of fresh angel food or devil's food cake, or on pumpkin or apple pies which have been chilled.

THE third substitute is also known as marshmallow cream. To make it, take one rounding teaspoonful of gelatin, one cupful of cold water, two cupfuls of granulated sugar, one teaspoonful of vanilla and one egg white. Pour three-fourths of a cupful of cold water on the sugar and allow it to stand 15 minutes, then place it on the stove and allow it to boil gently, without stirring, until it will spin a thread when dropped from a spoon. While the sirup is cooking, put the remaining one-fourth cupful of water on the gelatin, allowing five minutes for it to soak. Remove the sirup from the stove, add the gelatin and let stand until almost cold. Now add the flavoring and beat or whip until white and thick. Beat the white of the egg until stiff and gradually fold it

Topped with a substitute
for real whipped cream



into the sirup mixture. Pour into a jar and keep in a cool place. When ready to use, whip up lightly again, as the mixture has a tendency to separate after it stands. This cream is suitable to use whenever you could use ordinary whipping cream, and it can be varied by using different flavorings. If a chocolate cream is desired, add one ounce of melted chocolate just before adding the stiffly beaten egg white to the sirup.

□ □

Hot Drinks for Cold Days

HOT chocolate and coffee have always been standbys for cold weather, but most of us like variety, so here are a few suggestions for the thermos-bottle menu:

For hot egg-nog, beat one or two eggs until light. Mix with four tablespoonfuls sugar. Scald three and one-half cupfuls sweet milk and pour it onto the beaten egg, beating while pouring. Continue beating a few moments, then add one teaspoonful vanilla extract and a sprinkle of ginger or nutmeg. Pour into thermos bottle and cork tightly. This makes a delicious and nourishing drink.

Ginger lemonade has for its foundation a strong, hot lemonade. Add two tablespoonfuls of any fruit sirup or tart fruit juice, and a sprinkle of ginger. This is an excellent stimulant for any one who is working in the cold.

Hot cider with a little lemon or orange juice added is wonderfully bracing in cold weather. Hot ginger ale is also good, especially if a little fruit juice is added before corking the bottle. W.

The Farm-Sale Lunch as a Money-Maker

"WHAT do you do to earn money?" I asked the president of a country women's club.

"Serving lunch at farm sales is the best money-making field in sight for the rural club," she replied. "A year never goes by without at least a few sales. The men are always there, for it is a winter picnic for them. What is more, they generally bring along huge appetites."

"There can't be much variety for such a lunch, for it is too hard to manage. We serve vegetable soup, the bones for which are boiled the day before. The stock is then strained, the meat cut from the bones and run through a food-chopper and added to the stock. The next morning the vegetables are cooked in the broth. The soup is served piping hot and is popular on cold, blustery days."

"Sizzling hot wieners and nice rolls for sandwiches are always good sellers. And we do not forget the onions, for what is a wiener without this relish? We also have some kind of a sandwich made with sliced bread and ground meat."



Lined up for the hot lunch

"We use a tested grade of coffee and brew it the best we know how. The value of real cream is not overlooked. Since nothing tastes so good as hot coffee when the mercury is around zero, it sells readily in the afternoon for 'bracers.' The men do not like to leave the sale to come for it, so we carry it around through the crowd."

"We have a fine assortment of pies. Pumpkin, raisin, gooseberry, mince, cherry and chocolate are favorites. Sometimes we have a few more elaborate pies, but usually we stick to the staples."

"Paper plates, cups, forks and spoons are inexpensive and make the serving easier. These paper utensils are gathered up and burned with the rest of the debris when the sale is over and the crowd has disappeared."

"Ninety per cent of farm-sale days turn out to be unsettled or freezing cold, so we try to pick out a sheltered corner in which to serve. Even then many times the wind will whip around and upset our plans. It is not an easy way to earn money, but we always feel well repaid for the effort."

Judith Baskerville.

JANUARY, 1927

Avoid desserts
that overtax digestion. *Jell-O never does*



JELLO

AMERICA'S MOST FAMOUS DESSERT

It's a brave woman who can look her family in the eye and say: "There isn't any dessert!" . . . She may have the best motive in the world—she may feel sure that everybody has already had too much to eat—she may be trying to protect digestions and prevent disaster—but she's unpopular, and she knows it! Families want desserts.

Really, no luncheon or dinner seems entirely satisfying without that final bit of deliciousness . . . So a great many women have learned to say, often, "Jell-O for dessert!" Jell-O is as tempting as possible—but it differs from many other desserts because it requires very little digestive effort. Careful mothers know that it is quite safe

to give Jell-O to children, even after a substantial meal.

And Jell-O possesses food value unusual in a dessert. Nutrition experts, after a long series of experiments, have recently stated that this type of food supplies an important body-building element, directly influencing growth and strength. For this reason, also, many mothers serve Jell-O frequently.

Jell-O can be used in ever so many other dishes besides desserts. Fruit cocktails; salads; meat and fish dishes—all easy to prepare, wholesome and economical. Why not send for the new recipe booklet? Just mail the coupon . . . Of course your grocer sells Jell-O—five pure fruit flavors and chocolate.

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Six Farmhouse Essentials

By W. A. Foster

CONVENIENCE, comfort, completeness, beauty, economy, permanence—these are the six essentials sought in the modern rural home. Failure to include any one of these six is a failure to secure the best which the farm home demands and the farm folks deserve.

The accompanying plan is a typical first-class farmhouse plan of a type quite common throughout the Corn Belt states. While it embodies these essentials, there are two or more features which may be criticised justly. First—the extra room, which may serve for office, bedroom or study, is not isolated from the living-room and dining-room. While not so desirable as an office, it is well placed for entertaining when extra space is needed. The office might be placed in basement, where greater privacy can be had.

Another thing—one can not pass from sleeping-rooms to basement to tend the furnace without going through the kitchen. The family for whom this plan was originally prepared sacrificed the basement stairway under the stairs to have the additional closets.

The kitchen—the most important room in the whole house—is of medium size, well-lighted, with cross-ventilation, and convenient. It is quite accessible to stairs, basement, front entrance, dining- and living-rooms. There is wall space for cupboards, work-table, stores, sink and cleaning closet. The range sits in a niche next to the chimney, which insures a good draft. A hood which carries away the steam, odors and heat connects with chimney. This room is placed in the front of the house. Farm women like the kitchen in the front of the house.

The dining-room, with its large table, is a center for the farm family. After the evening meal it is a convenient place to read the daily news, work tomorrow's arithmetic, mend clothing or play checkers. This dining-room is large—big enough for a large threshing crew. Its width permits quick service about the table.

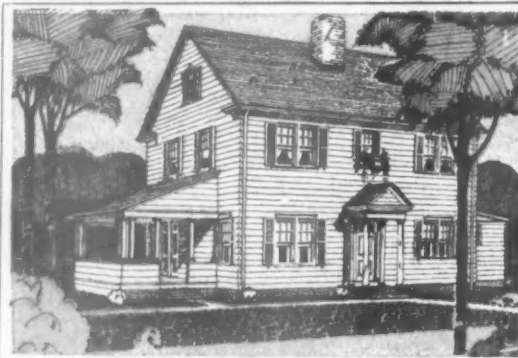
THE living-room is large enough for most families, but could be made larger if the office were put in the basement. A porch at the side shelters the room from the hot sun in summer and storm in winter, and provides a splendid place for evening recreation.

The appendage on end toward barn contains vestibule, wash-room and stairs to basement. Space for refrigerator is provided convenient to kitchen.

Four good bedrooms with cross-circulation and good-sized closets are placed on second floor, with bathroom and bedding closet. A towel-case is placed at head of stairs, with clothes-chute next to bathroom door. A case with cupboard and drawers at opposite end of corridor provides storage space for sewing, and out of season garments which must be packed away. Each bedroom is planned for two or more bed spaces: one between windows for summer breezes, and another away from drafts in winter. The bathroom is of medium size and is shown with built-in tub, sanitary closet and lavatory with medicine-cabinet above. A shower can be installed over tub.

The attic is reached from the closet off the kitchen chamber, and there is space enough for attic rooms if needed. The basement provides space for the heating plant, laundry equipment, fuel room, fruit and vegetable storeroom. A work-room, wash-room or office can be placed in basement if desired. Since this space may be used for many purposes, the entire basement should be excavated. The arrangement of first floor governs the basement plan, since it is always desirable to use the basement partitions for bearing walls. [Sketches of basement plan will be sent to those interested.—Editor.]

This plan is adaptable to several types of exteriors. It may be built in the western, the Dutch colonial, the prairie style with its low hip and wide extending cornice, or in modern colonial. A perspective of the latter is shown. Simple in line and mass, economical in use of materials and free from needless decorations, it is adaptable to most any setting.



If exterior is white, dark green shutters make a pleasing combination

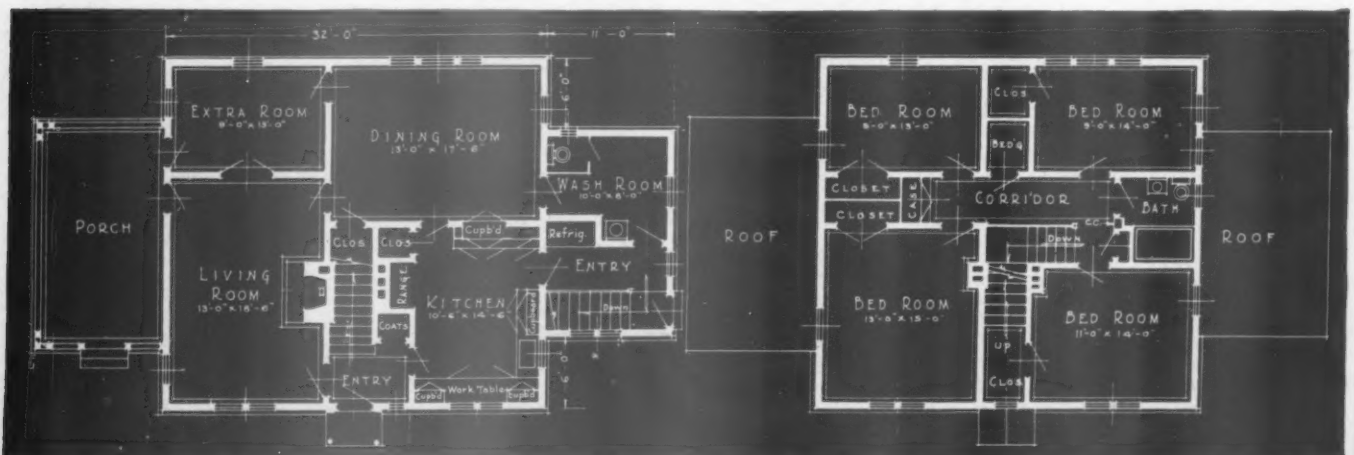
THE foundation should be built of cement or clay products, both excellent permanent materials. If the latter is used, the brick or tile should be laid up in a cement mortar. The part below ground can be kept dry by painting the exterior of the foundation wall with a waterproofing compound, many of which are on the market, and using pitch-filled joints where floor meets wall, provided a reasonable drainage system is installed. The part above ground can be faced with a face material, such as brick, rock-surface concrete, or plaster applied in many ways.

Frame construction is shown. While wood is a splendid material, its growing scarcity and correspondingly greater cost sometimes makes other more-permanent and fire-resistant constructions desirable.

Insulation can be secured by using synthetic materials for the first coat of plaster on inside, for sheathing, or between walls and finished surface. There are a number of these materials on the market, some made from vegetable fibers and others made from mineral products. Their cost is about the same as the materials replaced, they are easy to apply and offer increased insulation.

The roof is simple, without valleys or hips. The roof covering chosen should not only function well in shutting out rain and storm, but at the same time be attractive, durable and fire-resistant. The fire-resistant quality alone insures greater safety from fires originating on the roof, and reduces the insurance rate. The composition roofing material with mineral surface makes an attractive roof, one which is light in weight, durable and hard to ignite. Copper is one of the best and most permanent of these materials, although expensive. Copper gutters and down-spouts will last indefinitely. Slate, tile and composition slate are heavier, and require heavier roof framing.

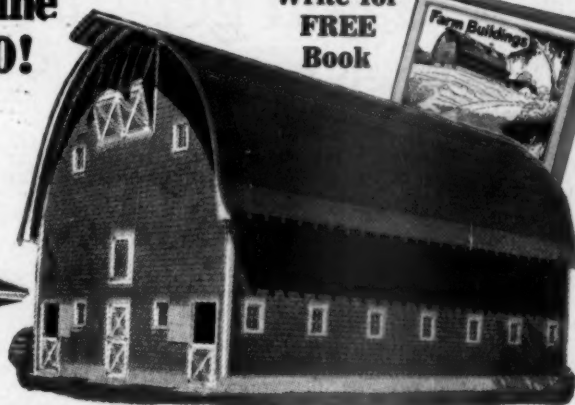
The porch and opposite appendage may be roofed with a flat deck, with baluster or with a lean-to construction. While the latter is cheaper, the deck permits the airing of bedding, which is desired by many farm women.



JANUARY, 1927

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Do you get "stage fright" —when you have to bake for company?



"Hurry up, dear! Bob and Mary Ann will be here in an hour! Isn't that lovely?"

UNEXPECTED company coming; you must make a cake! In the hurry of preparation, have you ever care-fully opened the oven door—to find it a flat failure?

If you have, without doubt, you'll thoroughly appreciate the feelings of this Ohio woman who writes:

"With me as with many women, cake making had always been more or less of a game of chance. And, of course, if company was coming that was the time 'something always happened!' But I've found that Swans Down does away with all such worry and bother. Cakes baked with it are always good—and what a relief it is!

"In addition to all this, Swans Down saves enormously in eggs, butter, milk and other good things that go into cakes. For one thing, it is possible to make a perfectly plain, common, every-day cake into a really tempting dessert by the use of Swans Down. I never hesitate either to try elaborate recipes because I know I can rely on Swans Down to carry me through to a successful finish."

It is this unusual combination—downright economy and never-failing results—that has made Swans Down so universally popular. Even the simplest, one-egg cake made with Swans Down is so soft and feathery and delicate in texture it ceases to be "plain cake" and becomes a real delicacy.

