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The Extension Messeager

COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINGIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

January 3, 1934

Number 1

Fer Farms Too Small To Cash In On Corn-Hog Benefits

Almost no Illinois farm is too small to get some of the benefits of the government's contain adjustment program, and every farmer who does take part will stand with his neighbors in helping to restore a fair exchange value for these two farm products, it is pointed out by the extension service of the College of Agriculture, University of Illinois. Any farmer who can comply with one of four different combinations of corn and hog production can get a contract and receive the benefit payments.

Every corn and hog farmer in the state will have a chance to learn the details of the plan in community meetings which county farm advisers and the extension service of the College of Agriculture, University of Illinois will hold throughout the state.

Permission for a farmer to sign the contract for only one commodity is made possible through a special ruling of the Agricultural Adjustment Administration.

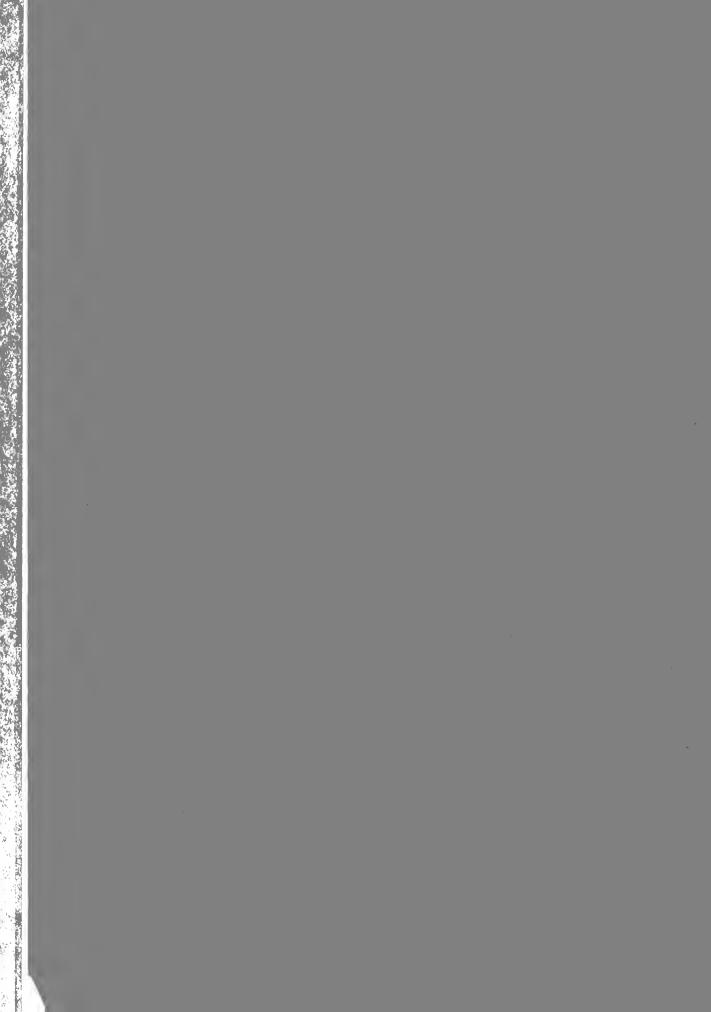
If in 1932 and 1933 a farmer grew an average of 10 or more acres of corn and marketed four or more litters of pigs, he may sign the adjustment contract to reduce his corn acreage in 1934 at least 20 per cent and his hog production 25 per cent. He thereby becomes eligible for benefit payments on both corn and hogs. He must reduce his production of both to be eligible for either or both payments.

If the farmer, in the two-year base period, grew an average of more than 10 acres of corn but marketed less than three litters of hogs, he can sign up for the corn payments, but will not be eligible for any hog benefits. In 1934, however, he must not increase his hog production.

If any _____ county farmer grew less than 10 acres of corn as an average for the two years, 1932-1933, exclusive of corn for silage, but marketed three or more litters of hogs, he may sign up for the benefit payments on hogs. He must not, in this case, increase his corn acreage in 1934.

If the farmer grew an average of 10 or more acres of corn in 1932 and 1933 and only three litters of pigs, he has a choice between two possibilities. He may reduce his corn acreage by 20 per cent and agree to produce not more than three litters, thereby becoming eligible for corn benefits but will not receive payments on hogs. If ne desires, he may agree to reduce his corn production as specified and his hog production to two litters, thereby becoming eligible for payments on both his hogs and corn.

Any farmer who grew less than 10 acres of corn and marketed less than three litters of pigs during the base period is not eligible to sign a contract.



Hourset O. Day's Places Will Climan - on home Week

Intlation, taxation and all the other leading issues of the times will be covered in eight general sessions which will climan the program of the chirty-stath annual Farm and Home Week. January 16 to 19, at the College of Aprilogicare triversity of Illinois, it is announced by Teal V. W. Mundori.

As a foundation for the signi general sessions of special short courses, all keyed to the recovery and adjustment needs of farmers and horemakers, will run throughout the week. Special entertainment features, meetinat or a number of the state's rural organizations and other features will be compound with this instruction to make the week a "new start" for the hundreds of farmers and homemakers who approally attend the event.

A "planner" arricalty se for the Sature is expected to to bouched agon in the first general sersion of the week, Moniay afternoon, January 10 when PeWrit U Wing, of the Agricultural Asjustment Administration at 1 of time starm paper editor in Illinois, comes back from Washington, P. C., to speak on a Farming or eacts and Falls "

Neered reforms to refuse the cost of low and county gove ment, a problem close to the hearth of farm people will be Microscet in the Theory norming general session, January 11, by Ir. M. H. Hurite, University of Microsceptions professor of economics.

Inflation will set its meaning at the Internal attention assistant professor of scoromics, speaks on, "The Experience of France With Inflation."

The Wedner laperornical session, Jarua y 10, will bride he of the highlights of the week for many farmers often Wood Netherland sentral again to the Farm Credit administration, St. Louis, No., speaks on, "The Farm Jredit Albums cratics and Illinois Agriculture."

"Thyrig's andards for Consume will be inscussed Wednesday afternoom by this with CiFrier, color of the division of textiles and clothing in the bureau of time economics. U. S. Department of Agriculture, Washington, I. C. (European Thade to livers in belation to American Agriculture." Thursday morning by 1., C. (). Steward. Const in Jani economics of I. College of Agriculture, and "The Options for Ferning from the Farm Topic anapoint." Thursday afternoon by Liberty Fyre Failey, and bortscultures, and Cortocalfurist, Linux, k. Y.

Clanue A. Wickard, assistant chief of the AAA cornelor parties, is scheduled to close the Yarm and Home Week to gram Friday morning, partiary 19, with a reject of progress to the promehos compaign.

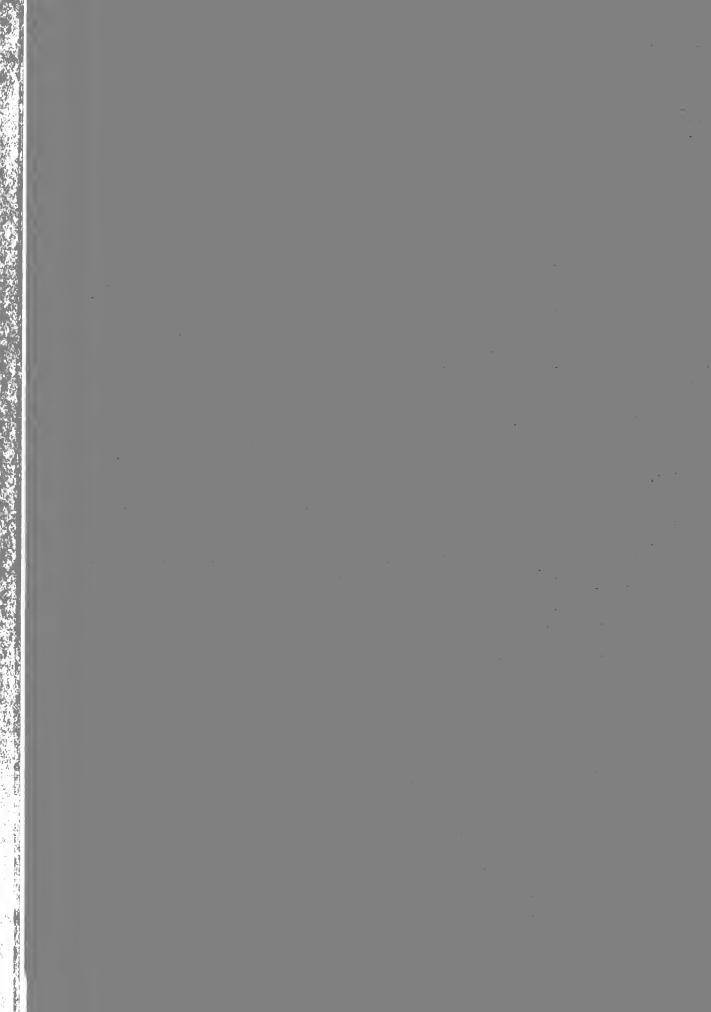
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Three Majo: Items Figure In Costs of Floring Laws

The three big items is he cost of producing the 12 million declars which of more of eggs that illinour farmers cell every year and field, depreciation, which includes more fifty, and labor, according to records which IC poultrymen kept morned the past year in cooperation with the excension service of the follege of Agriculture, University of Illinois.

Any flock owner who cuts down on there items therefore will be going a bore way toward setting a wider margin of net return out of the cash that he receives for his eggs, it is pointed out by H. H. Alp. poultry extension specialist of the college.

Frobatly the best opportunity to reduce feed cost is to improve the average energy production of each ben in the flook, as the good layers ent but little more feed than the mediocre layers. Too many flocks carry about 20 per cent defaulters - hers that start laying and then quit - and it is this class of first which runs up the feed jost of a most east.



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Illinois inject progressive progress at not although the content plan to kill of iiseas for unor filed. As a for some that exceeding a lief croject to help bolster their thouses. Already files of or enable are canhere of lainy herd improvement as done into one nined by the three ston service of he tolkes. As a fact culture, him write it Illinois are propositing violation of the land a fatte which if fillows to all dairymen while mean the liftcoal of 1 900 of the poorer lows in the state within a pear.

In this request the or culting which the ill unis shapped slopany compracticing is gift similar to recent our casts take to the federal a variable to for august casts in the casty includy.

Figures charle by J. 3. Tall assides in large extension at the airlecultural college, also that in large can continue gets 1.7 mer cant of the expection cown enrolls in the collainty has a improvement associations of the eta come explicate while in November, 1.2 year century as a total the collaboration.

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To illustrate how matry records may be improved to determ habiling to believe and betterm come, list the record of a member of the Herbook found, lainty Herm list resent Association for the repeat none at the first month that faither makes of cost, and the records indicated that eight of them in not provide enough to gat for their feel. In most of the of the cost of the cost of the month he longer matrices in 4 month costs that the longer end matrix is month. There was that we a fing seed of colleved the costs and any so of a full points of which a month.

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add Frotle - Cr land Hamilin- In At Part with Week

Face of 1,951,200 and 0, 10,000 acres of Intimits land may be contracted to the government as a result of the AAR programs on wheat and on corn and hogs. For the to handle this rand, together with other still and crop manuscreet problems in the lation to the agricultural adjustment program, are expected to hand a record munique of farmers here for the sure und props short course of the thirty-eight manual sorm and Home Niew. January 18 to 19, at the College of Agriculture, University of Inlances.

Farmers of the scate harms been alpushed their cropping growners of wears, as shown by the fact that the acreage of legunds has been steamly increasing and to acceage of wheat and corn has been beclining, it was pointed out by it. W. I. Burl's of head of the college agrouping department. However, the AAA program will specify that of adjustment, and the Farm a i Home Wesk program will be designed to help formers have tone new pace, it was explained.