Just what Swans Down is

Swans Down Cake Flour is not just another flour; it is a different kind of flour, specially milled from a particular kind of soft winter wheat grown only in the vicinity of the Swans Down mills.

The delightful delicacy and fluffiness of texture which Swans Down always gives are due to these three things: 1—the particular kind of soft winter wheat selected; 2—the part of the kernel used—only the most delicate inner portion is choice enough for Swans Down; 3—the special process by which Swans Down is milled 27 times as fine as good bread flour. One hundred pounds of selected wheat yield but 26 pounds of Swans Down Cake Flour.



Ask your grocer for Swans Down Cake Flour. If he does not have it, send us his name and we will see that you are supplied.

IGLEHEART BROTHERS, INC.
3001 First Ave. Est. 1856 Evansville, Ind.
DIVISION, POSTUM CEREAL COMPANY, Inc.
MAKERS OF: Swans Down Cake Flour, Jell-O, Postum Cereal, Instant Postum, Grape-Nuts, Post Toasties (Double-Thick Corn Flakes), Post's Bran Flakes and Post's Bran Chocolate

SWANS DOWN

Prepared (Not Self-Rising)

CAKE FLOUR

Preferred by Housewives for 32 Years

Toasted Coconut Cake

All measurements level. Sift flour once before measuring.

1 1/2 cups sugar
3/4 cup butter or substitute
3 eggs
1 cup water
3 cups SWANS DOWN CAKE FLOUR
2 teaspoons baking powder
1 teaspoon almond extract
Sift flour, measure, add baking powder, and sift two or three times.

Cream the shortening. Add the sugar gradually, creaming until light and fluffy. Add the eggs unbeaten, one at a time, beating batter hard after addition of each egg. Add water and dry ingredients alternately, beating hard after each addition. Add flavoring.

Bake in 3 layers, in moderately hot oven (375° F.) for 35 minutes.

Put layers together with a white cooked or uncooked icing and cover with toasted coconut (see Cake Secrets column).

For directions for toasting coconut, see Cake Secrets column.

You'll want this cake set!

Only \$1.00 (\$1.25 at Denver and West, \$1.50 in Canada) for complete set of Swans Down Cake Making Utensils, such as we ourselves use. We buy in carload lots and sell to you at our cost. Just pin a dollar bill (money order or check) to your letter and mail now. Money refunded if not entirely satisfactory.

"Cake Secrets" is only item in this set sold separately. Send 10 cents, money or stamps, for a copy.



Set consists of:

8 1/2-in. Patented Angel Food cake pan (tin)
8-in. square heavy cake pan (tin)
Set aluminum measuring spoons
Aluminum measuring cup
12-in. steel spatula (to remove and ice cake)
Slotted wooden mixing spoon
6 1/4-in. wire cake tester
Sample package Swans Down Copy of recipe booklet "Cake Secrets"

No orders accepted for shipment outside United States or Canada

Cake Secrets

Whenever you have questions to ask about cake making, write us—we shall be delighted to give you any information we can.

Our busy friends in farm homes surely do seem to place a high value on Swans Down: "If you had as many men folks to bake for as I have, you'd realize how much it means to be able to stir up any cake—plain or fancy—and know when you put it in the oven it will come out as good as the best. My 'best' at any fair can pretty near be depended on to take a blue ribbon."

To toast the coconut for this cake spread it evenly in a pan and place in a very hot oven, stirring frequently. When completely browned remove and roll or break up in fine pieces. Then sprinkle over the top and sides of your cake.

This recipe makes quite a rich cake, unusually light and fine grained. If you wish you can use only two-thirds of the recipe as given and bake it in two layers and, if you like, put it together with a Lady Baltimore or orange cream filling. This is a particularly tasty orange filling:

1 cupful sugar
5 tablespoonfuls Swans Down Cake Flour
Grated rind 1 orange
1/2 cupful orange juice
3 tablespoonfuls lemon juice
4 tablespoonfuls water
1 egg slightly beaten
2 teaspoonfuls butter

Mix ingredients in order given. Cook ten minutes in double boiler, stirring constantly. Cool before spreading.

An oven thermometer is essential to proper baking. We can now supply you with a standard thermometer, postage prepaid, for \$1.00 (\$1.25 at Denver and West, \$1.50 in Canada).

Here's a simple recipe I know you'll want to try. It's my favorite hurry-up Crumb Cake—you can almost make it while Cousin Minnie powders her nose:

2 1/2 cups Swans Down Cake Flour
1/2 cup soft butter
2 cups brown sugar
Mix well together; take out 1/4 cup of mixture for top. Add to remainder:
1 egg
1/2 cup sour milk
1/2 teaspoon soda
1 teaspoon cinnamon

Beat hard until the batter is smooth. Pour into greased pan (8" x 8" x 2"), sprinkle the crumb mixture over the top. Bake in moderate oven (325 degrees F. for 20 minutes, then 340 degrees F. for 20 minutes).

If any of your friends are being married this month and you want to give a really delightful "shower" gift, you'll be very much interested in the Special Cake Set offer in the column at the left. And don't forget if you're ever in Evansville we'd love to have you visit our kitchen.

Always cordially yours,

Mary Jane Hart

Domestic Science Dept.
Igleheart Brothers, Inc.
3001 First Ave., Evansville, Ind.

Refreshments for Your Party

By
Florence Taft Eaton



FOR an evening party where games, music, charades or something similar is to be the entertainment, a little supper should be served about ten o'clock. The table should be arranged beforehand and the food planned so as to be practically ready to serve. One or two helpers (a member of the family or an outsider), will be needed in the kitchen to accomplish the last-minute jobs.

Arrange the table as attractively as possible, and see that the silver is polished and glasses bright. A bare table, partly covered with an ornamental square or doilies, is prettiest. Let the artistic member of the family attend to the decorations. A big colored (or glass) bowl, in which the seasonal flowers are gracefully arranged, makes a charming centerpiece. Use a flower-holder in the bottom so the sprays need not be crowded. A glass basket, which you can buy for 25 cents, makes a lovely container. Four smaller ones (from the 5 and 10 cent store) can be added if you wish; or four tall, slender glass vases (also from the "5 and 10"), each holding a single tall blossom, will be attractive. Or nothing is prettier than a candle-light table. Glass candlesticks and

a little lard in the crack where the cover joins the mold and pack solidly in finely cracked ice and salt (three parts ice to one of ice-cream salt) and let stand about five hours. Blood oranges make most attractive ices by this recipe—or strawberry or raspberry juice can be used. This amount should serve twelve. If you do not have a brick mold, use the can to your freezer.

For a delicate cake follow this recipe: One tablespoonful of soft butter, 1 cupful of sugar, 2 well-beaten eggs, $\frac{3}{4}$ cupful of milk, $1\frac{3}{4}$ cupfuls of pastry flour, $2\frac{1}{2}$ teaspoonfuls of baking-powder, a pinch of salt and 1 teaspoonful each of lemon and vanilla extract. Combine in the order given and bake in very small gem pans. Cover with white and with chocolate frosting, decorating the latter with nut-meats, the former with halved cherries and leaves cut from citron.

IN cold weather, serve a substantial dish (plenty of it) with sandwiches or fancy bread and a few frills.

Ringum Tiddy will please. It requires 1 pint of tomato, highly seasoned and cooked like a sauce. Place in a saucepan or chafing-dish and add $\frac{1}{2}$ pound of diced cheese; stir and cook until cheese is melted, adding 1 teaspoonful of mustard and a few drops of Worcestershire sauce (if at hand). Lastly, stir in a beaten egg; cook for a minute and serve hot on toast. Accompany this with plates of thinly sliced brown bread, spread with cream cheese moistened with catsup or milk. Arrange in a wreath of overlapping slices. Plates of any favorite sandwiches can be added, or tiny baking-powder biscuits, reheated, buttered, with perhaps a thin bit of crisp bacon in each.

An equally inexpensive menu follows. This requires more time for preparation, but also affords more variety.

Croquettes with Peas and Carrots
Vegetable or Tart Jelly Sandwiches
Sherbet Coffee or Cocoa
Fancy Cakes

Croquettes can be made of any preferred ingredient. The best brand of canned tuna fish makes delicious croquettes, and is all ready to use—a great advantage. Rinse, drain, flake rather fine the contents of a large can, and mix with a liberal amount of very stiff, highly seasoned cream sauce (about a pint). Spread on a large platter, and when cold and stiffened take off croquette-sized forkfuls; roll with a fork in fine crumbs, then in beaten egg to which two or three spoonfuls

of water can be added, then again in crumbs on a board, to shape. Fry in very hot, deep fat; drain on soft paper and reheat for serving. Arrange on a hot platter around a mound of peas and carrots (carrots diced the size of peas), garnish with parsley and serve very hot. This quantity will serve 20 people. Don't try to make the croquettes too large.

Vegetable sandwiches are made with lettuce or thin slices of tomato or cucumber sprinkled with salt and thinly spread with mayonnaise dressing. Use thin slices of buttered bread, trim off crusts and cut into triangles. Cover with a damp cloth and set in a cold place until needed.

Milk sherbet is delicious. To make, put 1 quart whole milk in a freezer and pack with salt and ice. When milk is quite cold (so lemon juice does not curdle it) add juice of 4 medium-sized lemons and $1\frac{1}{4}$ cupfuls of sugar, beaten together until sugar is dissolved, then freeze as usual. When fruit is in season, serve the sherbet in glasses and top with a spoonful of crushed and sweetened fruit or berries. A good brand of evaporated milk can be used instead of fresh milk, in making this sherbet. You could also buy plain vanilla ice-cream (half the usual amount) and top liberally with whipped cream mixed lightly with quartered strawberries, raspberries or sliced peaches.

Fruit gelatin is an attractive substitute for ice-cream. It is nothing more than a plain lemon jelly, made by the recipes found on the box, with chopped figs, dates and nuts and any fresh fruit or berries added when it begins to stiffen. Serve with boiled custard or whipped cream.

If **lemonade** is selected as your drink, add a few berries if in season, a little cold tea or a bottle of ginger ale if you wish, and add a bunch of tall sprays of mint to the mixture, converting it into a simple, but delicious, fruit punch.



Arrange forks and spoons in fan shape

tall colored candles can be obtained from the same invaluable emporium.

Something fairly substantial served hot is used for the main dish. It can be prepared in a chafing-dish on the table, or in the kitchen and brought in at the last moment, in gay bowls or on fancy platters. Arrange a pile of plates (heated) at each corner and on each pile place a few folded doilies or paper napkins. Arrange forks and spoons in fan shape, as in the illustration. Plan places for sandwiches, cakes and other dishes to be brought in, just before serving. Knickknacks, such as home-made candy, salted peanuts and candied orange peel, can be placed on the table when set. Cold water and glasses are placed on the side-board or serving-table, and in warm weather an iced drink can be planned for. In cold weather, serve hot cocoa or coffee (poured in the kitchen). Place a marshmallow in each cupful of cocoa.

SHOULD you wish to serve just ice-cream and little cakes, with a few knickknacks and beverage, this is sufficient and proper. Following is the recipe for a home-made ice that looks most professional. This is the "packed" sort, that needs no previous freezing. I have often made it myself, with or without help, for as many as 60 young people.

Concordia orange ice: One cupful cold water and 1 tablespoonful of gelatin; let stand 15 minutes, then pour over it a boiling sirup made with 1 cupful each of water and sugar, boiled together for three minutes; stir. Add the juice of 6 oranges and 1 lemon, stir to dissolve, pour into a two-quart brick or other mold. Whip 1 pint of cream until stiff, sweeten to taste, add $\frac{1}{2}$ teaspoonful of vanilla, and pour into the mold. The mold should be full. As the cream stays on top and there is a difference in the amount of juice in oranges, it may be necessary to add more orange juice and water. This can be poured in at the side. Rub



Rugs from the Rag-Bag

PLEASURE and profit are found in making rag rugs because of the joy in making use of otherwise useless material. Then, too, by using home-made floor-coverings in some rooms, the thrifty housewife finds she can afford to buy a better quality of machine-made rugs for other rooms.

With home-made rugs so popular, any new way of manipulating material is welcome. While hooked and braided rugs are first in favor, the rug shown in Fig. 5 will surely engage attention. The foundation of this rug is heavy, unbleached-cotton sheeting. There is a border made of strips of felt with pinked edges, stitched in place. The center is covered with circles of black cloth decorated with smaller circles in contrasting colors and in two sizes. These circles are laid one upon the other on the black foundation and fastened down with crossed stitches (caught in the center) of heavy floss. The edges of the finished circles are stitched to the foundation by machine. The rug shown was made of new felt, in several shades of tan and rose, also green, a pinky lavender and blue. Discarded felt hats (men's and women's) can be

The Household Editor tells the secrets of this most pleasing and profitable art

round until you come to the last few stitches of the row, take up the loose end, hold it in place and crochet right over it. When you reach the last stitch in the

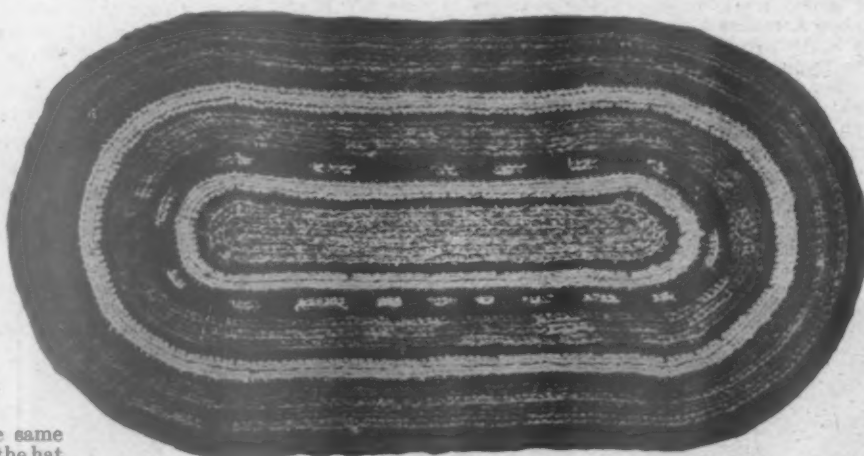


Fig. 1



Fig. 2

ish green and black, and each row is finished so that the bands of color are complete, with no unsightly changes from one row to another. To do this, thrust the crochet hook through a stitch of the preceding row, pull cloth through to make a loop leaving a loose end (on the wrong side) four or five inches in length. Chain 2, then make a s.c. in next stitch of preceding row, work all the way

used in the same way. Cut the hat so it can be laid out flat, wash clean in a warm, thick lather, rinse, allow to drip, then press until dry under weighted boards. Use a small saucer as a guide for cutting the black circles, and spools for the smaller circles; mark around the edge of guide with a soft lead pencil, then cut out the circles.