The soils and prope program, itself; will not get thee way thought of annual Illinite Seed Grain and Utility Corn Show has been opened on Worlday Siternoon. Taxuary 15, and farmers have had a chance to inspect the samples and exhibits.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF HALMONS

Timely Notes to Farm Advisers and others from the April one Compage Experiment Station, and Extens in Solving

Volume XIII

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For fath is in the state are positive in so small a scale that there can not come is the some of the lonefils of the progress and the country face advisers and the extension service of the extractional polices are now starting are lesions to term the details to the that love to the last corn entities, farmer, no matter there he may re-

County lettership schools have gost been held by the college and form advisers to their local farmers who will present at the community med that.

In northern Chinnia, Stark, Wacalini, Marker I and Titlar courses were amount the first to text. Their nominabily needings, two other nomittes appresenting all the other so tions of to state and not be benind. At these meetings saugle contracts, what sheets and other pointers on the countries of the distributed and explained. Administrative rulings on special points to the contract and on other points accepted as are to be discussed and explained.

as some as every tramer has had an opportunity to perome familiat with the details of the program, the state rampaign will reach its oldness with the establishment of about 1,000 contract sign-up stations (not ghout the relab distribute of the 100 countres in Itlinois.

One of the mode important trings what from and hop products should do preparatory to significative several entity adjustment contract is to collect all joseitle "supporting evidence" regarding their corn and hop transactions during the past two years. This are letinoline information stock he number of rogs sold, date of half, estimated shares weight and to whom sold. Such information should lower the two lase years. Twomber 1, 1971 to Schember 1, 1973. Sincers also will be asked to show now many feeds trigs they cought and sold turing that time, and must certify the number of the far owed dies and feeder pigs bought and on hand on feedshort, 1967.

A remotion of at least 20 per cent in the average corn acrease grown in 1967-1935 and a cut of 25 per cent in the number of litters farrowed and togs marketed in the same two-year case period is lequiped of those signing contracts. If all Illinois corn and hog profuners signing, they would be eligible for a total of approximately \$40,000,000 in benefit payments which would start as soon an their contracts were accepted by the Secretary of Agriculture.

The aim in seeking the remictions is to balance the supply of corn and hugs with the eif our demand and thereby aid in bringing the price of farm products up to a fair exchange value in relation to the prices which farmers must pay for the things they buy.



Farm Oredit Aids Will Be Outlined At Farm-Home Week

Frominence of Illinois in current farm credit activities assures farmers that they will set ample help in ironing out their financial troubles when they attend the thirty-sixth annual Farm and Home Week, January 15 to 19, at the College of Assiculture, "niversity of Illinois, it is pointed out by those in charge of the grogram.

Wood Netherland, general agent of the Farm Credit Administration Stalouis, will be the headliner and will appear on the Wednesday morning general session program at 11 o'clock to speak on, "The Farm Credit Administration and Illinois Agriculture." Herbert W. Aumford, dean of the W. I. College of Agriculture, is a member of the board of directors of the Farm Credit Administration in the St. Louis area.

Prof. H. C. M. Case, chief of the college's division of farm management, who is now on leave as assistant to Ir. W. I. Myers, sovernor of the Farm Credit Administration in Washington, will return to discuss farm lebt conciliation and revisionancing. He is in charge of this work for the FCA.

This event will come Weineslay normins, January 17, at 9 a.m., as the opening number in the special course on farm credit protlers. This farm credit course is one of CG different ones being offered throughout the week as a means of helping farmers and homemakers work out their own recovery and enjustment programs.

Following Frof. Jase's opening of the ferm field tocurse, J. E. Hopkins, a director of the Farm Credit Administration, St. Ionis, Mo., will tell what is happening to farm mortgage indebtedness in Illinois.

Illimits is now the first state in the Union to be completely organized for production credit purposes, and this phase of farm credit work is to have the whole of Weinesday afternoon program, January 17, devoted to it. Feading off the discussion will be Dr. L. J. Norton, assistant chief in agricultural economics at the college, who is now on leave doing special production credit problems and procedures. The city of the farm Credit Abbinistration. He will discuss production credit problems and procedures.

Forential use of acoperative banks by Illinois associations will be the subject of a round-table discussion which will be led by J. R. Cosgrove, acting president of the St. Louis Bank for Congenatives, St. Louis, Mo. Speakers will include L. R. Marchant, manager of the Illinois Farm Supply Company, Chicago; C. H. James, Sputhern Illinois Seed Growers' Exchange, Flora, and Harrison Fahrnkopf, of the Illinois Grain Corporation, Chicago.

- W. -

FVA Funds May Give Farm Communities & Meeting Place

Many rural communities of Illinois now have a chance to overcome one of their worst drawtacks—the lack of a community meeting place—by getting through a CWA or FVA project for the building of a community center, it is pointed out by I. E. Lindstrom, associate in rural sociology at the College of Agriculture, University of Illinois. More than 400 community groups have seen organized throughout the state furing recent years by the extension service of the agricultural college, and there in socret of other groups that have been in existence for years, he said. Lack of a good community meeting place where such groups can have their social and educational programs is one of the real barriers in rural advancement, he believes. For the first time an opportunity for having such a building is opened up to rural communities through the provisions of the PWA and the CWA. Any rural community can submit a project for community building improvement, community building construction or park improvement.



Balanced Dairy Rations Mean \$12,000,000 In Relief

If Illinois farmers made just one New Year's resolution—to feed their milk cows balanced rations this year—they would get at least \$12,000,000 worth of "relief" in feed bills, says J. G. Cash, assistant in dairy extension at the College of Agriculture, University of Illinois.

Al they would have to do in order to pocket this cash would be to save \$1 a month a cow in the feeding of the 1,111,000 cows now on farms of the state.

This is an extremely conservative goal, Cash believes, because it is based upon accurate records taken on cows owned by progressive dairymen who are members of dairy herd in rovement associations organized by the extension service of the agricultural college. Considering all dairy herds of the state, it is likely that a change from the almost universal use of unbalanced rations to balanced, might save much more than the \$12,000,000 total in 12 months.

That this is not an unreasonable possibility is shown by actual records from dairy erd improvement association herds. In Knox county, for instance, a new member of a herd improvement association was feeding an unbalanced ration of farm grains to his 14 cows. He revised his feeding methods, as suggested by the cowtester, and reduced his feed cost \$15.06 in one month without lowering his production level.

"One month a new member of the Kankakee association fed 2,520 pounds of an unbalanced ration. The next month he fed 2,511 pounds of a balanced ration with the result that his feed bill was \$7.40 less than the previous month. Here, again, their was no change in the cows' milk production.

"Fy changing his ration from corn, oats and a high-priced protein supplement to corn, oats, bran and cottonseed meal, a Christian county dairyman reduced the price of his ration 11 cents a hundredweight without affecting production. This will make a saving of approximately \$36 for the year on his herd of 18 cows."

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Destructive Pest Of Fruit Trees Is In For "Big Year"

San Jose scale—the little insect that plays havor with promising peach and apple crops—had a rather prosperous 1933, and may have a "happier and more prosperous New Year," warns S. C. Chandler, assistant entomologist of the Illinois Natural History Survey, in a statement issued to the extension service of the College of Agriculture, University of Illinois.

"That is," says Chandler, "there is likely to be a large increase in San Jose scale infestation throughout Illinois orchards, unless fruit growers spray their trees this winter and early spring with oil emulsion or miscible oil to check the threatened 'prosperity' of the insect."

The annual San Jose scale survey completed a short time ago showed a very marked increase in this insect over the late fall of 1932. One hundred thirty-eight peach and apple orchards located in the southern fruit sections of the state showed 27 per cent of them to have a moderate to severe infestation in at least some part of the orchard. A year ago only 6 per cent of the surveyed orchards were in this condition.

Two reasons account for this situation—lack of spraying and a favorable season. In 1932 many growers took advantage of the small amount of scale and as an economy measure omitted the dormant spray. Then too, the warm weather of late October and the first half of November this past fall allowed an extra brood to develop, which if not checked by a dormant spray this winter will result in dead and dying limbs in 1934.

The standard Illinois recommendation for scale control is either oil emulsion used at the rate of 3 gallons to each 100 gallons of spray or miscible oil used at the manufacturer's recommendation.

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Number 3

Five Thursand - As a seady for Corn-Hors Sign Up

Approximately 1000 inedicants, have received their instructions and are all set to lead the first or the adjustment frive to its climax, when the statewide sign-up lags and an expension service of the College of Agriculture, between the fillings of four pires seemes of educational conferences held throughout a stat

Thinois, a rest of east 10 days the seek of special training in schools consisted by fair advisers and members of the correspondent of the correspondent to the market price of the correspondent with the correspondent to and hogs to a fair exchange value with the things rural process of the producers agree to cut their logic correspondent acresses at Said their process and their hog production 25 per cent below their 1932-1933 average, and in return shall receive a proportionate share of the nearly \$350.000,000 in the fit ayments to be made by the agricultural Adjustment Administration of a personner to be sometiments.

Within the next ten days the journants will aid farmers in their respective communities to fill in the work sheets prepare maps of their farms.

-ather supporting evidence regarding corn and hog sales during the past two years and answer questions that arise in the application of the contract to individual farms.

Then the 1,000 community sign-up stations are established at the peak of the campain, these especials without leaders will man the booth's and help the though and of cooperating famour fill in the final contract and other documents.

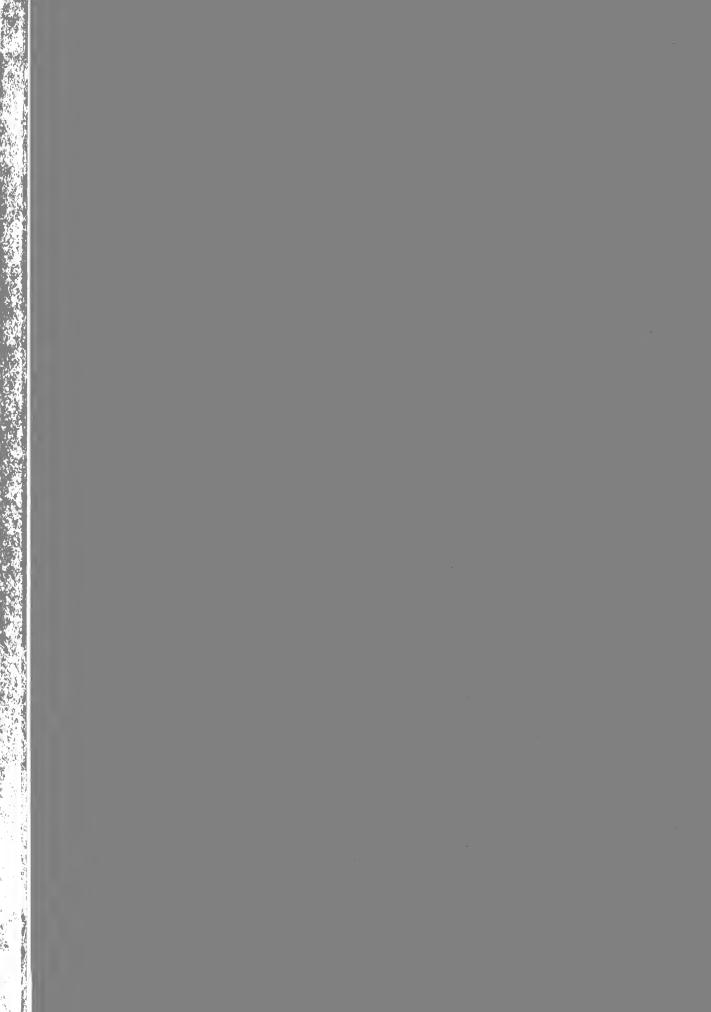
Interest in the corn-hog adjustment program is said to be running high in Illinois and a large percentage of the state's 210,000 farmers is expected to take past. It is estimated that at least two days will be required for the 5,000 leaders to receive and compile the signed contracts.

Che of the first contract signers in the state has been reported from Christian county by Farm Adviser T. H. Brock. Without valting for the sign-up days, this farier collected all the necessary information and evidence on his corn and hog production and came to Farm Adviser Brock's office of his own accord to complete the is maly.

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McDonough County Wins Two Major Corn Titles Of Year

Clarence Watson, of Macomb, McDonough county, became the new "corn king" of Indicas A-1 his ten-car sample of yellow utility corn won the grand sweepstakes in the annual Illinois Seed Grain and Utility Corn Show held in connection with the thirt, sixth ennual Falm and Home Week at the College of Agriculture, University of Illinois. His sample scored 83.7 points out of a possible 100. Frank Brown, of indicate the sweepstakes prize on ten-ear samples in the junior classes and thereby tecare the form prince" of the State. H. B. Smith, Bardolph, McDonough county Won the annual Illinois Fen-Acre Corn Growing Contest when he scored a total of 89.97 prints out of a possible 100 on yield costs and quality of grain.



Flauned Marketing Is Necessary To Got Most From AAA

Illinois farmers who sign the corn-hog adjustment contracts must also give attention to how and where they sell their hogs, if they hope to set the greatest benefits from the AAA program, says R. C. Ashby, associate chief of livestock market-ing of the College of Assiculture, University of Illinois.

"Tranting that there is a surplus of hows, will not a reflection in supplies result in a surplus of packing plants or plant capacities, and in a surplus of histitutive promisations and personnel?" asks Frof. Ashby. "As the volume of sland teritories, packers must accept a lower margin per host or cut operations costs, which is probably difficult under NEA provisions, or widen the margin between the price of host and the wholesale price of now products. The packers also have the alternate of leaving hog margins unchanged but charance a larger portion of overhead expense against beef cattle and lamb operations.

"Likewise, assuming reduced how supplies, it may be expected that compeliation between packers for both quality and quantity will be stimulated. However, to set the full benefit from such transition, the producers must adopt and support sound policies of marketine." In this connection from Achby explains that such a market-

ing policy might well include:

l.--Elimination of all ineffective hor walsomen and salar abenduct both cooperatively and privately operated.

d.--Better chardination of sales objectives by sales arenales on each warket. Twice in 1933, sales arenales at Curcara demonstrated that a sales program can receive the united market support.

3.--Coordination of markets in sport of a round same program.

hops on a parity with competing terminals—quality and gived considered—and which return to stockmen their fall share of the possible brokes.

"Individual producers can not achieve rung a program," says this market

"Individual producers can not achieve rund a program," says this parket apecialist, "but groups of stockmen can when enough of them lemand it. Planned name keting is the logical sequel of planned production."

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Even Old Pair, Bulls Get "New Deal" On Many Farm:

Old lairy bulls in Illinois are not meaded for the last round-up" but one in line for a "new led" at a result of a harrer repart held for them by dair man of the state, says C. R. Rhole, member of the dairy department of the College of A. "18 culture, University of Ellinois.

Many Illinois larrymen plan to reduce the size of their herds, explains Frof. Eliole, and to work with fewer but better cows. Since the quality of the cows and not the number, is being emphasized, these men naturally turned their attration to the selection of damry bulls that will size officient producing daughters. Many farmers have had the experience of butcheries the best bull they ever owned before his daughters came into production.

A program launched by the extension service of the college, callend for a coreful selection of young sires, keeping the good bulls until their daughters come into production, and securing production records through dainy hard approvement associations has been responsible for retaining many good old bulls. Buch sires caliber fit into the national farm adjustment programs planned to give greater net returns on reduced volume and expense, says this dairy authority.

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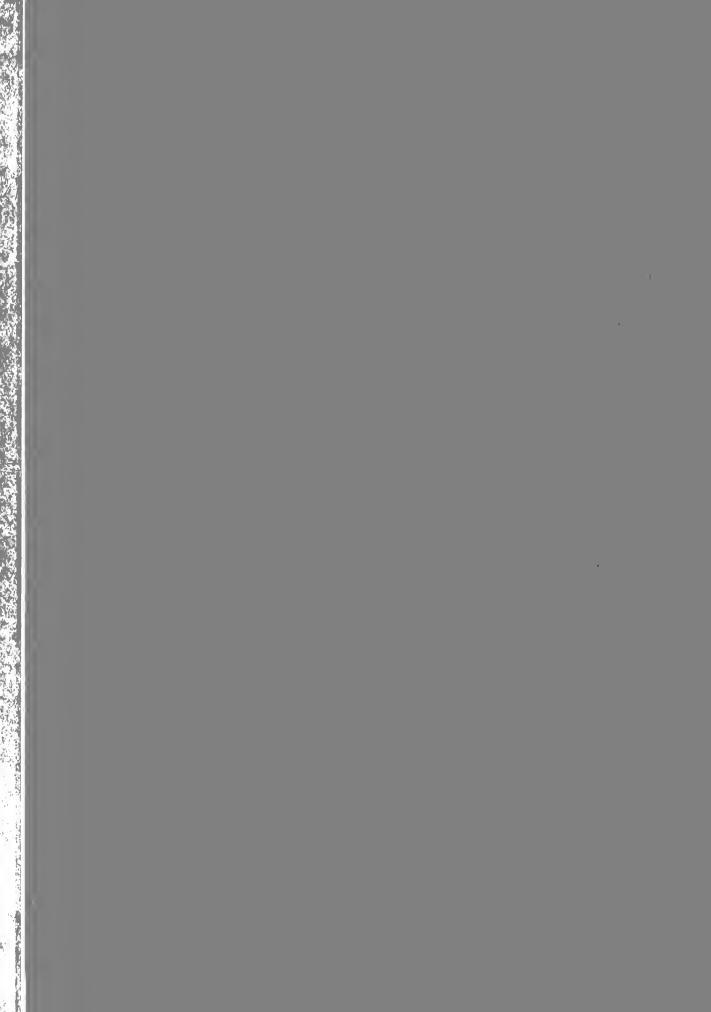
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Wheat Checks To Illinois Growers Exceed \$1,135,000

Buying power of Illinois farmers has been increased by \$1,135,831 within recent weeks as a result of participation in the wheat production adjustment program last fall, according to figures compiled by the extension service of the College of Agriculture, University of Illinois.

This amount is represented in checks mailed to £1,894 farmers in 67 counties of the state by the Agricultural Adjustment Administration, Washington, D. C., as the first benefit payment made to those who agreed to reduce their 1934 wheat acreage by 15 per cent as compared to their average acreage during the three base years, 1930-1932. Checks to wheat cooperators in the other 35 Illinois counties are being sent out from the AAA headquarters as quickly as the contracts can be checked and accepted by the Secretary of Agriculture.

This first payment is at the rate of 20 cents a bushel on the allotment each farmer received, and the second payment of 8 cents a bushel, minus the pro-rata cost of administering the plan in each county, will be made after the spring planting season. Illinois farmers will receive approximately \$.',612,000 in benefit payments on their 1934 wheat crop.

With a total o. \$9,170 in 1,117 checks, St. Clair county leads in total payments made in Illinois so far. Mascr county ranks second, at this time, with 1,100 checks to farmers totalling \$70,074. Randolph county has received \$61,932 in 1,251 checks, Cass \$52,570 in 706 clasts, Menard \$39,698 in 502 checks, Washington \$37,267 in 886 checks, Scott \$32,809 in 589 checks, Pike \$31,524 in 390 checks, Macoupin \$23,592 in 669 checks and Jackson county \$22,476 in 481 checks.

More than 2,000,000 acres will be taken out of wheat production in the United States in 1934 as a result of the wheat production adjustment program. The purpose of the project is to reduce domentic production in line with actual consumption and exports, which in turn is designed to bring wheat prices up to a fair exchange value with the things farm people must bur.

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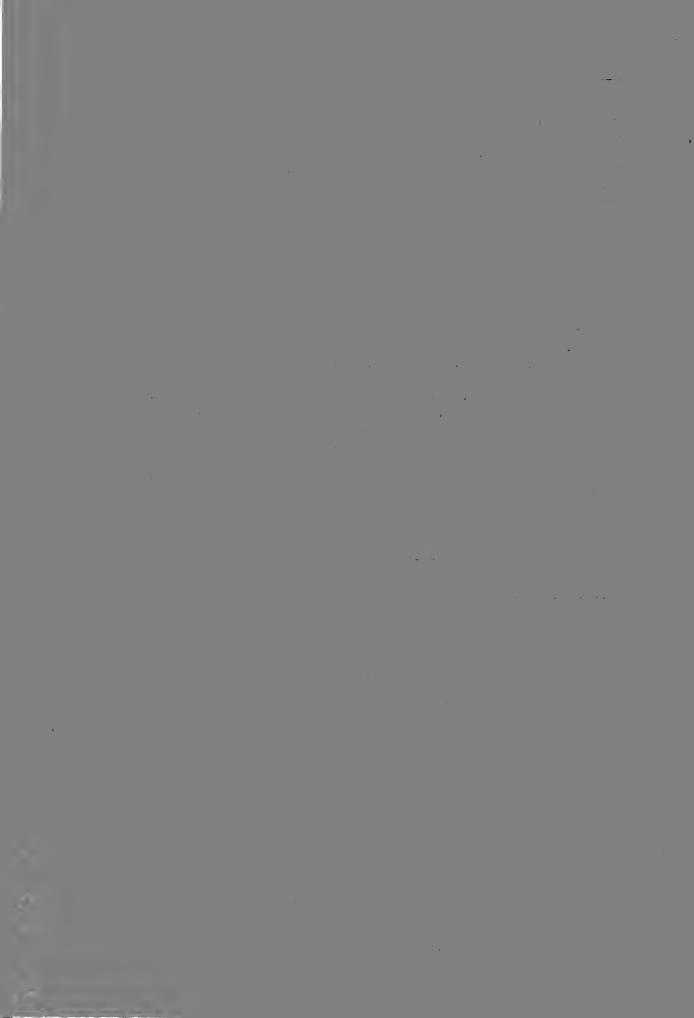
Ascured Sale Of Crops Ic Essential On Small Farms

Thousands of city dwellers who are considering the possibilities of moving onto a small farm with the hope of improving the family income should bear in mind that such farms are likely to be disappointing unless careful plans are made for the production and sale of the products, says H. C. M. Case, chief of farm management in the College of Agriculture, University of Illinois.

"The 'small farm, well tilled' idea was prominent 15 years ago, points out Prof. Case. "As with any form of farming, 50 per cent of the chance for success rests with the individual. Actual farm experience plays a large part in determining a man's chances of succeeding."

No one type of small farm is best. Some people are more successful with poultry, while others succeed better with some specialized fruit or vegetable production or a small dairy farm. Usually the small farm can not well develop many different kinds of equipment, inds of production because of the cost of maintaining different kinds of equipment. In a period like the present, when large diversified farms are hardly meeting operating expenses, there is little chance for the small diversified farm.

The small farm, it is explained, should look first of all to the provision of family needs, and secondly, to the development of some one or two important sources of income for which the market is quite definitely assured. The small farm is the most successful and has its most important place in supplementing some income from other sources. But in any event, success depends mainly upon the ability of the farmer to make a good plan and to carry it through.



Oats As Feed For Swine Suggested By Illinois Tests

Wider utilization of oats, which are still extensively produced in spite of the declining market for them, is suggested in a new circular, "Oats as a Reed for Swine," by W. E. Carroll, chief in swine nuclandry in the College of Agriculture, University of Illinois, and now available for distribution.