The rug shown in Fig. 1 was made of heavy rags, cut a little wider than usual, so it is very firm and has good wearing qualities. The colors are various shades of brown, gray-

row, cut the strip, leaving about one-fourth of a yard; pull this loose end through the stitch, turn the rug with the wrong side toward you and pull the loose end through the chain stitches at the beginning of the row. Start each row in a different part of

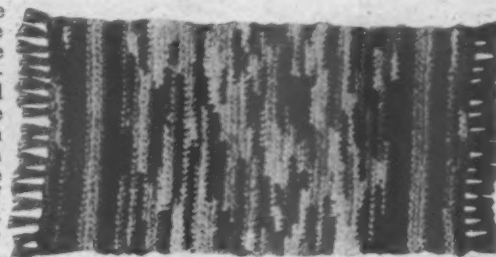


Fig. 3

the rug, using the same methods, and when you come round to the loose end crochet over it, as you did in the preceding row. By starting the rows at different points, the joinings do not show. The rug illustrated was made largely of old khaki pants, black stocking legs and umbrella covers, green cotton crêpes and chambray.

A quickly-made rug [Continued on page 87]

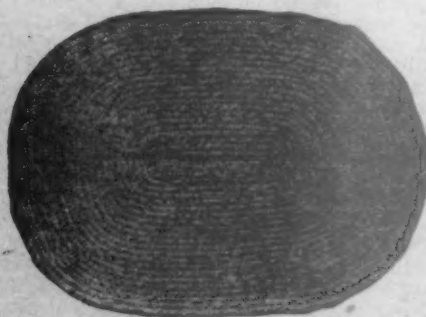


Fig. 4

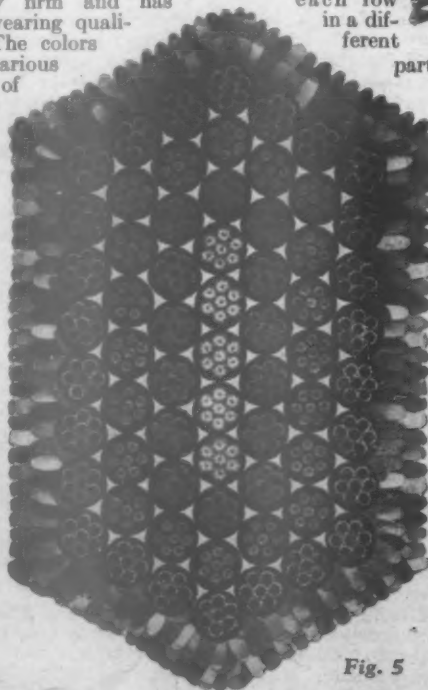


Fig. 5



Fig. 6

A Sweater Suit Without Knitting

By Sarah Claypool

MAKING a sweater suit without knitting is more simple than it sounds. Use an old sweater, either a slip-over or a plain buttoned one, as heavy or as light as you want the baby's suit to be.

Make the leggings first, using the sleeves of the old sweater, just as they are. Rip out the sleeves, then rip the seams of the sleeves down to where the crotch will come. With matching yarn, crochet or sew these pieces together to form the upper part of the leggings, cutting the front

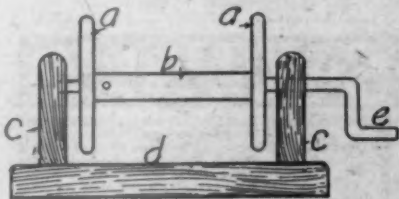


part a little shorter, so it will fit over the body. Be sure to leave the back long enough so Baby can sit down comfortably. Finish the waist by tying all loose ends and running a narrow elastic through the loops of thread left when you ripped the sleeves out; or put a facing of tape around the top and run elastic through that. Put bands of elastic on the bottom of the leggings to hold them snugly around baby's ankles, and the leggings are finished.

The coat part is cut out, then sewed. Measure the length needed from shoulder to hem and, using any waist or coat pattern which fits the child, cut the back and the fronts all in one piece so that seams will come only on the shoulders. Cut out sleeves and sew or crochet them to the coat part. Hem or face front openings and finish with buttons and buttonholes or snaps. If care is used in getting all the loops fastened, buttonholes can be worked as in cloth. Crochet once or twice around the neck and cuffs or finish with needle and thread to keep from raveling. A cap and mittens to match can be made of the scraps. If the sweater is not a desirable color, dye it, remembering that yarn takes twice as much dye as cloth.

• •

A Reel for String

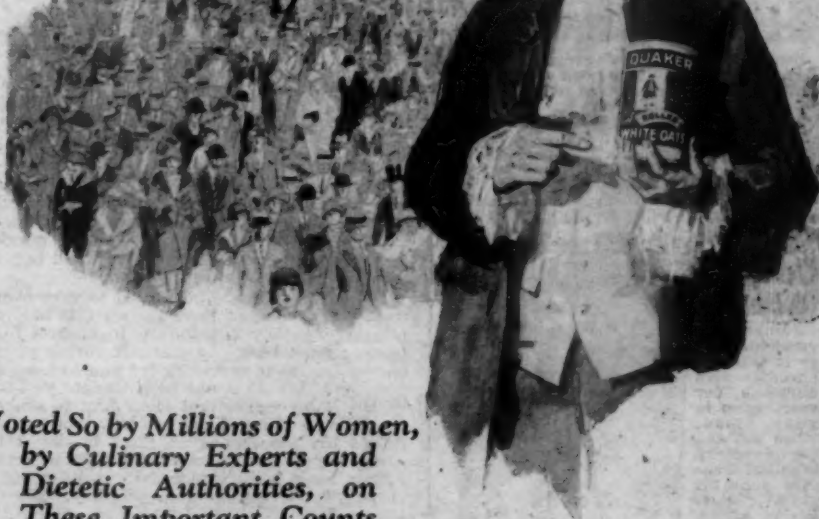


A handy little article to have around the kitchen or pantry is a small reel for waste string. When pieces are taken off of packages, etc., it only takes a moment to wind on the reel, then when string is required it is always at hand and in good shape.

A reel for holding string can be made as follows: Take a short section of broomstick, b, and nail disks of thin wood or metal, a, a, to the ends. The reel is supported by mounting two wooden uprights c, c, on a base, d. The uprights have a small hole near the top through which a nail or short piece of heavy wire is driven into the center of the spool ends. The wire of one end is long enough to bend into the form of a crank, e. Each new piece of string put on the reel is tied to the end of the last piece.

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To feel right you must have well-balanced complete food. At most meals you get it. That is, at luncheon and dinner. But the great dietetic mistake is usually made at breakfast—a hurried meal, often badly chosen. That is why Quaker Oats is so widely urged today. The oat is the best balanced of all cereals grown.

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Marriage Problems and a Social

By Aunt Harriet

I HAVE been married only a few months, but am very unhappy. I have kept my position and my husband objected to my buying a dress with the money I earned. He also finds fault with the complexion cream I use, and fusses about the money I spend on cosmetics. I earn the money and think I have a right to spend it as I choose, but there is a scene every time I buy anything. Please tell me what to do for I am Desperate.

Every one knows that the first year of married life is the hardest, for it is a period of adjustment, and it takes tact and forbearance and great love, so there are many good reasons why young people should begin married life in their own homes.

I fear that you are both used to your own way, but you must have known this before marriage. Surely the failure to control his temper must have shown itself during your courtship. Is it necessary for you to keep a position? Would it not be better for you to be the home-maker and allow him to make the living? While I can see how you would resent his annoyance at your buying the dress, if you have planned together to save money for a home and furniture, your purchase may have seemed unnecessary. Then, too, a bride is supposed to have an outfit sufficient for a year at least, so it may have seemed like extravagance to your husband, although I can see where you would feel free to spend your earnings as you please.

Did you use the cream mentioned before marriage? If so, I do not see how he can object to it now. It is possible that the odor of it may be unpleasant to him. In that case you could use another make of cream. It is inconceivable to me how men will ignore the use of cosmetics until they are married and then object most strenuously.

Happiness in married life is only gained by giving up and giving in many, many times, but one does not need to lose all individuality by so doing. The thing for you to do is to have a frank talk with your husband, telling him that it is as hard for you to give in as it is for him, but that you hope that your love for each other will enable you to bear with one another until you have come to a better understanding. Promise that you will do your part if he does his, make up your mind that you will meet your difficulties with patience and forbearance, and avoid telling your domestic troubles to your family and to your friends.

PLEASE suggest something novel in the way of a social for the

Young People's Society.

A "Back to the Farm" social is suggested by a party given in a little church up in the Connecticut hills. Posters and invitations were decorated with pictures of vegetable gardens and farm scenes (cut from magazines and seed catalogs). Guests were asked to come wearing costumes or devices which represented flowers, fruits or vegetables, each guest being given a number.

The floor was marked off (with chalk) into plats which were also numbered, and each plat represented a miniature farm. The boys and girls took the plats corresponding to their numbers and proceeded to develop them. Each couple then built a house, a barn, a poultry-house, set out trees and raised crops. Spaces were marked off, and on these spaces they wrote the name of the crops raised thereon; the buildings and trees were drawn with crayon.

The farmer having the best general layout, as to proportion, was awarded a prize. Some farms were out of proportion, having too much of one crop and not enough of another, or too large buildings for the size of the plat. The prize for boys went to one who had the necessary house and outbuildings, a silo, an orchard, a variety of crops and a brook. The prize for girls went to the one who wore the prettiest and most original costume. Prizes were also awarded to those guessing the largest number of devices. Old-fashioned games followed, and refreshments included gingerbread, doughnuts, apples and cider.



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Facts About Deep Frying

KITCHENS are smoky when food is fried or sauté, because fat is improperly used. Too high a temperature causes the fat to decompose or burn; and in burning, a chemical change takes place which results in smoke or disagreeable odors. When fat begins to smoke it is too hot.

One very important point to remember is that fat should be put into the pan or kettle before placing it over the heat. Heating the pan first, then putting in the fat, frequently results in the burning of the fat, as the cook does not know the temperature of the pan. When frying in deep fat, place but a small quantity of the food in the hot fat at a time. The addition of the cold food reduces the temperature of the fat, and if added too quickly the temperature will be lowered to such an extent that the food will cook slowly and absorb the fat.

The best quality of fat is always the most economical. A high-grade vegetable shortening or the very best salad-oil—either is quite as satisfactory as pure leaf-lard, and either can be clarified quickly and used repeatedly.

By careful selection of materials and proper manipulation, deep frying can be made a very satisfactory form of cookery, as the food is quickly seared and absorbs less grease than when cooked in a small quantity of fat. But avoid the frequent serving of any kind of fried food, for it is always more difficult to digest than food which has been boiled, baked, roasted or stewed.

Rules for Testing Fat for Frying

1. Heat the fat, then add a piece of bread one inch square, cut from the soft part of loaf, and if in 40 seconds it is golden brown, the fat is then the right temperature for frying any cooked mixture.

2. Use the same test for uncooked mixtures, allowing one minute for bread to brown. Do not allow the fat to become "smoking hot," as this means a temperature of nearly 500° F., which is entirely too high for successful frying.

Fresh oil or lard should be used for batter and dough mixtures and potatoes. Fish, meat and croquettes can be fried in fat which has already been used.

To clarify fat, first melt, then add a raw potato cut into quarter-inch slices, and allow to heat gradually; when the fat ceases to bubble and the potato is well browned, strain through double cheese-cloth (placed over a wire strainer) into a pan. The potato absorbs any odors or gases, and collects to itself some of the sediment, the remainder settling to the bottom of the kettle.

A good and inexpensive fat compound is made by mixing thoroughly together two parts fat from suet with one part cotton-seed- or corn-oil, or lard. To try out the suet, cut into small pieces, put into a saucepan, cover with cold water and place on the stove uncovered, so that the steam can carry off any disagreeable flavor. When the water has nearly all evaporated, set the kettle back and let the fat slowly "try out." When the fat has ceased bubbling and any scraps of skin are shriveled, allow the scraps to settle to the bottom of the kettle, strain the fat through a cloth and set it away in a cool place until ready to mix with the other ingredients. To mix, measure, then reheat, add the oil or lard and stir until well blended. This compound will be found very satisfactory for general use.

An interesting experiment conducted in schools throughout the country that concerns your child at home



LAST YEAR, through one of the educational magazines, teachers were offered a new plan for installing a hot lunch in their schools. The success of this plan was remarkable. You will want to utilize it in connection with your child's diet at home.

It was called to the attention of teachers that just one hot dish—a nourishing, steaming hot drink—alters the whole character of a cold lunch. The hot drink presented in the plan was Instant Postum made with milk. It fits the need ideally. Postum is made of wholewheat and bran, roasted. To these wholesome ingredients, hot (not boiled) milk is added, and a little sugar. The result is a delicious, supremely wholesome drink which provides needed nourishment and warmth, and makes the meal more appetizing.

The response to the Postum Plan was tremendous. Recently a number of teachers who had received it were asked, by letters, about their experiences. So far, 357 teachers who tried the plan have been heard from. Of these, 338 report success in glowing, enthusiastic terms.

Here are some of the things the teachers said: "The children who were underweight picked up rapidly" . . . "The pupils return to their lessons with less fatigue" . . . "The children have more

energy and appear happier. They do not seem to feel the cold weather as much" . . . "Our gain in school work, as a result of the hot lunch, amounted to at least 50%" . . . And so on and on, in hundreds of letters!

This is important to mothers, for two reasons: If your child is in a school where no hot lunch is served, you can bring the Postum Plan to the attention of the Principal. Your child, and every other child in the school, will benefit. In the second place, doesn't it seem to you that a drink which has won such praise should be included in your child's diet at home? All the advantages which appeal to the teachers will appeal to you, also, as a busy, conscientious mother.