With the disappearance of 800,000 horses and mules from farms and city stalls in Illinois—the chief outlet for the state's 4,500,000 acres of oats—farmers have been casting about for suggested uses of this grain. The usefulness of oats in the cropping system has been the important reason for their retention on Illinois farms, but in view of continued extensive production and the reduced market value of oats, it has been desirable to find some way of expanding their use. Feeding oats to swine under certain conditions and methods is suggested by Prof. Carroll.

More than 1,000 pigs have been red at the Illinois experiment station since the spring of 1326 in an effort to determine the most profitable way to use outs in swine feeding. The results to date, as summarized in the builtin are:

l.--Oats can be used extensively in place of corn in the rations of pregnant sows without noticeably reducing the efficiency of the ration. They may also be used in sew rations during the suchling period, but to a less extent.

O.--For growing-fattening rigs, one-third of the ration may consist of oats without reducing the rate of gain compared to the rate when corn is used.

3.—Grinding 100 pounds of cate and feeding them as one-third of the ration saves about 27 pounds of feed as compared with the amount used when whole cats are fed in otherwise similar rations.

4.--Hulling oats and feeding the incrnels to growing-fattening pigs is less profitable than feeding ground oats.

5.--Only when oats are as chesp as corn per pound will a ration that contains oats in any form produce as cheap gains as will a ration of corn and a protein supplement.

A copy of this circular, No. $\frac{1}{4}l_{+}^{\frac{1}{4}}$, "Oats As a Feed for Swine," may be had by writing the College of Agriculture, University of Illinois, Urbana.

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Cleaning Ditches By CWA Workers Is Boon To Farmers

Using CWA workers to clean out ditches and natural channels is helping farmers in one of the most important draintee problems Illinois agriculture faces to-day, says E. W. Lehmann, head of the department of agricultural engineering at the College of Agriculture, University of Illinois. This work also is bringing benefits, to communities and the state at large.

"The problem of cleaning out ditches is a serious one in many localities," explains Prof. Lehmann, "and the lack of a plan for maintenance makes it necessary in many cases to organize so that the work can be done and the cost distributed among the people in the district who are benefited. The use of CWA workers, not only accomplishes this reduction in cost to the formers, but aids in poor relief efforts, relieves to an extent the pressing problem of unemployment and gives idle workers an open portunity to sustain their self esteem.

"The growth of weeds and brush in many open ditches retards the water flow to a point that the effectiveness of the drainage is greatly reduced, even though the outlet from tiles may be satisfactory under normal conditions."

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Timely Notes for Farm Advisers and others from the Agmin bindal College, Experiment Station, and Extension Service

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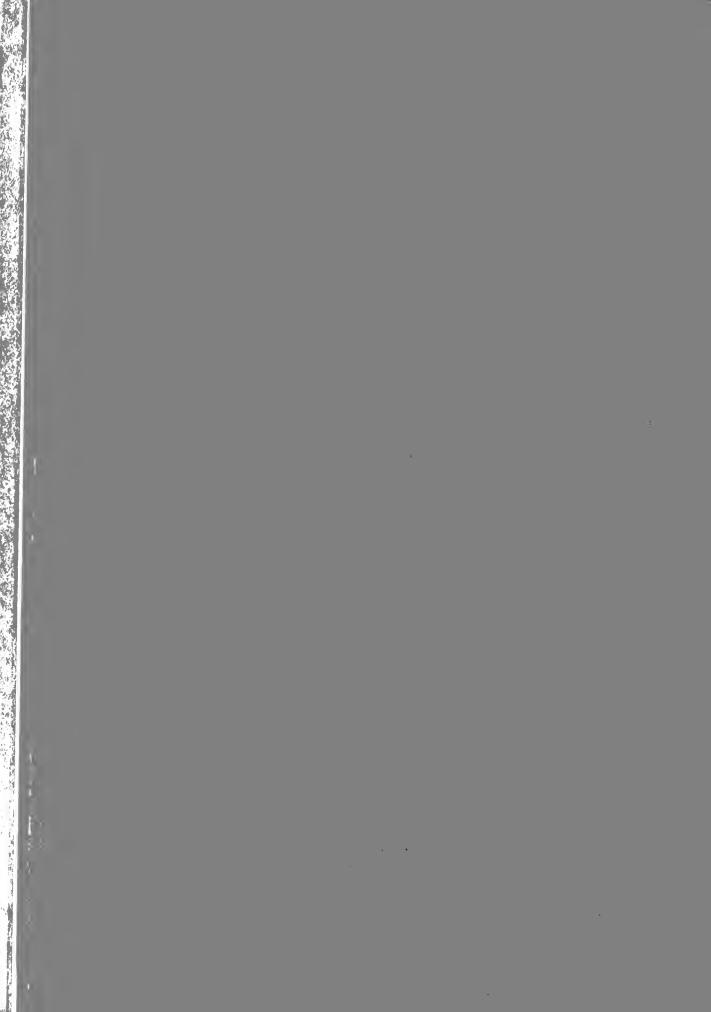
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Tin his application the hatchers operator should find the total hatching of the including all incubator transforms on the period of the first hatcher. He che li irol je vith his morths and less non-rath the soft the soft owener is the The name of the standard control, the second continuous of a standard control of the second control of the sec



Culling Sows Is Profitable Even Without ANA Program

Getting rid of the puoper cowe in Illinois' sains breeding herds would be a profitable way for Illinois farmers to cut their pool cost. Indicative same time reduce future unwieldy north supplies, even if there was no AAA corn-hog adjustment program to pay producers for making the reduction, cays R. H. Wilcox, of the department of agricultural economics, College of Agriculture, University of Illinois.

The fact that it costs the same to carry a sew whether she produces a large or a small litter makes it a profitable practice to wood out those that give

any indication of being poor breeders and poor mothers, he pointed out.

"Cost figures collected by the college, when applied to the present hag situation, show that a 13-per cent reduction in perk supplies could be made under present corn raice levels without reducing the total form profit a cent if the remaining 37 per cent of park was produced from sows wearing seven pigs to the litter instead of an average of only four.

"Thirty per cent of the cost of reising page for market is consumed in feeding, housing and certae for the saws on the average corn-tell farm," explains Prof. Wilcox, in referring to the feet that Illanois farmers may proceed individually, and at the same time collectively through the corn-log program, in their efforts to adjust production and obtain a profit in swine production.

"Under present price conditions, a stillinois surmers could well afford to cull out and sell five out or every ten sows on the farm, if this culling leaves five sows that will weam three more pigs to the litter than the average of the ten."

This statement is borne out by investigations of 100 cost records kept by 34 to 37 central Illinois farmers for a three-year period. Figures from these farms show that 19 per cent of the sous weamed spring listers of seven or user. These two groups, while another, I have sent weamed spring listers of seven or user. These two groups, were within a few cents of each other in the cost of maintaining a sow.

More detailed information relative to these feets is given in Bulletin FF, entitled "Some Important Factors Affecting Dista in Hog Freduction." Jopies of the bulletin may be had by addressing the College of Agriculture. University of Illinois, Urbana.

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Horse And Tractor Exceptes laward On (C Farms

Two thousand Illinois farmers have proved that whether an operator should use horses or a tractor for power still depends upon the farmer's individual abilities, his financial resources and the particular condition of his farm. There is no basis, so far as not income is concerned, for recommending any one type of power for any large group of Illinois farms.

This is revealed in a study of the cost of horse and tractor power on Illinois forms made by F. E. Johnston and J. E. Wills, of the form management division of the Tollege of Agriculture, University of Illinois. Details relative to the study have just been made available in Bulletin 199, published by the university agricultured experiment station.

The actual experiences of some u, " Tarm operators, as shown by Financial records kept on 1,351 farms in 1330 and 1,539 farms in 1371, were used for this study. Standard tractors, general-purpose tractors and tracks were included.

Many farmers have asked the college if they could increase their net incomes by changing from horse to mechanical power, or from standard to general-purpose tractors. Horse-operated farms, standard-tractor farms and general-purpose tractor farms, according to this new bulletin, were found in general to have the same net incomes when comparison was made between groups of farms comparable in stap, although the gross incomes were higher on the tractor farms.



"Corn King" "Uns After Seeking Honor For 30 Years

When Clarence Wattor, 47-year-old McDonovsh county farmer of Macomb, won the "corn long" title of Illinois during the recent thirty-slack annual Form and Home Week at the College of Adriculture, University of Illinois, he climated a F6-year quest that he has be a making for corn growing honors in the country's second largest corn producing scate.

He won the fitte when his ten-ear cample of yellow utility corn won the grand sweepstakes in the annual Illinois Seed Grain and Utility Corn Show held in connection with Farm and Home Work. He has been growing and showing utility corn ever since the University of Illinois introduced it more than 15 years ago, but even before that he had been growing and exhibiting good corn for almost a coore of years. However, this is the first time that he has ever non asste honors, although he has been getting a little higher every year, he rejected.

He is a firm believer in the Illinois' system of permanent soil Pertility as worked out and advocated by the college of agriculture. His four-year grop rotation system includes corn, corn, outs and clover, and he uses limestone and phosphate wherever it is needed on his farm. In addition to producing about , I tushels of seed corn a year, he feeds around 16 head of Hampshire hogs and 56 head of Hereford cattle.

He is enrolled in the form recounting project cooncored by the extension convice of the agricultural college, and for four years has been a member of the agricultural economics advisory consisted to the approximent station of the college. He also has served as a director of the Illinois Crop Improvement Association.

He and his father are the only forcers, besides the initial owner, who have ever lived on the late-care tam, which he now are rates. He father bought the form in let . Both the father, who is 41, and the roth r, who is 74, are still living in the cut.

It was in life that international condendate the university short courses that have since become the annual Farm and Home Wack. That pear he won a free trip to the event as a prize on a bushel as seed corn in a lessel corn show at Macomb. We had been coming to Farm and Home Wack more or loss regularly ever since.

His prize-winning comple at this pour's show was pieced out of i, 110 mark grown in a 41-agree field that avaraged 60 brobble an more despite the hassuary of it was ther.

-1/-

Irses May Prove Real Pay Gove On Page 12 MAA Land

Graving trees on land contracted to the government through the ARA meat and corn-hag adjustment programs will prove more advantageous to farmers in many parts of Illinois than crops planted on the same ground, says L. R. Cawyer, ent naion for-ester of the College of Agriculture, University of Illinois and of the Itlinois Natural History Curvey.

"On a large majority of farms throughout Illinois, where corn-hog and wheat contracts are signed, the less productive land will be removed from cultivation," explains Sawyur. "Thier the terms of the contract such land may be planted to trees for woodlet, windbreak or forest purposes. This is a decided advertage to farmers living in northern and central portions of the state. It gives he can curoriunity to establish the long-needed protection without reducing the area of the form that is available for sultivation.

"In many cases this less productive land will grow to see to better adevant as then it will grow tarm crops, even under more natural conditions. In the future such tree plantings will yield valuable to ber any . In their will bid in the control of excision, or belt."

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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLIPHOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Jil e XVII

F-Ciust. 1, 1935

Number .

Est it Figuring Shows Avantages Of Cora-no, Plan

Times of the surferement's corn-log a fraction to entractions so advect ageous to Illinois farm is that oner some circle trancer it might be not promitiable agginer to sight used not producing in the clivar. These and other "relieve it or not" facts are revealed in a segies of formulas. As out on the AAA corn-hop contract by rise. It is Free, head of the ieperturn of a sequency, College of Agriculture, Unit ensity at Illimous.

The the contract require that conservators afree to remove their number of little of the contract related and the number of bogs causer to make the number of bogs causer to make the process telewith a series of those base years. As compensation, pontract since will get tenetit payments of \$5 wheat on their nose minus the local abilitistration of the cross sales returns.

This I SD-post increases to sold in line for \$ 47 a humine cought and assuming that he by ruge feel as is \$4 for each 100 punis market weight and the more products to similar and not rise any hope this year than it would be to inner the other. In program and raise the same number as the 1932-1973 average. Altermoral the producer without a base if the producer with past of local aministrative expenses.