*We will send you, free,
the Postum Hot Lunch Plan*

This is a special offer to mothers, that will not be made again . . . We will send you, free, the booklet describing in full the Postum Hot Lunch Plan. In addition, we will send a booklet on Instant Postum made with milk, for home use, and one week's supply of Instant Postum, free.

Accept this generous offer. Fill out and mail the coupon.

MAIL THIS COUPON NOW!

P.—F. J. 1-27
POSTUM CEREAL CO., INC., Battle Creek, Mich.
Please send me, without cost or obligation, the Postum Hot-Lunch Plan, together with the booklet on Instant Postum made with milk, and one week's supply of Instant Postum.

Name

Street

City State

In Canada, address CANADIAN POSTUM CEREAL CO., Ltd.
45 Front Street East, Toronto 2, Ontario

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Postum is one of the Postum Cereal Company products, which include also Grape-Nuts, Post Toasties (Double-thick Corn Flakes), Post's Bran Flakes, Post's Bran Chocolate, Jell-O and Swans Down Cake Flour. Your grocer sells Postum in two forms. Instant Postum, made in the cup by adding boiling water, is one of the easiest drinks in the world to prepare. Postum Cereal is also easy to make, but should be boiled 20 minutes.

FARMER'S
ALMANACJANUARY
1927In January, cold and thaw
Conspire to make your throat get rawAvoid that danger pleasantly
By sticking close to safe "S-B."

- | | |
|--------|--|
| 1 Sa. | New Year's Day |
| 2 Su. | First Parcel Post package delivered 1913 |
| 3 M. | New MOON |
| 4 Tu. | Hot stove league settles fate of nation (every year) |
| 5 W. | Capt. J. Smith captured by Indians 1608 |
| 6 Th. | Fish stories longer and heavier than ever 1927 |
| 7 Fr. | First National Election in United States 1789 |
| 8 Sa. | Battle of New Orleans 1815 |
| 9 Su. | Standard Oil Co. incorporated 1870 |
| 10 M. | FIRST QUARTER OF MOON |
| 11 Tu. | Alexander Hamilton born 1757 |
| 12 W. | John Hancock born 1737 |
| 13 Th. | Samuel Woodworth, author of "Old Oaken Bucket" born 1785 |
| 14 Fr. | Hartford adopts first written Constitution known to history 1639 |
| 15 Sa. | First locomotive for use in U. S. built 1831 |
| 16 Su. | Man asking "Cold enough for you?" slain with snowshovel 1902 |
| 17 M. | FULL MOON |
| 18 Tu. | German Empire established 1871 |
| 19 W. | Robert E. Lee born 1807 |
| 20 Th. | Panama Canal started by French 1882 |
| 21 Fr. | Stonewall Jackson born 1824 |
| 22 Sa. | Barber not interested in politics found 2001 |
| 23 Su. | First use of wireless to save lives at sea 1909 |
| 24 M. | Gold found in California 1848 |
| 25 Tu. | LAST QUARTER OF MOON |
| 26 W. | Open cracker barrel abolished. Thousands die of starvation 1930 |
| 27 Th. | First State University given charter 1785 |
| 28 Fr. | Panama Railroad completed 1855 |
| 29 Sa. | President McKinley born 1843 |
| 30 Su. | Farmers declare that wild oats are not farm products 1940 |
| 31 M. | Thirteenth Amendment adopted 1865 |

Icy
stormsWinter
storms are
here! Take
Smith
Brothers
Cough
DropsCold
North
windsLook out
for those
chilly
blasts.
Smith
Brothers
protect you

Snow

Bundle up
warmly,
and use
Smith
Brothers
Cough
DropsBliz-
zards
and
con-
tinued
coldKeep a
box of
Smith
Brothers
in your
pocket.Eighty Years Building
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EIGHTY years ago Smith Brothers started making cough drops that were quick to relieve the irritated throat, yet gentle, pure and free from drugs. Now—three generations later—over one billion of those cough drops are being used every year.

It's easy to see why Smith Brothers' cough drops have steadily gained such friends. They relieve a cough in the simplest way—soothing the irritated throat, clearing air passages, restoring the voice and making breathing easy and natural. And they are good to taste. Children love them.

In cold raw air Smith Brothers protect your throat from trouble. Have Smith Brothers' always handy when you're out of doors.

Two kinds: S-Bs (licorice) and Menthol (orange box).



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SINCE 1847GENUINE
Navy
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Keep warm in one of these all-wool, double-breasted, genuine Navy pea-jackets—original Navy tag in each. Dark blue. The ideal, short, winter overcoat. Will wear for years. We have bought entire U. S. Gov't surplus—the Government's loss is your gain. If your dealer does not stock them, we will send postpaid, as long as supply lasts, on receipt of your remittance. Lyon, Cowdrey & Wilson Dept. 3, 17 Battery Place, New York.

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Zino-pads**



Put one on—the
pain is gone!

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Patterns are postpaid; send coin. Send 15 cents in coin for our up-to-date 1926-27 Fall and Winter Catalog, containing 500 designs of ladies', misses' and children's patterns, and 20 embroidery stitches. Be sure to give number and size of pattern wanted. Please do not send stamps. Send all orders to The Farm Journal, Philadelphia, Pa. Ad.

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TO IRON
Cuts Ironing Time In Half

New invention makes ironing delightfully easy, cool and comfortable in every home. Ends hot stove drudgery forever. Use it anywhere, indoors or outdoors. Saves steps. Beats gas or electricity. Cheaper to operate. Costs only 1 cent for 3 hours' use.

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See for yourself without risk how you can save hours of ironing time—save work—steps—and cut cost in two with this amazing new ironing invention. Try it 30 days and send it back if not satisfied. Just write today for this LIBERAL Trial and Special Price Offer to quickly introduce this iron in your locality. Be the first to send your name and address. Write now before you miss this opportunity. Descriptive circular—"A New Way To Iron"—FREE THE AKRON LAMP CO. 71 Iron Street Akron, O.

AGENTS!
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Patterns for Midwinter
Sewing

5662. Ladies' Dress. 6 sizes: 34, 36, 38, 40, 42, 44 inches bust measure.
5657. Ladies' Dress. 6 sizes: 34, 36, 38, 40, 42, 44 inches bust measure.
5705. Girls' Dress. 4 sizes: 8, 10, 12, 14 years.
5688. Ladies' Morning Dress. 3 sizes: 38, 40, 42, 44, 46, 48, 50, 52 inches bust measure.
5708. Child's Coat. 5 sizes: 1, 2, 3, 4, 5 years.
5670. Girls' Dress. 4 sizes: 8, 10, 12, 14 years.
5663. Ladies' Dress. 7 sizes: 34, 36, 38, 40, 42, 44, 46 inches bust measure.
5634. Ladies' Morning Dress. 6 sizes: 34, 36, 38, 40, 42, 44 inches bust measure.
5678. Child's Dress. 5 sizes: 1, 2, 3, 4, 5 years.
5704. Girls' Dress. 4 sizes: 6, 8, 10, 12 years.
5699. Girls' Undergarments. 7 sizes: 2, 4, 6, 8, 10, 12, 14 years.
5031. Infants' Set. One size.
5347. Girls' Dress. 4 sizes: 8, 10, 12, 14 years.
5680. Child's Dress. 5 sizes: 1, 2, 3, 4, 5 years.

Prices of patterns obtainable from The Farm Journal will be found in first column on this page

BLACKHEADS
cannot be hidden. Get rid of them
now by regular treatments with
Resinol

How To Avoid Movie Headaches

By the Beauty Editor

IF your eyes are sensitive and you suffer from eyestrain or headache at the movies, avoid sitting too near the screen. Even if your vision is good, the farther you sit from the screen the less your eyes will be strained by any unsteadiness or imperfection in the showing of the picture, or by the strong light.

Any one who has been obliged to sit in the front seats must have noticed that the glare is more tiring, and that any lack of steadiness is exaggerated, requiring more constant adjustment of the eyes and thus producing greater muscle fatigue.

Bad ventilation is also responsible for "movie headache," and it may contribute to other symptoms of eyestrain by its generally depressing effect. Eyestrain deserves more consideration in the case of children, because of the plastic condition of the tissues of the growing child and the danger of the production or increase of nearsightedness.

Wearing Glasses

All children who have red eyes or complain of headaches during or after attendance at the movies should have a careful examination of the eyes. Inquiry will probably develop the fact that some symptoms of eyestrain also occur after much reading, motoring or exposure to any strong light. If glasses are needed for any purpose they should be worn at the movies, and it is a good plan to close the eyes if the picture is unsteady or shown so rapidly as to cause distress.

It must be remembered that glasses alone will not bring about the desired results. As many contributing causes to eyestrain as possible should be weeded out, thereby permitting the minimum amount of faulty vision to exist. Care should be taken to provide the best possible schoolroom lighting, both natural and artificial. Light from the windows should be controlled by shades, and the finish on the desk tops should be dull in order to avoid unnecessary glare. Blackboards should be placed so that they receive a good light—never between nor under windows. It is highly important to use proper book type. All school-books should be printed in large, clear type on dull paper.

Better Lighting in Theaters

Improvements should not end in the schools, but should be extended to the theaters. There is much room for improvement of conditions even in our best theaters. It has been demonstrated that darkness such as we usually find in the movie theater is not necessary to the successful showing of the pictures. The front part of the theater near the screen should be dark. If the light were increased gradually from the front to the back part of the theater it would be much easier for the observers, and the visual result would be just as satisfactory. While such lighting is difficult of accomplishment in theaters already built, it can be done.

If these measures are taken to eliminate eyestrain, together with regular periodic eye examinations, a big step will have been taken toward the conservation of the eyesight of our future citizens.

Letters asking questions concerning beauty and the care of the body can not be answered in *The Farm Journal*. Address all such letters thus: Health and Beauty Editor, *The Farm Journal*, Washington Square, Philadelphia, Pa. Write briefly, with pen and ink, and enclose stamped and addressed envelope for reply.



A bright, patterned rug adds life to this room!

You'd be surprised how this cheerful farm living room was transformed from a dull, drab place—with a little paint, inexpensive window curtains and a colorful Blabon Rug of genuine Linoleum (pattern 8061)!

And better yet, it made work easier because the smooth, napless surface of a Blabon Rug prevents the grinding in of dirt.

Surface dirt, spilled liquids and spots are readily removed with a damp cloth. That means much to busy farm women!

Blabon Rugs lie flat without fastening, and never curl up at the edges. They are mothproof. And being made of genuine linoleum with a strong burlap back, Blabon Rugs are both durable and economical.

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of genuine linoleum

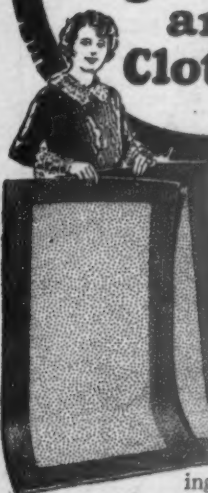


Look for this label on the face of all Blabon's Linoleum



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A Flower for Your Shoulder

By Amy E. Jones

A VERY pretty flower to place on the shoulder, or at the waist-line of a party dress, can be made of Georgette, in any color which harmonizes with the dress.

To make, cut ten triangular pieces of Georgette, the size given in Fig. 1, and three triangular pieces, six inches across



The completed flower

the bottom and four and one-half inches on the sides. Fold these pieces in the center and seam one side as shown in Fig. 2. Turn and gather to form a petal (Fig. 3). Join five large petals, as shown in Fig. 4. Join the other five the same way and arrange over the first row of petals (Fig. 5). Join the three smaller petals and place over the other two rows, forming the flower. Fill in the center with yellow silk French knots. A small spray of leaves is used to back the flower, as illustrated.

Foliage which has seen service on a hat could be used for this purpose, if in good condition; if not, a small spray can be purchased inexpensively. Rose foliage is prettiest, but any other leaves could be used.

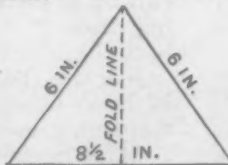


FIG. 1

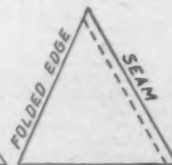


FIG. 2



FIG. 3



FIG. 4



FIG. 5

USE a cheap shaving-brush for brushing women's hats, as it is both stiff and small enough to reach every crevice.

Children's Musterole-Mild

Of course, you know good old Musterole; how quickly, how easily it relieves rheumatic and neuralgic pain, sore joints and muscles, stiff neck and lumbago.

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CHILDREN'S MUSTEROLE is just good old Musterole in milder form. Unexcelled for the relief of croupy coughs and colds; it penetrates, soothes and relieves without the blister of the old-fashioned mustard plaster.

Keep a jar handy. It comes ready to apply instantly, without fuss or bother.

The Musterole Co., Cleveland, Ohio



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A new oil lamp that gives an amazingly brilliant, soft, white light, even better than gas or electricity, has been tested by the U. S. Government and 35 leading universities and found to be superior to 10 ordinary oil lamps. It burns without odor, smoke or noise—no pumping up; is simple, clean, safe. Burns 94% air and 6% common kerosene (coal oil).

The inventor is offering to send a lamp on 10 days' trial, or even to give one to the first user in each locality who will help him introduce it. Write him to-day for full particulars. Also ask him to explain how you can get the agency, and without experience earn big money.

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Vapo-Cresolene makes a strong appeal to those afflicted with Bronchial Asthma, because the little lamp, used at night, is a powerful vaporizing, soothing remedy, while the patient sleeps and the difficult breathing is easily relieved. A patient who has been a sufferer from Asthma, told by druggists.

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AGENTS

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Rugs from the Rag-Bag

Continued from page 80

is worked back and forth as shown in Fig. 3. Instead of taking up the back of the stitch, the hook is thrust under both threads so that the work will be alike on both sides. When worked in this way, the rags are cut a trifle narrower, but as the stitch takes up both top threads, the work is just as firm. Bath-mats are nice crocheted by this method and are especially pretty made of alternate rows of old white underwear and pink or blue cotton rags.

The rug shown in Fig. 4 was made of left-over yarn in a variety of colors and is very nice for a bathroom or bedroom. The rug can be made of old or new yarn in any color or any weight. Use a No. 6 crochet hook M.M. gauge. If Shetland floss is used, work with five or six strands. With knitting yarn, four strands will be enough. In combining yarns, use enough strands to obtain a uniform thickness. Begin with a chain six inches long and work along chain in single crochet, with 3 s. c. at end. Continue with a c. on opposite side of chain, with 3 s. c. at end. Join each row with a slip stitch, turn, ch. 1, then work back, all the way round with a c. Repeat the rows, increasing enough at the ends to make the work lie flat. The rug shown measures 24 x 34 inches, but could be made larger, if desired.

Hit and Miss Effect

The rug shown in Fig. 6 is made on a foundation of strong ticking covered with squares cut from discarded sweaters and other knitted articles and squares knitted from left-over yarn. The squares measure $2\frac{1}{2} \times 2$ inches and are sewed (the long way) to the foundation through the center, if cut, but the other squares are folded over and the edges sewed to the foundation, then cut through the center so they can ravel as do the cut squares, producing a mossy, "hit or miss" effect.

Small left-over pieces of heavy cloth can be cut in 1 x 2-inch or 2 x 3-inch pieces and basted in strips, overlapping the edges. Use ticking for the foundation and on the sewing-machine, with the stripes in the ticking to guide you, stitch the basted strips on the foundation as in Fig. 2. Turn each row over as you work and stitch the next row close to it. This makes a warm, durable rug, easily and quickly made.

Braided Rugs

Braided rugs are considered more difficult to make than those which are crocheted, but will repay the worker. The three-strand braid is used most, but pleasing effects are produced by using five or seven strands. These wider braids require less sewing, but care must be taken to keep the rug flat. Variety is obtained by changing the color of the strands. For instance, for the inner or first rows one could use two strands of light and one of dark material and for the next rows use two dark and one light strand, the border being made entirely of dark strands. Join the ends of each band of color in a strongly sewed seam, dampen, then press open with a warm iron and sew the ends securely in place with a strong thread. Braided and crocheted rugs are usually made round or oval. An oval rug of good proportions is just as wide, when finished, as the length of the foundation chain or row of braid. That is, if the first row of such a rug is 27 inches long, the finished rug should be about 27 inches wide.

4 Ways to Know the Genuine Coleman Mantles



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The Display Container on your dealer's shelf, showcase or counter. This display carton is orange, purple and white. The name "Coleman" is plainly shown on it. Contains a dozen boxes of genuine High Power Coleman Mantles.

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The Dozen-Size Box (purple and white). Contains 12 genuine Coleman Mantles in purple glassine envelopes. The name "Coleman" is on each box.

3



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The Coleman Trademark itself, with the lamp through the middle, is stamped in red on every genuine Coleman Mantle.

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See that the name "Coleman" is on all the Mantles you buy. Genuine High Power Coleman Mantles are made especially for Coleman Lamps and Lanterns. Coleman Mantles are just the right size, right texture, right shape to give better light and longer service. Coleman Mantles provide the beautiful brilliance that has put Quick-Lite Lamps and Lanterns in the hands of more than 3,000,000 owners and users. Protected by U. S. Patent. Price only 10¢ each. Buy them by the box (1 dozen \$1)—at your dealer's.



More than 35,000 dealers throughout the United States and Canada sell Coleman Mantles, Lamps, Lanterns, Radiant Heaters, Camp Stoves and Air-O-Gas Cook Stoves. If your dealer is not supplied, write us and we will see that your wants are taken care of promptly. Address Dept. FJ-75

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Please send your patented Free Trial Outfit. It shows color of hair. Black...dark brown...medium brown...auburn (dark red).....light brown.....light auburn (light red)....blonde....

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Our Young Folks

Red Tillers of the Soil

WHAT a change a few years make! Not so many years ago the

Indians were in full war paint and feathers, brandishing tomahawks and executing barbaric dances, some with prized trophies dangling from their hands. Today, these former warriors are tillers of the soil. They are developing into valuable citizens.

In Utah, for example, the Ute Indians on the Uinta Ouray Reservation are becoming good farmers and stockmen. Approximately 1,200 Indians live on the reservation, and they have more than 25,000 acres of land now under cultivation, practically all irrigated. The former warriors see the advantages of becoming good farmers. The Utes and Uncompahgres and the White River tribesmen are fast learning to cultivate the land.

They are raising some splendid crops, such as alfalfa seed and hay, clover seed, wheat, oats and corn. All temperate-zone crops do well on this reservation, according to Superintendent F. A. Gross. Fruits of all kinds, including peaches, thrive. Poultry, honey and dairying are among the principal

By Glen Perrins

industries. The Indians are also growing livestock extensively.

The Indian of yesterday with his war cry—"Hi ya! hi ya!"—is now trying hard to make good in farming work, and is succeeding. His work vies with that of his white neighbor, and at county fairs



Weldon Burson, an Indian youth of the Uinta Ouray reservation in Utah, seeding a field of oats. Instead of "Hi ya! hi ya!" Weldon is now shouting "Giddap."
Note the good horses

not a few blue-ribbon prizes for excellence in farm work are handed to various redskin farmers.

My Experience as a Local Club Leader

Continued from page 54

the Hi-Y club, or Young Men's Christian Association.

Although I have worked hard to become leader of these different organizations, I



Homer Sheffield

give all the credit to the agricultural organization for boys and girls, because it was this organization which taught me to talk before a large assembly. It taught me the high ideals in life that go to make a true American citizen. It gave me a personal interview with the business world which is the foundation of a successful nation; and last, it has pointed out to me my life's work, and in return I will stand by club work because club work is making the American citizen of tomorrow.

□ □

"The Four-H Trail" by W. H. Kendrick, state club leader of West Virginia, is a fine book for older boys and girls, for grownups who act as local leaders of 4-H clubs, Wideawakes, Sunday-school classes,

summer camps, and young folks' organizations in general. School-teachers can also learn a lot from it. Published by Richard G. Badger Company, 100 Charles Street, Boston, Mass. \$3.20, postpaid.

□ □

Wideawake Blinkers

We have drawn up a clan constitution of which we are very proud. When it is not too cold we hold our meetings by a campfire. Rufus B. King, Md.

I joined a corn club last year and am going to join it again this year as well as a poultry club. Harry Neuse, Tex.

Our first meeting was held in a tent in the woods. Eleven boys attended this meeting. We have started a log cabin. Harvey W. Rockwell, Ala.

□ □

4-H Leadership Contest

Good news for all 4-H Club boys and girls! The 4-H Leadership Contest held last year will be repeated in 1927. The Farm Journal is offering the same amount of prizes—\$1,000 in all—to the 26 most outstanding 4-H Club leaders, to be awarded as follows:

	Boys	Girls
1st prize	\$250	\$250
2d prize	100	100
3d prize	50	50
\$10 each for the ten next best in each group.		

The rules for the contest are being changed a little, but will be ready for distribution after January 15. You can get them either through your state club leader, or directly from the 4-H Leadership Contest, The Farm Journal, Philadelphia, Pa.



The Buffalo



THE American bison, or buffalo, formed a picturesque background to our unsettled West until ruthless hunting brought it to the verge of extinction. Laws adopted during and since Roosevelt's conservation campaign have, however, permitted the buffalo to regain a very small fraction of its former numerical strength. They now furnish an interesting sight in Yellowstone Park and other protected ranges.

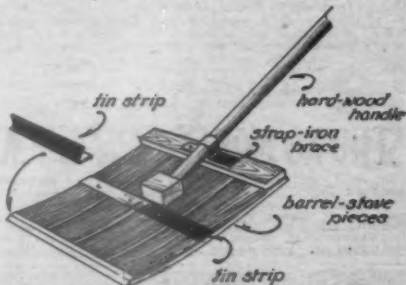
Our buffalo is closely related to the European aurochs, and belongs to the same group of animals, broadly speaking, as our domesticated cattle. The link between our true oxen and buffaloes is the yak, which roams the highlands of Tibet and other parts of Asia.

The male buffalo weighs about a ton, while the female is much smaller in size, being no heavier than 1,200 pounds.

Are there any native wild animals near your farm? Write to The Wideawakes, Farm Journal, if you wish to ask any questions about them.

□ □

Easily Made Snow-Shovel



Here's how old barrels can be made into shovels: Saw the barrel exactly in half, then remove the hoops and heads, and the staves will fall apart.

For one shovel, take four of the stave halves and lay them upon the floor. Cut one strip of tin, bend it along the middle and then fasten it to the beveled ends of the staves, with each as closely together as possible. Fasten another tin strip midway between the ends, then fasten the other ends with a wooden strip and nails, driven from the underside. The diagram shows how the rest is done.

□ □

The Wideawakes

A Brotherhood of Farm Boys

Brotherhood Chieftain, Charles P. Shoffner
Brotherhood Steward, Werner P. Meyer.

Motto: Plow a Straight Furrow

Every farm boy should become a member. To join, copy the pledge, write name and address, send to us, and your name will be enrolled and the button and folder will be sent you free. There are no dues, no fines, no assessments. Wideawakes now number 53,787; 829 clans have been formed. Membership Certificate printed in two colors, with gold seal attached, 10 cents.

PLEDGE: I desire to become a member of The Wideawakes, and promise to play fair, to lend a helping hand, to believe in farming, and to have a brotherly love for farm boys everywhere.



Eight doctors out of ten advised Nujol type of treatment

DOCTORS from coast to coast were recently asked whether they advised the Nujol type of constipation treatment to their patients. 80.7% of all these doctors answered "Yes".

64% condemned the continued use of laxatives and cathartics. One doctor said, "An almost incalculable amount of injury is done by these intestinal irritants, most of which provide temporary relief only at the cost of permanent injury. Laxatives bring on the laxative habit."

Doctors advise Nujol

Doctors who said they were advising the Nujol type of treatment told us they were advising it in place of laxatives for these reasons: 1. Nujol is not habit-forming; 2. A more natural method; 3. A lubricant is better than a laxative; 4. Does not gripe; 5. Is not irritating; and 6. Nujol gives lasting relief.

Unlike laxatives

Laxatives and cathartics act by irritating the intestinal tract. They cause the bowels to frantically expel the contents of the intestines and thus rid the system of the drugs that pills and potions contain.

Nujol acts entirely differently. It

contains no drugs, no medicine. Its action is mechanical. It merely softens the dried waste matter in the intestines and lubricates the passage so that the muscles of the bowels can expel the waste matter regularly, naturally and thoroughly.

Nature-given remedy

Nujol appeals to the medical man because it is a simple, scientific and safe remedy for constipation, no matter how severe the case may be. It is gentle in its action and pleasant to take. Children love it!

Get a bottle of Nujol from your druggist today. Doctors advise it for constipation, whether chronic or temporary.

Nujol

REG. U.S. PAT. OFF.

For Constipation

Accept This TRIAL Offer

Nujol Laboratories, Room 833E, 26 Broadway, New York City
(In Canada, Address Nujol, 165 Dufferin St., Toronto, Ont.)

Send me 4-day trial bottle of Nujol, the drugless remover of hidden constipation. Enclosed is 10 cents to pay shipping costs. Send also 24-page illustrated booklet, "Overcoming Constipation." (For booklet alone, draw a line through 10 cents above, and send no money.)

Name _____

Address _____

City _____

State _____



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Make \$1000 a year from 200 hens, like others are doing. Poultry Tribune shows how; explains brooding, culling, feeding management; monthly, 80-100 pages. **3 Months' Trial 25c** One Dollar a Year. Colored art chicken pictures suitable for framing FREE every other issue. Send stamps or coin today at our risk. Poultry Tribune, Dept. 30, Mount Morris, Ill.



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Large White Eggs. 265-331 egg record stock. Official Egg Contest Winners. Hardy—Vigorous. Bargains in Baby Chicks—Stock—Supplies. Free feed with chicks. Big discount if ordered now. Delivery when wanted. Valuable Catalog FREE. Kerlin's Grand View Poultry Farm, Box 16, Centerville, Pa.

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Paste this on postal or letter, state breed you raise, sign full name and address. We'll send FREE copy of Plymouth Rock Monthly, Rhode Island Red Journal or Leghorn World with free breed book offer. You'll be pleased.
Poultry Pub. Co., Dept. 46, Waverly, Iowa

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Pure CHICKS Big sturdy, selected chicks. Brooders carefully chosen by specialist trained at State University. \$1.00 per 100 chicks books your order. Write for big free catalog. Foster Hatchery, Dept. 1, Fostoria, Ohio

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A complete guide to successful Poultry and Squab Raising. Low prices on CHICKS, Breeding Stock and PIGEONS. Write Today! FREE!
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sired by pedigreed males, records 200 to 230 eggs. Low prepaid prices. Shipped anywhere c. o. d. and guaranteed. Hatching eggs, cockerels, pullets, hens, egg bred 27 years. Winners at 17 egg contests. Write for free catalog and special price bulletin. SEE, S. FERRIS, 888 Union, Grand Rapids, Mich.

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BIG CHICK CATALOG
Tells all about our OHIO ACCREDITED chicks. All leading breeds. Prices reasonable. Every breeder banded and inspected by experts trained and authorized by Ohio State University. Write today. South Kenton Poultry Farm, Box 14, Kenton, Ohio

BABY CHICKS

CHICKS from flocks selected and inspected by experts trained and authorized by Ohio State University. Some transported. Reasonable prices. Free catalog.
HOLTZAPFEL HATCHERY, Box 98, ELIDA, OHIO.

Our Club Birthday

THE LIBERTY BELL BIRD CLUB
It was founded January 1, 1913, so it is now 14 years old. The organizers saw that our song and insectivorous birds were not protected in the way they should be and that the majority of bird clubs confined their activities principally to cities. Since the organization, 907,004 have signed the pledge, and we believe that The Liberty Bell Bird Club has done more for the actual conservation of our bird life than any other club in existence.

This would be a good time for each and every member of the club to repeat once more the pledge made when he or she joined, and it would also be an excellent thing to go out and bring in another member for the club. Remember that once a member of The Liberty Bell Bird Club, always a member. The motto is plain and practical, "Protect Our Feathered Friends." The platform of the club covers much ground, and here it is:

Protection, by adequate laws, throughout the world, for all song and insectivorous birds.

Teaching of practical ornithology in all public and private schools.

Regulation, but not persecution, of cats, red squirrels and all enemies of beneficial birds.