Firth of that the corn-hosplan is fair to the producer is shown by one of Frof. Rights formulas which increas that with the full \$5 a bead benefits, hope with have to trine \$ - a bear in 1904, regulars of veight, become the enes denough of the non-signer will enough those of the farmer conjection with the med. Belo a mark topice in \$10 a head, the contract signer's returns will exceed those of the non-signer; show \$15 the gross returns of the necessary storwill exceed those of the producer who returns his producer who returns his production 20 per cent in 1934.

For example, let it be assumed that the contract signer produced an average of 100 hear of nows in the two base years, and in 1994 he agrees to make only 75 near. If he want tyrice should jump to \$15 a head, le could receive \$1,125 from the sale of he real \$500 in benefit payments, or a total of \$1,500. The non-signer will continue to raise his average of 100 nors and will receive \$15 a head from the sale of the stock, or \$1,500 in gross returns.

Much the weight of the hole is considered and a small deduction from the fend it payments is made for local administrative expenses, Prof. Rusk explains that PCS-pound hors must bring an everage of \$7.55 a hundredweight before Illinois producers can afford to pass up the opportunity of signing a corn-hog contract. This, of course, is assuming that the non-cooperator will produce the same number of hogs in 1934 as no averaged in 1932 and 1938. The corresponding price for 240-pound hogs is \$4.120 a number pounds.

The non-virgor who raises freder rips to around 70 pounds is gambling that the carket value of his your steps will jump to \$31 a hundred, or war-time prices and



Stockmen Yor Have Cannoe To Dicker With Terminals

Rapid increase in the number of local livestock markets within recent years has put Illinois farmers in a strong position to bareain with the larger terminal markets for a reduction in the mark time engences on the 176 million tollers word on more livestock they sell every year, in the opinion of R. C. Jabby, resocrate chief in livestock marketing at the College of Agriculture, University of Illinois.

How provinent local livestock markets have become can be judged from the

How provinent local livestock markets have become can be justed from the fact that an estimated FO per cent of all Illinois hops moved direct to market in 1932 without soins through terminal markets, Astry pointed out.

"If stockmen were sufficiently or family dual decided that it were advised to renew terminal market patronage, they could not to the retors of the terminal market involved, specify the volume of livertock they were in a position to return to that market and baryain for a reduction in marketing expense.

"This would be in line with the recent agitation of stockmen for a larger patronage of tarminal markets. In some sections stockmen have signed up to make all livestock at terminals for a so-cified parion

"Should stock a continue their campaign for increased patronage of terminals without organized baraninias for a duped terminal charges in return for increased meccipts, they will have everlooked an excellent opportunity. Fusiners men rould never pass up such a chance. In the same way organized producers who preferred to keep on patronizin local markets could baranin for a higher price with the alternative of coing to the terminal market if the local market did not meet re uirements.

"Every terminal stockyards company could handle 50 per cent more livestock than it is handling now and do it at relatively little more cash expense than in handling current receipts. If accured a definite increase in volume of livestock, the company could afford to make concessions in its charges. One stockyards executive said but a few months ago, 'If we could double our volume, our cash handling expense would not be proportionately increased and we could afford to reduce our charges. Speaking for our own company, we would be glad to do it.'

"In one area stockmen already have approached officials of a terminal market as to the reduction of charges in proportion to increased receipts."

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Advises Flanting Locust Trees On Retired AAA Land

Planting black locust trees on retired wheat and corn land contracted to the Agricultural Adjustment Administration supplies a four-fold purpose that might well be considered by many Illinois farmers, says L. E. Samyer, extension forester of the College of Agriculture, University of Illinois and the State Matural History Survey. Black locust trees comply with the AAA requirements, they prevent soil grossion, aid in improving the nitrogen content of the soil and in time will furnish a coop of impact fence costs.

"Soil erosion, which is so destructive over a large portion of Illinois," explains Sawyor, "may be controlled easily and economically by planting trees, and one of the best variaties for this purpose is the common black locust. Being a legume, this tree enriches the soil, and where black locust has been planted a heavy soil becomes established within a few years. In addition to its soil-holding ability, black locust produces one of the most durable fence post woods that can be grown in this section of the country. In 10 to 12 years it will often produce, posts 4 to 5 inches in diameter."



Care Of Sows is More Essential Voder C. wellog Plan

To get the most out of the "new deal"--which to Illinois farmers means cooperating with the AAA corn and hog adjustment program--producers might profitably give greater attention to reducing spring pig death losses, says W. E. Carroll, chief in swine husbandry at the College of Agriculture, University of Illinois.

The corn-hog contract requires that a cooperator reduce by 25 per cent, not only the number of hogs marketed, but also the number of litters farrowed. Thus getting an allotted number of pigs for market from a given number of litters makes it highly desirable that the producer have reasonable control over the death losses of the pigs. "Any 14 of every 100 pigs farrowed weak live to be weaned, while 90 out of 100 strong pigs live to a weaning age," explains Prof. Carroll. "Then too, 3 to 15 per cent of all pigs farrowed have no chance of surviving because they are born dead."

The chances of the pigs surviving are determined during the gestation periody and healthy save are, of course, necessary for healthy page it is said. The kind and amount of feet the save receives apparently influences the strength of the pigs at birth, for a certain amount of process and mineral matter are essential for the development of the unborn pigs. A disciple mixture composed of equal parts of limestone, bone meal and sale is as good as any, except in goithous preas where I to B ounces of potassium iodice should be mired in heach 100 pounds of the simple mineral. Exercise of the sow during gestation also contributes to the strength of the pigs.

Any of the common farm gives include used as a basis for the cation for pregnant sows. Legume hay is essential for best results when posture is not available. Whether to feed protein supplements in addition to the grain and hay will depend largely on the age and condition of the lows. If it are more likely to need such a supplement than mature sows. One fourth pound or tankers, one-half gallon of skim milk or one-half pound of soybeans per lead will usually suffice and is good insurance against pig-eating in sows craving additional protein the last month before farrowing.

Sows should not be allowed to become so fat that they are lazy and awkward. They should, however, be put in high enough or idition to milk well after they farrow.

-M-

AAA Wheat Money Used For Wide Variety Of Necessities

"The butcher, the baker, the candlestick maker"--all are sharing in the \$1,377,851 in benefit payments that have been received to date by more than 26,000 Illinois farmers and landowners who cooperated with the AAA in adjusting their wheat acreage in 1954 and 1935, according to a survey made by the extension service of the bollege of Agriculture, University of Illinois.

Even Santa Claus got a "lift" in some counties where the government checks arrived before Christmas, while other beneficiaries included doctors, hospitals, insurance companies, grocers, clothing merchants, bankers, implement dealers, threshing men, hired help, and so on along the line.

The wheat benefit payments received so far, it is said, do not represent all that is coming to the farmers from the AAA this year. Before another wheat larvest is over, the total bonus for the 1934 wheat adjustment will amount to approxitately \$2,618,000. Further improvement in the Illinois farmer's income is anticipated then the exchange value of the products rural people have to sell is increased as a result of the various AAA programs.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

Fahmung 14, 1734

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First 20,000 Signers Resented J. John-Est Compact a

Sim-up of Illinois fermed in the overnment's sorm on the projection adjustment progress reports had been no civel from only if the 100 counties and the pangain was a selected selp a little sore than well started, according to an announcement by lean Herbert W. Murford, of the Callege of Admiralture. University of Illinois and director of the admiraltural extension corpuse, who is charroup of the state giving committee on the constitute.

The line-up of the ten leading bount is a on the roots of incomplate process (Peperts because to the extension of the form county form advisors up to Tuesda, high was: Iropa is, Farm Advisor C. E. Johnson, 1911; Livin often, Form Advisor 13. 3. Turner, 1,287; Parcau, Form Advisor Poul V. Isan, 1,000; Aloma, Form Advisor Q. F. Russell, 18; DeMalb, Farm Advisor R. M. Rammason, Fig. Mutuaile, Form Advisor F. H. Shom n, FOC; Konkokov, Form Advisor G. T. Ev in, 199; Herocoln, Farm Advisor T. F. Laf n, 199; Matia n, Form Advisor T. T. Wan, Far, 199 Prople, Earn Advisor R. V. Watern, 199.

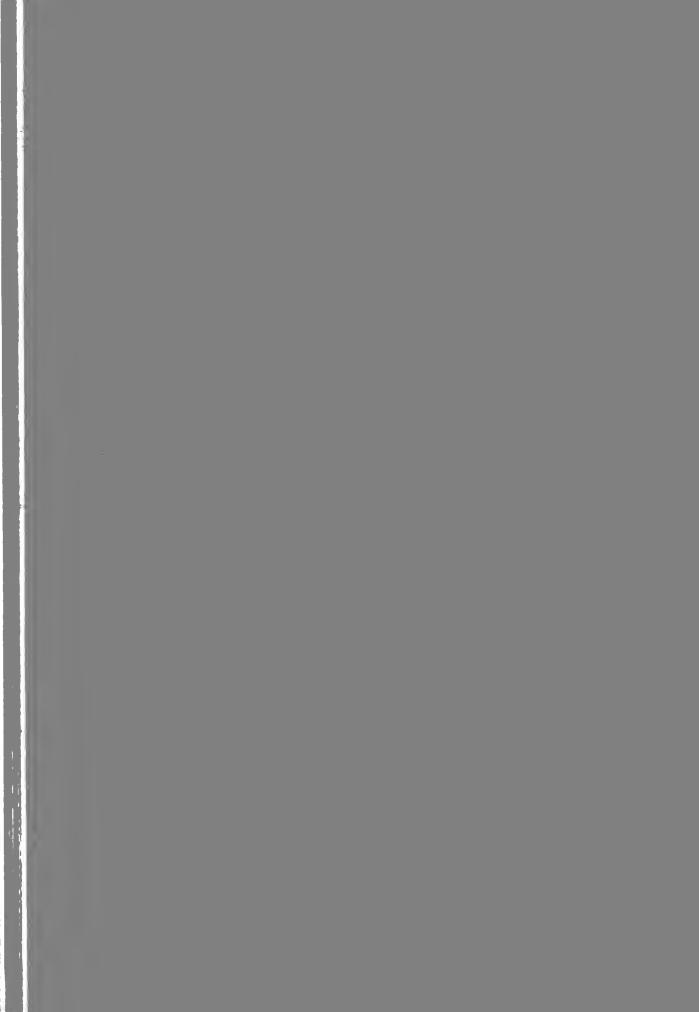
Within the nort form willing it is entired that we bill we all persons of the eligible problems in the state case join with their contents in the reluntary governative abvenuent to adjust problems on the femand and there is arranged, the effects of farm prices that have sunk lower and lower as a result of the loss of farmer where and other causes. In no county has the compaism of court felles the properties, and in practically all counties farmers are they filling in mark sheets, and leasing supporting swifence and as nine contract application.

Approximately 1,000 eign-up stations will be combined at 1215 cent points in the state lumination compains to make it want for every Illinois for an accordance the plan and become climible for his share of the \$40,000,000 or the ambit in his ments to be listributed to cooperation farmers in this state, it was attented in First. J. C. Spitler intate 1 ador of farm edinasts. He is representable the extension service of the College of Adriculture. University of Illinois in the exception.

Their the may for the sim-map, advoational meeting have been hold in practical model counties of the atote by county farm allieurs and the extension or vice of the spicultural college. Sixty-eight of the 10% counties have reported 1,29% meetings attended by 130,83% formers anxious to learn object the contract on the purpose of the contract.

Inaltion as then to which of countres holding often and he educational continuous have reported, it is delieved that the total number of Illinois formers who have sixen preliminary information relative to the adjusts of province than the 130,331 reported, or 136.831.