Establishment of bird sanctuaries in every city, town, village and hamlet.

Planting trees, shrubs and vines that will attract and feed our birds.

Putting up safe and artistic bird-houses, and the feeding of our winter birds.

Establishment of a National Bird Day on the second Friday in April of every year, to arouse interest in birds, bird conservation and bird protection.

While we have done much, there is much more to do. The birds are the natural enemies of insect life, and it is up to us to increase their numbers.

Fourteenth Annual Bird Census

Make a list of birds seen in your district on any one day, from January 1 to 20. Make out your report in this style, and send it to us by February 1:

Date _____

Place _____

Weather _____

Birds (species and number of each seen, thus: Robins, 4; chickadees, 20; etc.)

Total No. of birds _____ No. species _____

Name _____

Address _____

Ask the school-teacher, or some one familiar with the birds, to act as leader. We want every state well represented. Get up your party now, and go out the first day you can. Mail your reports to The Liberty Bell Bird Club, The Farm Journal, Philadelphia, Pa.

The Liberty Bell Bird Club

Motto: Protect Our Feathered Friends

PLEDGE: I desire to become a member of The Liberty Bell Bird Club, and promise to study and protect all song and insectivorous birds, and do what I can for the club. 907,004 good folks have signed this.

Copy the pledge, sign your name and address, enclose ten cents, send it to us, and your name will be enrolled and the club button and 20-page guide sent you. The Liberty Bell Bird Club, The Farm Journal, Philadelphia, Pa.

NOW FREE!

Here's a book worth dollars that we have decided to mail free to all chick buyers who write for it. 3 colors, illustrated. Tells how we hatch the better kind of State Accredited chicks at lowest prices. Leading varieties, 60,000 weekly. Low booking terms. You know you will be treated right if you buy from **MISSOURI STATE HATCHERY, Box 720, Butler, Mo.**

MAKE HENS LAY

more eggs; larger, more vigorous chicks; heavier fowls, by feeding cut bone. **MANN'S LATEST MODEL BONE CUTTER** cuts fast, easy, fine; never clogs. **10 Days' Free Trial.** No money in advance. Book free. **F. W. MANN CO., Box 40, MILFORD, MASS.**

Squab Book FREE

Send now for this interesting and profitable book telling how a beginner started small in backyard when at school with no money, now has a \$50,000 plant, ships to N. Y. 150 birds, square feet, paid \$75-100 bill. You should read it. Price of book is \$50 but we will mail it to you for names and addresses of four of your friends and your own. Ask for Book No. **THREE, PLYMOUTH ROCK SQUAB CO., 300 N. Street, Melrose Highlands, Mass.** Established 35 years.

40 BREEDS WONDERFUL POULTRY BOOK

The Nation's Great Poultry Manual. 132 Pages. Beautiful Pictures. Mrs. Berry's success with hatchery. Blood-tested, Pure-Bred Poultry and pullets that lay at 4 months; feeding, housing, culling, diseases and remedy information. Makes you a Poultry Expert. Free Quality Poultry. Eggs, Chicks, Brooders, Supplies, etc. Send only 5 cents to have mail.
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New Edition! 90 pages of information on feeding, rearing of chicks, culling of hens, etc. Tells how to keep chickens healthy and make them pay. Whether a beginner or a professional, Conkey's Book is worth dollars to you. Sent for 4 cents in stamps to pay postage.
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Better quality. They cost no more. Our chicks are from leg-banded stock selected by expert trained and educated by Poultry Department, Ohio State University.

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Chicks from winter laying, farm raised, mature stock S. C. W. Leghorns, R. I. Reds, Barred Rocks, White Orpingtons, Anconas, Black Jersey Giants, White Wyandottes, White Plymouth Rocks, Black Minorcas, Pekin and Indian Runner Ducks; \$15. per 100 up. Live delivery guaranteed. Parcel Post prepaid. \$7.50 per 100 up. Several breeds rabbits. Circular free. Shipments will be made from one of our nearest associated hatcheries.
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Just mail your order. We ship C. O. D. and guarantee prepaid 100% live delivery of sturdy, purebred chicks from healthy bred-to-lay flocks; Wh., Br. and Buff Leghorns 12c; Bd. and W. Rocks, R. I. Reds, Anconas 14c; Buff Orpingtons, Wh. Wyandottes 16c; Black Minorcas 18c; mixed 10c; all heavier 12c. Orders for 50 chicks or more, 25 chicks 16c more.
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RICH IN QUALITY. LOW IN PRICE. FREE PICTORIAL CATALOG TELLS WHY. You don't need to tie up a lot of money weeks in advance when ordering here. Special terms. Leading breeds.
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The kind that lay. Circular free. Write today.
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Pay after you see the chicks. Pure-bred. Write for catalog. Reference. Poultry Dept. University of Kentucky.
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AMAZING LOW PRICES on Bred to Lay chicks. 15 years of satisfied customers in 48 states. 12 varieties. State Accredited. Illustrated Catalog Free.
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A Family Partnership

By Harvey A. Ische

"THIS certainly is a surprise," said a recent visitor, referring to the fact that our family were all at home working in a partnership with Father and Mother on a farm that our great-grand-sire purchased from the Canada Company, as part of the primitive forest of America. Well-nigh onto 100 years the name Ische has been connected with these acres. At present the farm is being run by Father and Mother and four of us boys, all grown men. There are no girls in the family, and the four boys comprise the whole of it. The story of how Father has managed to retain our interest and co-operation might be of interest to fathers elsewhere.

Prior to 1914, Father had all he could do to take care of the 150 acres and the herd of purebred Aberdeen Angus cattle on it. This herd, by the way, was established in the nineties, and is one of the oldest in Eastern Canada. The writer was the oldest in the family and ambitious to go to college. Unfortunately, the war intervened, and every able-bodied young man joined the famous expeditionary force. My college experience faded into a dream and in its place came an education in field and barn which has been the means of awakening in me an ambition to make of the farm a better place to live and a worth-while business place. I have learned that the breeder's art is a complex one; an art requiring patience and judgment, worthy of the efforts of a real man, and this is how Father interested his oldest in the agricultural industry.

Extra Money from Bees

About this time, Father became interested in the possibilities of the honey industry. He read and reread every bee journal and book available. Not only this, but he talked bees till every one of us lads became enthusiastic. For years we invested every dollar we made in increasing our bee and honey business. Particular attention was given to the successful marketing of our products, and we were among the first to pool our crop with the now successful co-operative, believing that united the beekeepers could more properly advertise and merchandise their

crop. Our belief has been more than substantiated.

The combined farm and honey business carried on by five able-bodied men has been profitable enough to allow us to enjoy modern rural conveniences, and while at times we are compelled to work long and tedious hours, there are always possibilities of holidays and easy spells. We find that by getting away from home occasionally, we can learn much that will be of material benefit to us.

There is nothing unusual about our partnership, except that it exists in a community that is like practically every community. Fathers and sons are trying to carry on individual businesses, paying interest on a large amount of overhead that might easily be eliminated. We believe that this family partnership will be a means of overcoming a great deal of the rural depopulation problem so prevalent today. Why should our boys be forced to work for strangers, making money for strangers, when they might work for themselves in co-operation with their parents? It is not necessary that every family should carry on a bee business; there may be other side-lines, or the farm proper may be enlarged, but we know that any one attempting a family partnership will be well repaid.

□ □

Tabloid Philosophy

NEW YEAR'S DAY has a way of putting in its appearance every twelve months, whether it's welcome or not. In most ways it is no different from other days, but somehow it always sets us to speculating as to what the coming months may be holding up their sleeves for us.

In our sober moments, New Year's reminds us that our Yesterdays have no more value—once they are gone—than we gave them while in our keeping. It also reminds us that 365 Tomorrows await us, with which we can accomplish wonders if we will.

Most folks waste enough time to double the length of their natural lives if only there was some way of conserving the unutilized hours. New Year's bids us remember that time, like opportunities, can never be recalled.

New Year's is a good time to look back over one's shoulder and see what has been done with all the days which the good Lord has given one. The older one gets the faster the days seem to slip through one's fingers.

To make a chain that will hold, he who fashions it must put into each link the very best workmanship of which he is capable. To meet the next New Year without regret requires that one fashion each 24 hours into a perfect day.

□ □

A dollar an acre is all it costs George Osborn, of Iowa, for fertilizer. His fertilizer is sweet clover, and on ground where sweet clover has been grown he increases his corn yield by as much as 25 per cent. One of his fields yielded 75 bushels of corn to the acre last year. He does not let sweet clover run into two full seasons, but plows it under green either in the first fall or the following spring. Every spring he buys quite a bit of clover seed and seeds it in small grain.

Y. B.

How to Tell Roup Canker

and Other Poultry Diseases
It's mighty important to know what's wrong when birds take sick. The disease may spread thru the entire flock almost overnight. Quick action is needed to stop loss. Our booklet tells how to recognize different diseases.

and What to Do

This book has SAVED poultrymen thousands of dollars. It's really so easy and costs so little to prevent disease: A little B-K fed in the drinking water and spraying with the famous B-K and water mixture. It's simple, it's safe, and thousands of poultrymen know it's dependable. B-K is a non-poisonous germ killer and disinfectant. Clean, clear, colorless. Leaves no odor. B-K is concentrated. Costs about 1 1/2 cents per gallon of dilution ready to use.

Order a jug from your dealer today—money back if not satisfied. Write for our FREE Poultry Book

It may save you hundreds of dollars this very year.

B-K

FREE Poultry Health & Poultry Profits

General Laboratories
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Wonderful offer direct from factory!

One of world's greatest radios. Perfect working, single dial control. 7-tube receiver, shipped to your home for 30 days trial. Test it for distance, volume, and tonal quality—and if you are not convinced that it is the best single dial set you ever heard, return it to the factory.

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CHICKS FROM RECORD FLOCKS

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BABY CHICKS INVESTIGATE THEN INVEST

Fine pure-bred chicks at prices to fit your pocketbook. Pedigreed males and selected females make chicks of finest quality. Free poultry book and catalog. We will help you with your poultry problems.

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NEW 1927 Catalog FREE

90 Day Trial OFFER ALLOWAY

Why guess or experiment with separators? Be sure—be an Eclair Gallows 90 days, (100 chickens) on your own terms. If you find it as claimed, keep it and pay for it on our 4 EASY PLANS, as low as \$4.00 down.

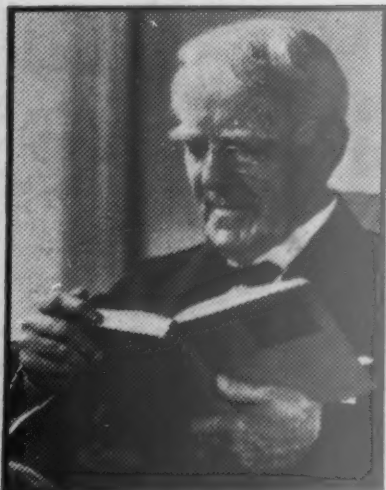
"Best Cream Separator Made" is what thousands of users say. Close skimming, easy running, economical, long life—guaranteed, in fact, guaranteed strongest that can be written. Over 100,000 users saved from \$50 to \$60 on this purchase price. So can you. Write today for full particulars. FREE CATALOG. Address: THE GALLOWAY CO., Box 403, Waterloo, Iowa

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From Missouri, The Big Chicken State. All varieties. Quality and delivery guaranteed. Big capacity in our \$10.00 hatchery makes low prices possible. Get Wonders! Poultry Book Free, also 1 year's subscription to a famous poultry magazine, 10 complete poultry lessons free to customers. Write for Best Baby Chick offer. SMITH BROS. HATCHERY, Box 110, Mexico, Mo.

HIGH FLOCK AVERAGES

MAJOR PROFITS, RUPP'S "INVINCIBLE" CHICKS. CERT-G-GOLD, insure each FLOCK. 150 Live Delivery. Write today for FREE LITERATURE before ordering CHICKS. THE ARCHBOLD HATCHERY, INC., Box 72, ARCHBOLD, OHIO. E. C. RUPP, Mgr.



Elderly people rarely escape

HAD RHEUMATISM FOR MANY YEARS

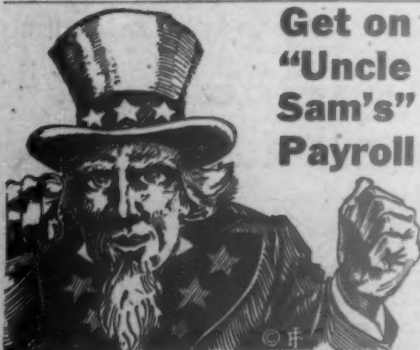
Got relief at last with simple home treatment

A martyr to rheumatism for almost a lifetime, a man from Wyocena, Wis., writes that he can always get relief with a simple home treatment.

"As a man of seventy, for years a sufferer from rheumatism, I want to give my recommendation for Sloan's Liniment," he says. "It is a fine remedy and will do all that is claimed for it."

Sloan's has been the standby of rheumatic sufferers for years because it doesn't just deaden the nerves. It helps the body to throw off the germs and poisons that cause the trouble by speeding up the circulation right in the affected spots.

Apply a little lightly, without rubbing. Immediately you feel a warm glow of comfort. Stiff joints limber up. The aching stops. Get a bottle today. All druggists—35 cents. Dr. Earl S. Sloan, 113 W. 18th Street, New York City.



Get on "Uncle Sam's" Payroll

\$1140 to \$3000 Year

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Men Women, 15 up
Send to me 32 page book with list of U. S. Government big paid positions now obtainable. Advise me also regarding the salaries, hours, work, vacancies and full particulars, and send sample coaching.

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STAMMER

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What Do You Want To Know?

The Editors of The Farm Journal, assisted by a large corps of research investigators and practical workers and advisers, are at the command of each and every one of Our Folks. They are prepared to answer inquiries and give advice on questions referring to any branch or phase of farm work, farm life, farm home, farm activities or general farm conditions (including legal, veterinary and medical matters), this constituting what we call

National Service

Questions are answered in The Farm Journal if of interest to the general reader. Others are answered in personal letters, provided the inquiry is accompanied by a two-cent stamp.

Questions of General Interest

Answered by Experts

Spots on New Floor

WE are trying to finish the floor of a new house by treating it first with a mixture of linseed-oil, turpentine and a little color well brushed in, and finished with varnish stain. The flooring is yellow pine. When the oil mixture was put on, the floor showed spots darker than the other part of floor. We think these spots are where portions of the hard plaster had fallen when the plasterer was working, but are not sure of it. However, these spots were not noticed until the coat of oil brought them out. Now our problem is how to get rid of these spots, as we fear they will show through the varnish stain. The floors had been well scrubbed and dried before oil was put on. W. M. D.

Plaster stains are very hard to remove. Try using sandpaper or scraping the spots with glass. Then rub in some more stain and use rather dark floor-varnish. As a matter of fact, yellow-pine floors are never very satisfactory. Why not put down a hardwood floor on the present floor? This will be satisfactory in every way and won't cost a great deal if you do the work yourself. You can buy flooring that is varnished and waxed. All you need to do is wipe it with a cloth to remove dust and surplus wax after it is laid.

Another thing you might do, if you are unable to remove the stains, is to put down linoleum. The linoleum goes well in kitchen and bathroom. To make a good job, there should be a layer of felt beneath the linoleum, and the molding along the baseboard should be taken up, then nailed down again on top of the floor covering. Names of firms making the linoleum and tiles will be sent on request.

Kafir for Cows

Please print something about kafir for dairy-cows—how it compares with corn, etc. C. L. T.

The Kansas station, in 1923-24-25, ran feeding tests with dairy-cows, to see how kafir compares with corn. The tests show that a ration containing corn chop is a little bit better for milk production than one containing ground kafir, but not much. The cows ate the kafir as readily as the corn.

Legal Questions

Answered by A. H. Throckmorton

Right To Return and Reap Crops

Is a tenant renting property from month

to month entitled to return after moving off the property and gather fruit or reap crops planted by him on the property? Missouri. Subscriber.

No. The tenant who rents from month to month is chargeable with notice that his right to the possession of the property may be terminated by notice at the expiration of any month, and that his rights in the property will cease upon his moving off, regardless of whether he moves voluntarily or is required by the landlord to move. If he plants crops on the property, therefore, he does so at his own risk of not being able to reap them.

Wages and Debts of Minor Child

If a minor son, who is living at home and working out, collects his own wages, but spends them in having a good time, and refuses to pay board and runs up debts, what can his father do to make him pay board at home and to pay his debts to other people? R. Conn.

This is a difficult problem for which there is no certain remedy. The father or mother, however, is entitled to the earnings of the children until they become of age, and in the case stated, would have the legal right to collect the

son's wages, give him such portion of them as deemed advisable, and apply the remainder in payment of board and of debts to other people.

Veterinary Questions

Answered by Dr. H. H. Havner

Healing Hole in Teat

I have a cow that cut her teat and when the cut healed it left a small hole in the side of her teat. The milk leaks out of it all the time. Can it be doctored in any way so that it will heal? E. F.

Try touching the edges of the opening with the point of a stick of caustic potash. The end of the stick which you hold in your finger should be taped. Do not use the stick too vigorously, for it will burn rather severely.

Docking Lambs

I bought a flock of sheep (ewes) and about one-half of them have long tails, as they were not docked when lambs. Would you advise cutting their tails off, now that they are full grown? If so, what is the best method of doing it, and is there any preference in time of year to do it? Also, at what age should the ewe lambs born in spring be docked? Also, what is the proper age for castrating the male lambs? J. W. C.

The fully grown sheep can be docked very readily by the use of a regular docking-pincer. This is heated to a dull red heat and the tail is severed one and one-half or two inches from the body. The stubs should



The rabbit: "That dog certainly likes my tracks—so I'm going to make a lot more for him"

be watched for a little while, but usually no disinfectant is needed. A little vaseline over the stub will promote rapid healing. Young lambs should be docked when one or two weeks old and male lambs castrated before three weeks of age. You can secure docking-pincers from any livestock-equipment house.

Radio Questions

Answered by Henry M. Neely

Antenna for Superhet

I get a lot of whistles on my eight-tube superheterodyne. Would shortening the aerial help this? J. P., Ontario, Can.

I am surprised that you are using an aerial on your superhet at all. The great point about these powerful sets is that they will run on a loop or a small inside antenna, thus dodging a lot of static, all lightning exposure, and other miscellaneous troubles.

If you can't get distant stations on, say, a three-foot loop, there is something wrong with your set.

However, if you insist on an outside antenna, I would certainly use one not over 30 feet. The whistling you speak of may be any one of several things, depending on what kind of a whistle it is. I have written you specially about this.

Purer Music with Crystal?

I am thinking of building the cheapest set I can, because I do not know whether I am going to like radio well enough to invest much, and I want to try it out first. A friend of mine advises me to start with a crystal set, because, he says, a crystal gives purer music than a tube. Is that so? G. C. F., Illinois.

In the first place, you might just as well invest in that good tube set at the start, because you're going to like radio a lot—you really are, G. C. All of us do who try it. Furthermore, you're going to wonder how on earth you ever got along so long without it, and in six months you'll be miserable if you have to spend an evening in a home where there is no radio.

Now, as to the purity of crystal reception and the supposed distortion of the tube: don't pay any attention to this claim. Music through a crystal sounds pure because it is too weak to cause distortion. Distortion comes in when we try to amplify sound too much. With a crystal, we also use headphones clamped to our ears, and these shut out all disturbing extraneous noises. I can take any good one-tube set, tune it down to crystal-volume, use headphones and get purity of music that is positively uncanny. Furthermore, I can increase the volume many times before any distortion becomes audible.

Health Questions

Answered by Dr. F. O. Hendrickson

M. R., Md.: Catarrh of the nose may be due to some form of obstruction, as a deflected septum, enlarged turbinates, or polyp formations. Sinus trouble must be thought of, also. In the presence of a chronic rhinitis without any of the conditions mentioned, argyrol in 10 or 20 per cent solution three times a day in five-drop doses to each nostril is beneficial.

D. B., Pa.: Lumbago is relieved by taking a very hot bath followed by massage of the affected part and a hot-water bottle applied externally. Aspirin in ten-grain doses will prove beneficial.

A. H. E., Wyo.: Backache, such as you describe, probably is due to a chronic arthritis of the vertebrae, or what is called a spondylitis. It is a very obstinate condition to right. I would suggest having X-ray pictures taken of the back to ascertain the amount of trouble present. Baking the affected part with high-voltage incandescent light three times a week and massage should help the condition. Have your teeth, tonsils and sinuses examined, and if any trouble exists in any of these, have it corrected. A five-grain neocinchophen tablet four times a day will be helpful.

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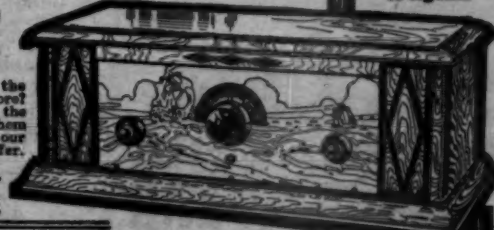
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Our Rebuilt Home

By T. M. Smith

"CAN we remodel our house at a moderate cost into a modern home?" we asked; and we had many interesting answers. We finally decided to try it. The house was hard to heat, and the shade-trees would either have to be cut down or the house would have to be moved. It faced the railroad and state road, and a county road passed by the end of the house,

starting point, and plans of additions in different positions were then drawn. All changes in our plans were made before work on the new building was started, so that we had no costly changes, which carpenters dread. The time spent in planning was well invested. When we were given advice after the work started, we thought of the man who built a boat and tried to build it like everybody told him. When it did not suit him, he built another boat and whenever any one advised him he pointed to the first one and said, "There is everybody's boat; this one I will build to suit me." And it did suit him.

The cellar was dug 16 x 28 feet on the



The shingles were dipped in creosote stain before they were put on



Right: The large porch is on the end that faces the highway

which did not look well. The two-story part was 16 x 32 feet. There was a 30-foot porch in front, and a shed kitchen and enclosed pump-house across the end away from the road.

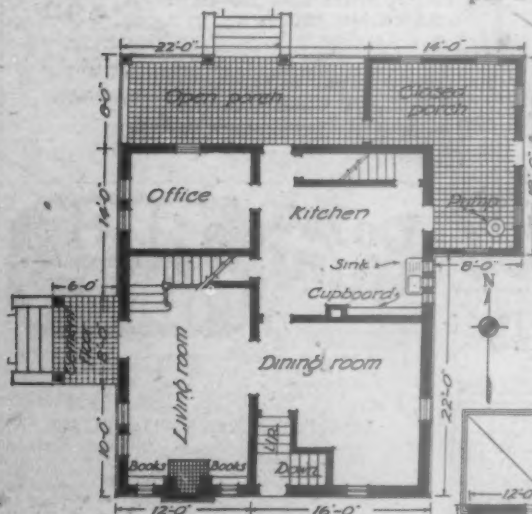
The original two-story part was used as a

warm side of the house. The soil removed was used as a fill around the house. The foundation of cement blocks was made to include not only the house, but also the stoop and the large porch. The house was turned around and moved across the cellar. We put a 22-foot open porch on part of the end, and a closed porch from this around the corner of the house to the kitchen door.

The old shingle roof was taken off and the new roof of asbestos shingles was put over both new and old parts. The sheathing of the new part was laid flush with the weatherboarding of the old, and both covered with wood shingles dipped in creosote before laying. The partitions were left as they were, only new doors and windows cut where wanted. The old stairway was not changed but the closed attic stairs were run over it. A new front stairway was built in the living-room, and lands in the small hall above. Double floors were laid on the same level in all the rooms downstairs. The porch posts, window- and door-frames, boxing and outside trim are white, as this makes a pleasing contrast with gray roof and brown sides.

Metal ceiling was used in kitchen and office, while lath and plaster were used for both ceiling and sides in the other parts of the house. The walls of the office are ceiled with wood. Double windows in front and a single window on the side give plenty of light and a good view of both roads and the mail-box.

Our home is easy to heat and we like it.

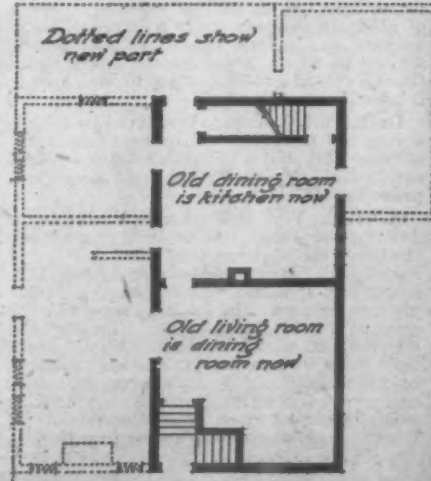
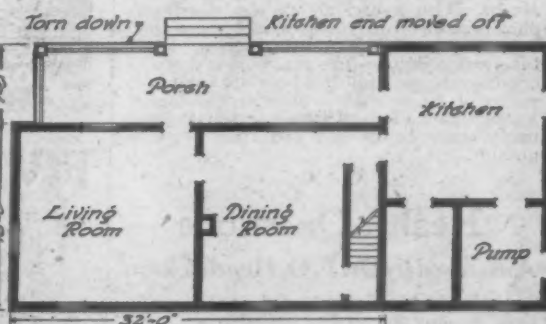
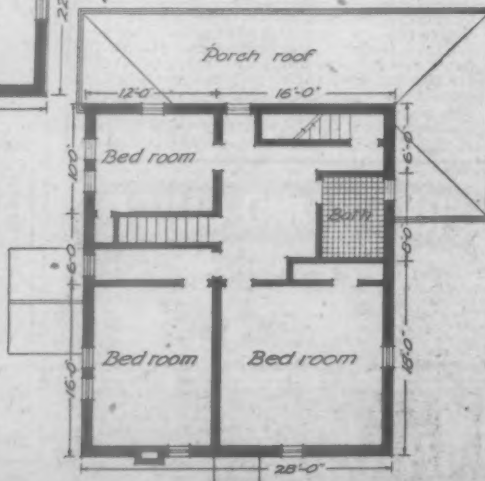


Office and kitchen open onto the large porch. A lot of womenfolks would vote for an outside door to the office, to keep callers from tracking through the kitchen. It would be easy enough to cut a door through if desired

Lots of hall room on the second floor, surely. Some of the wall space could be used for linen-closet

Porch was torn down, kitchen moved away, and old house (right) was then turned around

The old dining-room became the new kitchen, and the old living-room became dining-room



This entrance is neat and dignified



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IT is a good plan for every farmer, so far as possible, to own his own tools. There are some, though, which may well be owned in partnership. Take the potato-digger. There is no harder work, when followed up day by day, than digging potatoes by hand. Wherever the soil of a number of farms in the same neighborhood is adapted to the use of a horse digger, it is highly profitable, as well as vastly more comfortable, to have a share in a machine of that kind. Talk this over during the winter months, with that neighbor of yours.

Many farm boys are efficient. A calf had broken one of its hind legs. A couple of boys on the farm put some splints on that calf's leg, bound it up and when it got well the calf had quite a leg. Our hats are off to boys like that.

A man we know had a mare that kicked like lightning when the men folks were using her on the farm and things did not go just to suit her. But when that same mare had a bad calk sore, she would let the farmer's wife get right down on her knees and wash the place off and tie it up with a cloth, and never stir a muscle.

I have a large maple tree on my lawn with holes in it where limbs have been cut off. These holes were full of brown-tailed caterpillars and eggs. The woodpecker got to work and cleaned them out as clean as a new board. *P. W., Mass.*

The builders of the great pyramid in Egypt ate radishes, onions and garlic. The bill for these, according to an inscription, amounted to 1,600 talents. That is some money.

It is said that the porcupine is the slowest and most stupid animal in the woods.

Yes, Theresa, the palms are tropical plants related to lilies on one hand, and to grasses on the other. Strange, isn't it?

There are ferns with leaves so small that a dime will cover two or three of them. There are also some ferns 50 to 60 feet high, with ten-foot leaves. America has about 250 different species of ferns, while the Island of Jamaica, only 150 miles long, possesses 500 known kinds.