F. M. Thoman, farm advisor of Whiteside country, regions that more than A, MCC Carmors in that country have attended the corm-hos adventional country to a largest total attendance reported to date. Other corn and his order to be a traditional than the have reported include Henry, with a total attendance of 1,777 Eding to 4,060; Transferd and Jusper countries with a combined attendance of 1,777; Brocke of the total 3,740, and Christian country 3,373.



Chinch-Buz Count Shows Five Pimes 1933 Hibernation

Last year chinch burs reduced the corn crop in 70 Illinois counties from 15 to 50 per cent, and unless May and June of this year are unusually dry, the 1934 damage from this insect may be double that of last year, says W. P. Flint, chief entomologist of the Illinois Natural History Survey in a report of the extension service of the Cellege of Agriculture, University of Illinois. A study of the records of the weather bureau also reveals that the chances are three to one that the two crucial months will be favorable to the chinch buss.

A recent survey of the former infested areas indicates that there are at least five times as many chinch buts in hibernation now as at the same time last year, a serious threat to the state's nine million scres of corn. Only the counties in the extreme northern and southern ends of the state are exempt from possible chinch bus damage, explains Mr. Flint.

Possibly 10 per cent of this likely menace can be checked by farmers sho will burn over areas where chinch but a are prone to winter. From 80 to 90 per cent of these over-wintering insects will be found at the bases of bunch-forming grasses, particularly the native grasses such as blue stem, prairie trass, bunch grass and broom sedge. They will be found on the south slopes of ditch banks, roadsides and the south and west sides of heldes where accumulations of grass and leaves are evident. From 100 to 5,000 chinch burs under each square foot of cover have been found on farms in central and north central Illinois.

These favored types of protective cover should be burned off sometime between the first of Lecember and the middle of April, when conditions are dry enough so that the fire will burn close to the ground. Burning against the wind so that the fire will spread slowly is recommended.

It is not necessar, or advisable to burn over whole treath of woodland or the whole farm, explains Mr. Plint. The burn are nearly all in the couth eige of the woods or in the favored localions mentioned previously. Well established stanks of blue grass seldom contain large numbers of burs and should not be burned. It is better to look over the favored hibornating places and concentrate in burning these thoroughly, rather than burning over the whole farm, it is said.

-M-

Market Check-Up Is Nevt Mive Arter Flannel Farming

Now that stockmen and farm is of Illinois and other corn belt states are spind in for planned, adjusted production on a larger scale than ever, their next move might well be a shrewl appraisal of the advantages and disadvantages of local livestock market as assainst terminal markets, according to R. C. Ashby, associate chief in livestock marketing at the College of Agriculture, University of Illinois.

"Major advantages to farmers of local markets include (1) convenience, (2) no delay in securing returns, (3) some apparent saving in marketing expenses and (4) avoidance of risk of price change, since on short haul deliveries the approximate price can be known before the hogs leave the farm.

"Major disadvantages, less apparent to the farmer and hence frequently disresarded, include: (1) less assurance of accurate weights, (2) non-competitive sorting and grading, (3) payment not guaranteed whereas at terminal markets all dales agencies are under sovernment approved surety bonds guaranteein payment to Chippers, (4) local markets have, on the whole, tended to weaken the level of how prices and

(5) while affording an apparently desirable outlet for hogs, many local manners to not handle other livestock, leaving the producer to dispose of cattle, calves and ofteep elsewhere."



Industrial Rise Is Seen As Boon To 1984 Acriculture

A world-wide reversal from a downward to an upward trend in industrial activity is of basic significance to American farmers, but unforturately the growing spirit of nationalism in different countries has set up conditions which greatly limit the foreign market outlets, according to the annual state agricultural outlook report just released by the College of Agriculture, University of Illinois.

The AAA program now being applied to export supplies should, however, aid United States farmers in setting full advantage of whatever improvement is made in industrial activity in this country, it is pointed out by agricultural economists of the college. The purpose is to adjust production to the reduced foreign demand while supplying fully the domestic requirements, it was explained.

Improvement in industrial activity looms large in the farmer's hopes, for such activity determines the incomes of non-scricultural consumers and these consumers, in turn, are the principal source of the farmer's income, the report points out.

The latest available index indicates an increase in inbutrial production in the United States of 26 per cent in 1933 as compared with the 1932 low point, an increase in England of 13 per cent, 17 per cent in France, 23 per cent in Sermany, 9 per cent in Italy and 25 per cent in Japan.

This increase in foreign industrial activity would be a more hopeful of more the American farmer than it is if it were not for the fact that European nations have progressed in their campaigns for agricultural self-oufficiency, the report points out. Improved foreign outlets for U.S. agricultural products apparently must come from negotiation of reciprocal trade treaties, which are of limited possibilities, or result from a devalued U.S. currency, the effects of which would be temporary.

"Germany is now on a surplus casis in tye, wheat and mot. France has begun to export wheat. Italy is self-sufficient in wheat. Encland has adopted a definite program of increased production of domestic bacon supplies, imports being restricted more than 16 per cent for 1934. The United States quota is only slightly more than 6 per cent of the total British import. As a result of the London wheat conference the United States was assigned a quota of 47 million bushels of wheat exports for 1934 in contrast to 26 million bushels exported in 1933 and 82 million bushels in 1932.

"Asricultural exports constituted 49.9 per cent of the total United States exports during 1909-1914, but only 36.4 per cent during the period 1927-1932. Whereas 14 per cent of our total agricultural production was exported in 1921-1925, only 7 per cent was exported in 1930-1931."

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New Bulletin Sifts Bosic Factors In Milk Marketing

A decline of from 10 to 15 per cent in the per capita consumption of milk and cream in important fluid milk markets of the United States during the past several years has been caused principally by retail prices which have been too high in relation to consumers' declining purchasing power, according to results of a study made by Dr. R. W. Bartlett, of the department of agricultural economics, College of Agriculture, University of Illinois. Findings made in the investigation have just been published by the experiment station of the college in a bulletin entitled, "Frices and Consumption of Milk in Specific Cities as Related to Industrial Payrolls and Other Economic Factors."

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Firm Advisers and others from the Agricultural College Experiment Station, and Extensive Service

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Grand Good Reed Davidle Light ALA and Other Fragress

Thousands of formers in Illinois not talling wort in the covernment's cornact and whent adjust cont programs will as well to look to their incediate cupyly of pacture and may seeds on hand, for the desmad this opinion map be double that of a rewinus years, says J. 7. Hackberra, erry, extension specialist of the Callage of Agriculture, University of Illinois.

It is anticirated that suproximately 1,710,100 across of Filinais corn land way be retired from production under the ADA coll-box contracts, while loss full cross JT., The some work withheld from normal whent production control program. It is likely that there would nearly a 100 across will be planted to logues or produces—an appear a nearly squitalized to all the tone key produced in Illinois in either less on 100.

Additional liminate are being the on the note of an or against as a result of other severmental activities, such to the faithful said encount service, work of the divilian semantary of any of the divilian semantary of any of the Donnessee valley are, of.

"Lagrand seek in measured on anti-out relentified or interest former varies." weints out Tref. Healthours. "The our also as all different above all discounties only a week of the 100 horsest of releast to an extract of an extract of the AAA programs. The probably not sufficient to seek the outer decomic as a result of the AAA programs. Since hereast, however, altaliant and red the er weeks have seen leaving our shores in much present suantities than our sequence.

"The list Sentence releases by a contact about the severage for the true sortion in the list purposed by the list in a principal true of less to list, including. Listence, red clover exports during the tome three menths of less of times to great as the lieuwer everage sortion. The three minutes and exports were relatively much less eignificant in view of the real cumplical rule north burst-cont of these seeds at this process of the page.

"Illinois harvested she shows as supblan only in 100 that it has hed in several years, owing to a reduced correspond the law unable resulting from late clantings. Sophean pricessors untilly too their needs by sarky supplies in Satober, Bossaker and Setember of Lost year, and hald of the threshop been county to now in their hands. The remaining beans such a most the world demand for sceding symmotically 750,000 cores in Illinois, as well no cleaning contracted cores to be turned under.

'Thousands or bushels of compenent Horean lespedaze and mall be need in coutharn Illinois for seeding on compacted land that is too acid or too law in photphorus to grow alfalfa, red, absile or meannoth clovers.

The supply of grass deed, however, is more mearly adjusted to neet antici-

"It is advisable for formers who have a limited supply of his surrown clower seed in hand to send recleaned sumples to the state analyst for expression, a that they may be ready to sell any entra supply. Illinois farmers sho is not have sufficient seed on hand to full their requirements chould make the necessary arrangements immaintely," says Hackleman.

In this connection it was announced cast the U.S. Describent of Agriculture has just issued a new mineographed circular antitled, "Fasture Plants and Pacture Mintures Survected for Seeding on the Adrespt Texan out of Botton, Tobacco, Whent and Sorn for Erosion Prevention and Soil Improvement."



AAA Deiry Phone Touch Englagiv, Illinois Industry

Illinoid would take front ron erosin so in any bir, erobation adjusts U ment progress such as recently outlined by Sear tary of Agricultur. Henry 4. Wellace, For the other steads fifth omens all states in total mile oradmesion, it is rointed out by members of the dring department, College of Armoedtor, University of Illingia. During the pact four percentions with the cold of dring reducts off Illinois fundahes be needed. The fillinois fundahes be needed. The fillion dollars.

The tentative alon which the abilistration is effecting to the being inductry is an individual valuating or all official arguests financed by a crossosing tax on all butterfet in sile and it. The east of a consule my few on also preprint. The mate of the procession try mould exemitably reach I cents in only reach of butterist in all lilk and it and or or it are or authory too or also are rine. emivalent to the ten rete on butter.

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Fewer and bett respect to respect light quality product. It improposited and more profit ble costs have tend to respect about Illicit and by compact fring herd improvement respects tion and special process, so that college of Agriculture, University of Illimit, I'me pointed on by thing and the malleque It appears, how was, that make laid a state or earliest well-engine a transfer Mailsee himself has said tet, "If you are to a cour lensing a grant a net of ted corn, the path of the disprinciple lines to be rough. Our court did so to termine? by the recronse of dairy a right and their warracentatives to this right. "

Growing Quality Smill Impit: Now Feint Made Heri m

Small fruit mover, including both the lowe-gradener type and the congrantial producers, this suring will be a transport chance that they have ever hed to get started with superior, righ requality varieties at a reasonable ecot, and rdana to Dr. A. S. Colby, chief in small Druit colture at the Collect of Agriculture. Unieversity of Illimois. Movertheless, amostoctive buyers should of course that the voricties they buy no adapted to the climatic, sail and other condition, in their Trarticular locality.

During the prot o veral years in a smell fruits have been devolved through controlling methods of plant broading shield are prently sweetier to the older variaties, plomarly standard, Dr. Colty soid. Many or there newer variable of ight och be given a place in the ll,000 acres or more of shall fruits that were reported for Illinois in

the last census, he said.

Most numberies are coordinated in the otate numbers instruction convict to grow and sell only disease—from a tock, usually true—to—now, esint sout Ir. Calby, and the prospective buyer may nurch as from no one of several reliable nursery direct with the certainty of setting high-closs rlontos

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Timely Notes for Farm Advisers and others from the Ag and and C lage. Experiment Station and Extension Service

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New Sign-In Corn is To F who, deer alguates to

Foreitalities for inth a neglecting the entered of reset on Illinois forms have been brightened by a telegram which Dean Ferbert to exclosed, of the College of Agriculture, into roity a Illinoi, has received from AA headquarters in Walkington announcing the respension of the whole signed to odd to any furname who could not are did not sign up last fall. Then for extending the lelinois signed were started immediately from receive of the telegrap.