There are many kinds of houses, even in this age of uniformity and progress. Here are shown three odd types. The thatched-roof cottage (upper left) is in our neighboring country, Canada. It has a log base covered with cement, and the roof is a real thatched roof—not an imitation one. These thatched roofs, if done properly, are surprisingly weatherproof. The house illustrated at the upper right is really a curio shop built in Albuquerque, N. Mex., to perpetuate Pueblo Indian architecture. The

A Happy and Prosperous New Year to You

A Christmas Tree



Do you know that the nation has a Christmas tree? Well, it has, and it is the General Grant tree in the General Grant National Park, Calif. This tree is 8,000 years old, is 264 feet high, and 106 feet around its base; and in the picture, 150 people are standing at its base. It was first used as a nation's Christmas tree on Christmas day in 1925, and service will be held there every Christmas. This tree was 6,000 years old when Christ walked in Palestine.

Although greatly bothered with a very severe pain in the shoulder, Henry Gank, the philosopher of Beeler's Creek, bears up wonderfully, being almost cheerful. The shoulder is his wife's.

January blossoms fill no man's cellar.

When the month of January begins on Saturday, says an old superstition, the winter will be very open, with some frost; the summer will be hot and pleasant; the harvest moderate. Garden herbs will be damaged; hemp, flax and honey will be plentiful.

Every boy and girl ought to be getting ready for the day when they will be real citizens, with all a citizen's duties and privileges. That includes the right to vote. It takes patience, study and a clean heart to be a good voter, and that means years of hard work, and work that can only be done now.

A friend of ours recently spent some time in Canada, and he said the Canadian lynx has all the vocal accomplishments of the ordinary house-cat.

During the first six months of 1926, motor vehicles registered in the United States numbered 19,697,832. An increase of 10.8 per cent over a year ago.

The latest report says that there are about 5,000,000 radio receiving sets now in use in the United States.

Money is one of the things in which we are all more or less interested. It certainly helps to keep things moving. Do you know that infectious diseases may be spread more frequently by paper money, than by any other article used by man? We do not know who counted these bacteria, but it is said that 140,000 bacteria were found on a single bank-note. Folks in the East prefer paper money to silver, yet there are very few microbes or disease germs on coins. We suppose they slip off. It is said that the dirtiest piece of copper contains less microbes than the newest paper money. Even after telling you all that, we doubt if you will be afraid of a bank-note.

Did You Ever See

Such
Odd
Houses

?



house has modern plumbing and lighting, but the outside is modeled after old Pueblo dwellings. The Pueblo Indians were agriculturists, and good ones, at that. They had the community idea well worked out, as their dwellings so plainly show. The building at the bottom is a log house of some settlers in South Dakota. The material used to build it cost just \$50. It was soon replaced by a more substantial house. The results secured by the pioneers of the great West are wonderful. All honor to them and their children!





"Can he really play?" a girl whispered.
"Heavens, no!" Arthur exclaimed. "He never played a note in his life."

They Laughed When I Sat Down At the Piano But When I Started to Play!—

ARTHUR had just played "The Rosary." The room rang with applause. I decided that this would be a dramatic moment for me to make my debut. To the amazement of all my friends, I strode confidently over to the piano and sat down.

"Jack is up to his old tricks," somebody chuckled. The crowd laughed. They were all certain that I couldn't play a single note.

"Can he really play?" I heard a girl whisper to Arthur.

"Heavens, no!" Arthur exclaimed. "He never played a note in all his life. . . . But just you watch him. This is going to be good."

I decided to make the most of the situation. With mock dignity I drew out a silk handkerchief and lightly dusted off the piano keys. Then I rose and gave the revolving piano stool a quarter of a turn, just as I had seen an imitator of Paderewski do in a vaudeville sketch.

"What do you think of his execution?" called a voice from the rear.

"We're in favor of it!" came back the answer, and the crowd rocked with laughter.

Then I Started to Play

Instantly a tense silence fell on the guests. The laughter died on their lips as if by magic. I played through the first few bars of Liszt's immortal Liebestraume. I heard gasps of amazement. My friends sat breathless—spellbound.

I played on and as I played I forgot the people around me. I forgot the hour, the place, the breathless listeners. The little world I lived in seemed to fade—seemed to grow dim—unreal. Only the music was real. Only the music and the visions it brought me. Visions as beautiful and as changing as the wind blown clouds and drifting moonlight, that long ago inspired the master composer. It seemed as if the master musician himself were speaking to me—speaking through the medium of music—not in words but in chords. Not in sentences but in exquisite melodies.

A Complete Triumph!

As the last notes of the Liebestraume died away, the room resounded with a sudden roar of applause. I found myself surrounded by excited faces. How my friends carried on! Men shook my hand—wildly congratulated me—pounded me on the back in their enthusiasm! Everybody was exclaiming with delight—plying me with rapid questions. . . . "Jack! Why didn't you tell us you could play like that?" . . . "Where did you learn?"—"How long have you studied?"—"Who was your teacher?"

"I have never even seen my teacher," I replied. "And just a short while ago I couldn't play a note."

"Quit your kidding," laughed Arthur, himself an accomplished pianist. "You've been studying for years. I can tell."

"I have been studying only a short while," I insisted. "I decided to keep it a secret so that I could surprise all the folks."

Then I told them the whole story.

"Have you ever heard of the U. S. School of Music?" I asked.

A few of my friends nodded. "That's a correspondence school, isn't it?" they exclaimed.

"Exactly," I replied. "They have a new simplified method that can teach you to play any instrument by mail in just a few months."

How I Learned to Play Without a Teacher

And then I explained how for years I had longed to play the piano.

"It seems just a short while ago," I continued, "that I saw an interesting ad of the U. S. School of Music mentioning a new method of learning to play which only cost a few cents a day! The ad told how a woman had mastered the piano in her spare time at home—and without a teacher! Best of all, the wonderful new method she used, required no laborious scales—no heartless exercises—no tiresome practising. It sounded so convincing that I filled out the coupon requesting the Free Demonstration Lesson."

"The free book arrived

promptly and I started in that very night to study the Demonstration Lesson. I was amazed to see how easy it was to play this new way. Then I sent for the course.

"When the course arrived I found it was just as the ad said—as easy as A.B.C.! And, as the lessons continued they got easier and easier. Before I knew it I was playing all the pieces I liked best. Nothing stopped me. I could play ballads or classical numbers or jazz, all with equal ease. And I never did have any special talent for music."

Play Any Instrument

You, too, can now teach yourself to be an accomplished musician—right at home—in half the usual time. You can't go wrong with this simple new method which has already shown almost half a million people how to play their favorite instruments. Forget that old-fashioned idea that you need special "talent." Just read the list of instruments in the panel, decide which one you want to play and the U. S. School will do the rest. And bear in mind no matter which instrument you choose, the cost in each case will be the same—just a few cents a day. No matter whether you are a mere beginner or already a good performer, you will be interested in learning about this new and wonderful method.

Send for Our Free Booklet and Demonstration Lesson

Thousands of successful students never dreamed they possessed musical ability until it was revealed to them by a remarkable "Musical Ability Test" which we send entirely without cost with our interesting free booklet.

If you are in earnest about wanting to play your favorite instrument—if you really want to gain happiness and increase your popularity—send at once for the free booklet and Demonstration Lesson. No cost—no obligation. Right now we are making a Special offer for a limited number of new students. Sign and send the convenient coupon now—before it's too late to gain the benefits of this offer. Instruments supplied when needed, cash or credit.

U. S. School of Music, 571 Brunswick Bldg., New York City.

U. S. School of Music, 571 Brunswick Bldg., New York City. Please send me your free book, "Music Lessons in Your Own Home," with introduction by Dr. Frank Crane, Demonstration Lesson and particulars of your Special Offer. I am interested in the following course:

Have you above instrument? _____

Name _____ (Please write plainly)

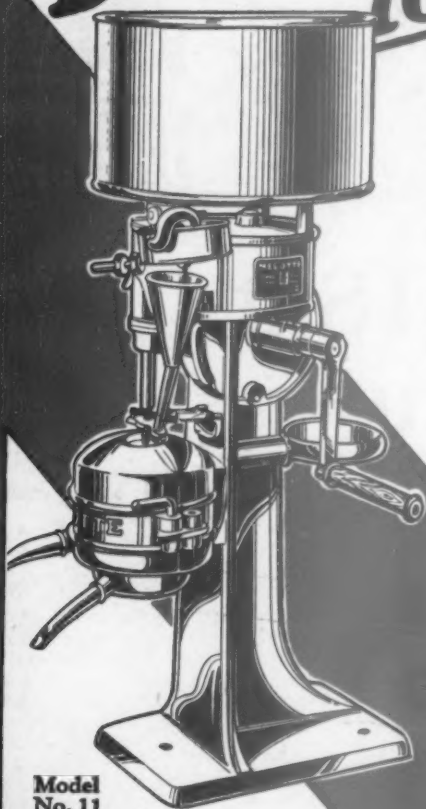
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City _____ State _____

Pick Your Instrument

Piano	Harmony and Composition
Organ	Sight Singing
Violin	Ukulele
Drums and Traps	Guitar
Mandolin	Hawaiian Steel Guitar
Clarinet	Harp
Flute	Cornet
Saxophone	Piccolo
Cello	Trombone
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(740 lbs.)
of milk per hour.

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But you needn't wait for the first cold, snowy night to make sure of your oil. Try it with any other oil—and Texaco—anytime. Place the two bottles in a jar of crushed ice and salt for half an hour. The temperature will drop to about zero, yet Texaco flows freely.

When it begins to freeze, any motor oil not free of paraffin, begins to thicken

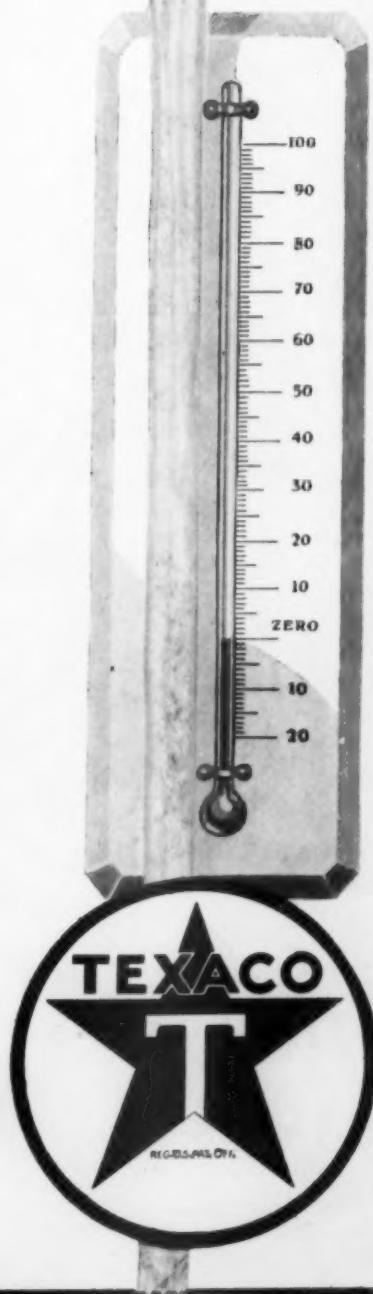
Then begins the starting resistance that burdens your battery—when every moving part is wiping its working surface bare of lubrication. One short minute of this action is more destructive than many miles of ordinary driving.

No such condition is necessary—Texaco Motor Oil flows at 32°, at zero—and below. For Texaco is free of paraffin wax, tars and cylinder stock. Be sure that your oil meets the severe test of winter driving. Golden Texaco does.

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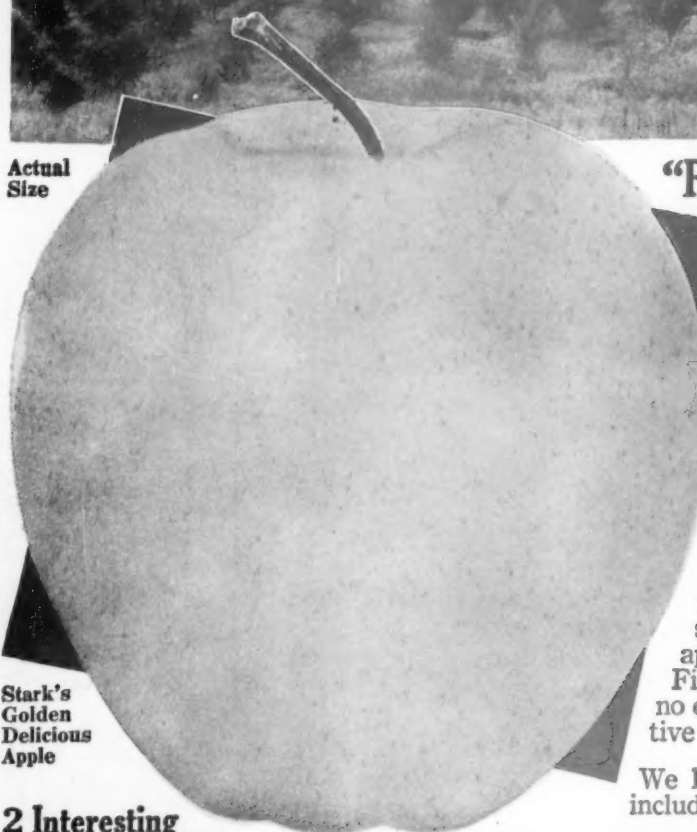


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~Joseph Girardi, St. Clair Co., ILLINOIS



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Stark's Golden Delicious Apple

"Fruit Growing is the most Remunerative of all the Agricultural Branches. The Work is Pleasant—Clean—With No Drudgery" also declares Mr. Girardi, whose orchard is shown above.

Reporting to American Fruit Grower Magazine, JOSEPH GIRARDI, St. Clair Co., ILLINOIS, stated:—"8 Acres of fruit will produce a larger income than 100 acres in grain or stock!"

He has 14 acres of orchard—the famous Stark's Golden Delicious, Stark Delicious, Stayman Winesap and others—has marketed his crops to home trade and, with the exception of one year, the demand exceeded the supply. This, despite the fact that some of his Stark trees bore as much as 21 bushels of apples each! Mr. Girardi asserts:—"I am growing fruit: First, because the occupation is pleasant—clean—with no drudgery—Second, because it is the most remunerative of all the agricultural branches."

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—STARKING, Stark Red Delicious, Stark King David, Stayman Winesap and all our leading varieties.

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