Reopening of the signers in the administration to the simple for the ring to further educations. Creaters who have an normalities a coldense, for the rings to be negligible. The sound for embedge-nt tracks of an above to the coldense of the first 1977 benefit payment thick accords to a branchite. A created received of the results—tions will cake it possible for the introduct to be drawn or the factor who had an uncertaint than according to the constructe mall not give late common an adventure of a coldinal classics.

The fit is abundant of instruct orbits and construct one instance buch were organized following the place of the dign-we had a like of the distribution of the sign-un as a robe class of an object of the Vision to a complete at the distribution of the Proi. T. C. Ten into a ten induced on the distribution, and is not to obtain the extension dervice of the College of first distributions the rest of Tills are in the College of first distribution in the College of first distributions.

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Its representation as a green commed for value in the arresentation of still order a problem representation of agreen commed for a stilled a by different least a from the Hilbert fool experiment sields. At the Dimon field, on a still of most reclassivity, what allower in a retation of earn, case and wheat improved the still to the extense of 17 busheld of corn an agree annually, as a three-year average, where it was the norm fertilizing constituent. Where wheat and note attempted to the laid, they enhanted the value of sweet clover so a soul builder by I busheld of corn on as a self-like Dixon, residues from timethy, with a fertility level approximately the sound of political phase, residues from timethy, soybeans, red clover and aliangs fell chart as a political the tensity of sweet clover combined with out and wheat there are no asked by 30, 17, 1 and 7 bushels of corn to the once, a continent.



Cato Smut Takes Heavy Toll Of: Farms Co Illinois

Last year out smut extracted a tax of impossimately 4,844,446 busheds from Illinois formers, and a similar out loss may be expected in 1004 unless drowers properly treat their seed to prevent this common disease, cays Benjamin Hochler, associate chief of crop pathology at the Gollese of Adriculture, University of Illinois. This tell amounts to an average loss of 6.5 per cent of the out crop for the state, and although the disease is an enably-controlled one, count damage on come forms amounted to as high as 35 per cent last year, it is said. For control, two treatments—the formaldehyde and the Geresan—and recommended.

The most satisfactory was of myalying formaldehyde to the out seed is the 50-50 method, which is practically many process. A pint of conservial formaldehyde is mixed with a pint of water in a quart-cize appayer of the hind wood in mordens and cow sheds. As one can showels the out seed from one gibe to mother, an attendant handles the appayer, giving the result "chate" of the liquid on each acceptual of cats as it is picked up. About a quart of the formaldehyde-water sixture chould be applied to each 50 bushels or seed.

After this has been done, the oute should be turned over agent by shoveling the seed into anoth rigide, or into specie or a vagon box. If the seed is not specked, it should be covered with convent or taken cloth for at least live hours. The same are then ready to use or say be stored for several days without serious demage. The cost of this method is about two-thirds or the unit a bush 1.

New Improved Daressen, enother recommended disinfectant for treating outs, is a dry dust which should be reclied at the rate of one-half sunce to each bushel of seed. It is weat to mix at the recipilit with the training of a regular treating machine or a concrete mixer. If the riving in thereugh, the city can be peaded at once, otherwise the seed should be covered with convers or second and stored overnight. Storage for longer than a fee days or a week, however, will reduce the yield.

While this latter weened in a little more expensive, colding about two cents a bushel, it helps central other diseases that are sometimes present in addition to smut, it is said.

Teach Puper : Throut no Teaching Liverteek M. nhata

Unless local and terminal investock market, on be better costain and or new influences change existing conditions, the vest terminal markets which have been built up in this country and eventually give way to the newer local agencies, predicts R. G. Aghby, accordance chief in livestock marketing at the College of Agriculture, University of Illinois. This conclusion is supported by the findings of a three-year study by Art. This chows the effects of the operation of local livestock warrate upon terminal markets.

Local livestock markets have greatly decreased the hog receipts of the terminals, while found. Until 1/21, hog receipts at the public stockyrris sureeded the federally inspected claughter, but by 13%2 terminal receipts amounted to only 17 per cent of the hogs inspected by rederal authorities. In 1/2 but a per cent of all hogs claughtered under federal inspection were reschared outside of the rubble markets, while 10 years later this fagure had in classic to one than 10 per cent. For not too, local markets have decreased supplies of hogs available for talk on the sublic markets even more than they have reduced restitts. At Chicase in 10%2, more than 14 per cent of the hogs received were not color of for sale on the open sorbet. Moreover, operation of local markets has wended to lower the sublity of the inel target receipts, particularly at Chicago.

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Timely Notes for Farm Advisers and others from the Agricultural C. Reger Experiment Station, and Extension Service

TITLE XVIII

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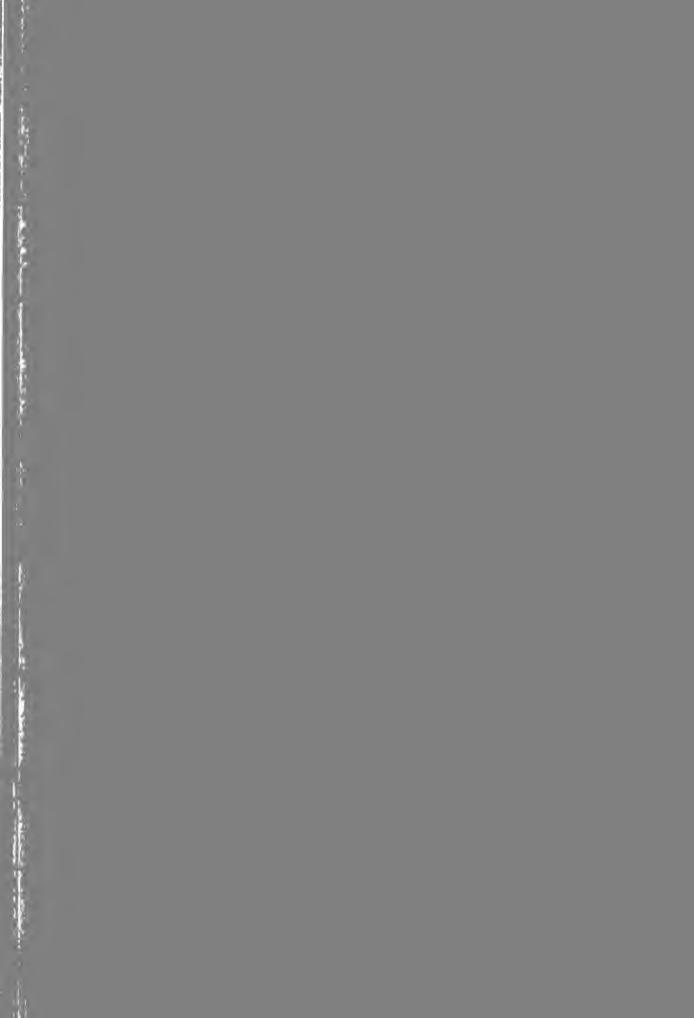
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The Extension Messenger

Seed Mixture For AAA Acres Include Several Chaices

With probably a hundred forage plants to choose from, Illinois farmers taking part in the AAA corm-how and wheat adjustment programs have a singular opportunity to restore come of their oli permanent pastures or need new ones on the retired acres. says J. J. Pieper, associate chief of the eron production at the College of Assigniture, University of Illinois. At least 25 of these crops are used more or less commonly in the state.

To make the most of their opportunities formers must select the incredients for their pasture mixtures that are best alarted to the poil and that at the came time fit the needs of the prower.

Kentucky bluedrass is one of the most regular for sastures, explains Fierer, and is adapted to the better soils comewhat inclined to be sweet. Timothy has a wide adaptation for fortility and Arginar in all parts of Illinois, while relies is a favorite on poor, acid and well largethere of the mander find at difficult to get a stand.

White obversions many the county to was over the Common terms of the well on your, acid will while while will now when it is too ast on acid or defeated falfa, sweet or not concer. We then dream to him to be well-than tempeleza may be substituted in a type issues on the substituted in a type issues on the substituted in a type issues.

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Greek, well-drained land--Zortalby bloomers Copensis, refets 3 togethy 4 and algits and white olders of possion wash.

Wet fields - Red top & gounds, tunction i, meadow instable and also se of own.

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Poor, sold soil: --Orchart ara to Seconda, mod tones, Casada bloser to Seand alsile oldern Borrigo. Lempless may be abotent i for alsole eiger in a florm half of Illinois.

anaded areas--Orchard grace 5 pounds, pouch actual meator arabe 5, est forouge 4 and claibs and white clover 2 pounds each.

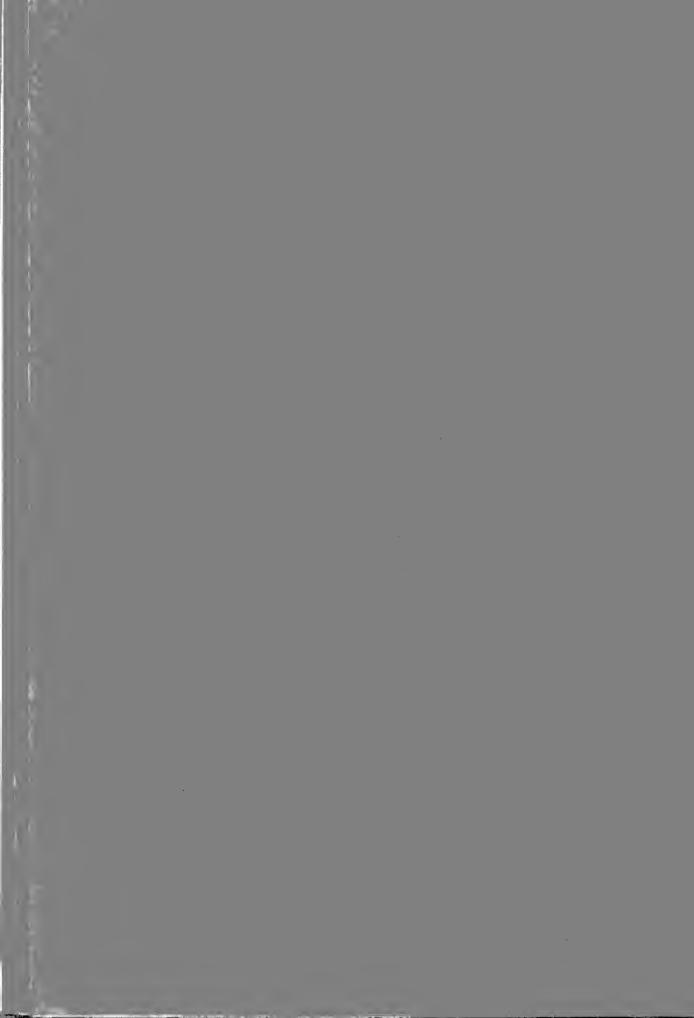
Where the soil is sweet and fertile, alfalfo or red clover may be added to the above mixtures or used to replace other lammes at the rate of A games to the acre for alfalfa and 3 pounds for the red closes.

Chinch-Fur Invasion Will Not Catch Farmers Unamere

Although chinch bug threaten the heaviest invasion in many years, the destructive insect will not eatch Illinois farmers unamare, says D. E. Lindatron, acsociate in murel occiology at the College of Apriculture, Univer ity of Illinois. Durin: March and April come 417 mural community unit: located in all marts of the State will hold their regular monthly meetings at which time the chinch bur and recommended methods of control will become almost a compaign is see as the chief toxic for discussion. From 1 to 28 such ground will meet in ever, Illinois county.

Itemina over areas where chinch bure are great to winter, revision in crop rotations, was of chinch-bus recistant crops and other sacrested control procludes will be included in the discussions at the community dectines. Farm advisors, local families, members of the college entension staff and entemplo into of the Illibrais Matural History Survey will be the feature speakers.

Community action, so the moult of an objectional campains through pural organisations which make up the 417 community units, is believed to be write effective in to tering combat practices. Through group action, the burning of small rest.tof-ways has been accomplished in some localities, and where the dame resolvabling Wild life is small, other public wasto places componly information of missing map be closmed un.



"Bolives it or not," on I was must be lefted a short of all and rejet to be set on: ill motor from the tofic times a cook hap to the arm, han come the constitution of the constant of the con

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taingn, on took out opings of the that a listoped of red, look of apportion so, finally one ility to years, fell red by unconsellaners, and simption, points out Dr. Franko. Leath men serve in one to six depote the appeartio ognitoms, emi sando de omimalo me mem.

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Timely Notes for Farm Advisers and others from the Agricultu + Configs, Experiment Station, and Extension Service

Volume XVII

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Totals for the court of counties were. Elser 1.825, Alone 1.784, larcock 1.700, her 1,478, Erex, of 478, DeKalb 1 173, Talewell 1,400 Macon 1.791 is 1,780, Main a 1,780. Fulton a MG, MrDings & 1,800, Pike 1,480, In Sala,470, Machinelistics 1,483, Woodf of a 4-1, Morner 1,470, Orlev 1,481, Okristopa 1,440, the approximation 1,863, Isotopa 1,180, Isotopa 1,800, Income 1,800, Inco

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Wheat Cash Bo: Paid Half Million In Old Farm Dobts

Nearly a half million dellars in all debts have been paid off this winter by Illinois farmers who signed up in the AAA wheat adjustment program, if a survey of the use of the first banefit payments make in No on a canty may be considered as a borometer for the state, ways Marshall Harma, of the agricultural economics department, Collage of Assiculture. University of Illinois: la addition, some \$202,430 in current debts have been liquidated with funds from the same observe.

According to the later' figures available, \$1,511.7.7.4° is where tenefit payments have been received by farmers in the total who agreed to reduce their 1934 wheat acrease 15 per cent below their overage production during the three years of 1930-1932. A check of the use of this money in Masin country indicates that 31.1½ per cent of it went for the payment of old decides. 3.39 per cent was paid on current accounts. When these percentages are applied to the total Illinois wheat payments to late, they indicate that man observed by \$173,170 so mural obligations have been cleaned in.

Major countries considered as typical of the state's wheat producing area, and it is believed that the open of the benefit money there is applicable to the nearly 25,000 prowers who signed up in the wheat adjusteen program in filterias. As the Major county prowers came to the country week and the first open to the open to the property of the first and the filter and produced indicators have they were asked by Form Adville 2. By Jone to fill in a quarternative indicators have they intended to spend the money.

Less than figer cent of he homefit money we not seek as it atolog as cording to the current and atolog for the farmers of the east become to echane circulation in a cord time, where is miselian important the fiscal of condition of business in several.

Other was to the the surmer clanned to apply the reset to payments and the percentage on well by each order for a continent of the percent, machinery 5.8%, receive 6.8%, come 6.8%, labor 6.4%, live smock 5.8%, seed 1.6%, however, and pre-fined and miscullaneous expension of the pension

continues if a utilization of AAA benefit funds to clear the distributedness and to cupply the current neces of the farm and how will so such to relive acricultural economic conditions and to tart to wrong of industry functioning normally, it is pointed out.

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Illingis Turkey Producers Sugariue To Fush Quality

It may be a long time until grouple will be thinking wheat region a Pankow giving or Chrismas turkey, but Illinois turkey growers already have stacked plane for educating consumers to the superior quality of this state's birth, while at the same time further improving that quality.

For the first time, turker errowers of the seate have organized a state association, and chief among their objectives will be the sattern of consumer education and quality improvement, according to F. H. Alp, poultry extension appoints of the C llage of Asriculture, University of Thinois, who is again tire with the project.

Illinoid was producing more than \$1,000 teaksys annuable, according to the last census, but most of the turkeys could to Illinois nonsumer on a range fed birds from Texas, Alp pointed out. Turksys produced in Illinois are if ampurion quality be cause they are fattened in closer confinement, he explained.

Earl Kennedy, of Amboy, was elected first precident of the turker promers! association when the organization was formed at the recent meeting in Floraineton.



Record Tree Crop Bring Set Out In Illinois This Year

A record number of 151,000 trees are being put out on Illinois farms this spring as part of the plans to speed up the proper attlication of land and bring about better planned agricultural projection, according to 1. S. Sawger, forestry extension specialist of the College of Agriculture. Volversity of 101,000 and of the Illinois Natural History Survey. This total of 151 and trees in the lar ent on record for any one year in forestry project sponsered by the extension service of the agricultural college and other agencies, Sawyer said.

Almost half of the IF1.000 trule, or about 60.000 of them, are block locust that will be planted for exercise control and the holding of blow and land in different parts of the state. Swenty-five thousand of the black locust trees are going to farmers in Icharler county for an exemion control project which Farm Adviser I. E. McKinzie is conducting in cooperation with the extension service of the asympultural college. The First National Early of Aranzvilla. Cass county, is patting out 22,000 black locust, red gine, pltp. pine, white ash and Forway agrace trees.

About 32,000 witch pine trees will be planted on and vapils and on worm out farm soils as a timber crop. In addition about 10,000 Norway spruce and white spruce are being planted for Christmas trees and los similtreaks. One planting of 20,000 Christmas trees in being made in DoKalb county, and another of 10,000 in Livingston county.

There are also about 2.00% religions these in the 151,000 that all the detout this aprine, and the rest are ash, maked and a vernety of other specie. that are to be used in referentiation rate. The plantines will be scattered in Hardin, Edwards, Fichland, Johnson, Williamson, Vertalian, Fiatt, Folton, Clark and McLean counties, in addition to the several conducts mentione?

Planting for the 151,200 trees is a new forward with time when the outlook for forestry is much this been than it was been for neveral years, lawyer cointed out.

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AAA Frograms Will Cut Costs On News Illi wis Farms

With less corn and wheat and fewer hass to tend the thousand of Illinois farmers participating in the communent's AAA programs will have an opportunity to reduce their operating costs in 133½, posticularly in the case of labor and power, in the opinion of J. T. Wills, of the few management division, College of Agriculture, University of Illinois.

In a great many farms, says Wills, there will be less spent for fuel and other tractor costs; and the expenses for horses can be reduced, if the animals are fed according to work done. If extra labor is normally hired for field work and how production, it is possible that AAA cooperators may be able to reduce this item of expense.

On farms where the operator and members co his family perform all or nearly all of the work, the chief problem will be to use the evisting supply of labor to good advantage. In such cases, it will be possible to give more time to a number of practices known to pay well, get requiring little or not outlay other than labor.

Among these practices might be included the careful selection and testing of seeds, testing of soil, for limestone and phosphate requirements, more efficient use of manure, better control of weeds, keeping machinery in repair, control of livestock diseases through sanitation and the keeping of farm accounts. To this list should be added the opportunity that many farmors will have to make much-needed repairs on their improvements and to "dress up" the general appearance of the farm.

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Timely Notes for Farm Advisers and others from the Ago cultural College, Experiment Station, and Extension Service

V jume IVII

Mumber 12

110,000 'Carb gar sal in filter to Non-"; Or C re-House

Workers in the Illinous complete maneur entered the Last two ceases and concompaish with incomplete results a circuline that the IIC,000 mean in completed contracts had been passed. Encare additional a structar are an light at that a total of 125,000 or more is not improbable for Ollinois by the time of the leadline at 6 of clock, Saturday evening, hereas II. It was anno shedly Prof. J. C. wither, state eleater of farm advices, it is separable the extension services of the College of Advications, University at Illinois in the same loss on symm.

Up to Thesday mean, harms 30, the coste total optuals operated in removes from fame advisors at all at 10%,370. However, there were 20 continue from motion as to-date reports had not been seceived as that time.

The 73 counts a from which late check over had been received encounted that they had a total of \$1,825 coupleted contracts. This is an accusance of \$1,820 for each county, a mark high ground to get the chale total well over the 11,000 like it it holds for all the 102 counties of the state.

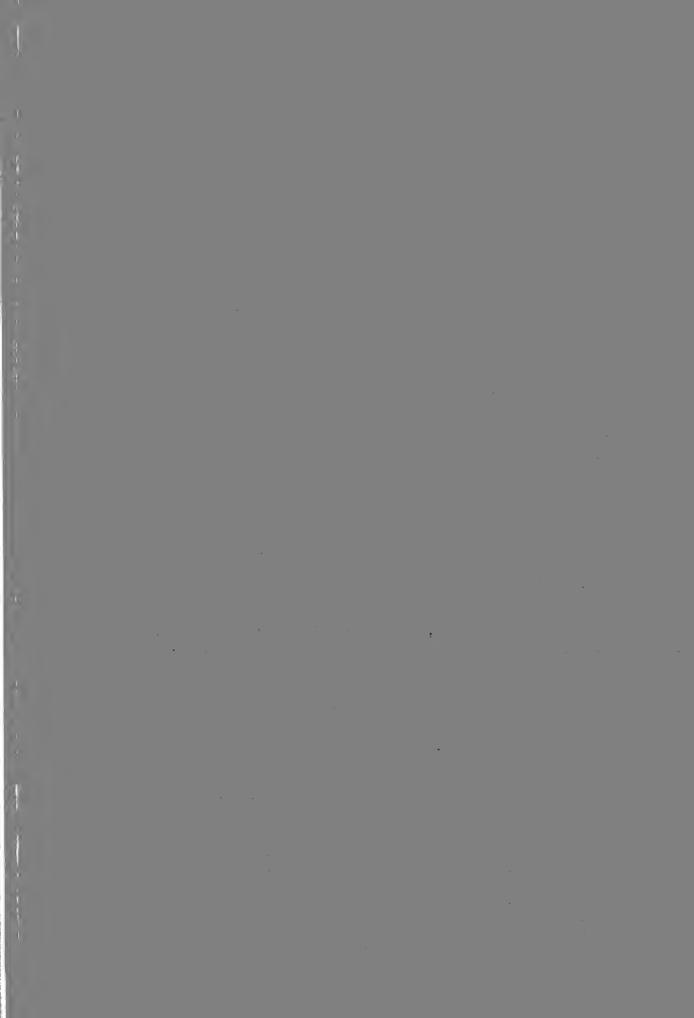
McLean county, ree largest in the state in minimum of fains and adverm and hog production, took the state lead for the first the When the semilar weekly new ports brought a new hotal of 3.200 contracts from Fain Alviser I. 2. Leitle. One other county Linearth, was part the 3.00 such which that if 3.160 contracts me ported by Fain adviser I. 3. Thirdripper in the countracts had bettern 1.000 accounts.

Irophis had 2,973, InSalte 4,500, Januarian 2,100, Vernition 2,530. Bureau 3,320, Thing 2,31/ Henry 2,243, Cangenon 2,100 and Thineside 2,000

Totals for the other counties of the state were as follows:

Adams 1,782, Bond 751, Brone 330, Frawn 714, Colling 450, Carroll 1,060. Cass 704 Christian 1,510. Clark 904, Stay 440 Clinton 253 Coles 1,636, Cook 58, Crawford 660 Cumberland 000, DeKalb 1,712, NeWritt, 1,204, Donalos 1,07. Disage 5 -. Edgar 1,826, Edward. 475, Effinghem 720, Fayette 1,116, Ford. 1350, Franklin 30%, Fulton 1,900, Callatin (13. Greene 1,240 Grundy 1,147, Fancock 1,711, Mardeison 90%, Jackson 400, Jacquer 1,010, Jefferson 615, Jersey 864. JoDaviews 1,230 Johns n 636, Kine 464, Kankhikee 1,133, Rendell 946, Kinex 1,923, Date 170.

Lawrence 465, Lee 1 678, Logar 1,528, Macon 1 604, Macourin 1,000 Madison 1,196, Marion 530, Marshall-Pitnam 1,506, Mason 810, Massac 345, AcDonous 1,506 McHenry 402, Menari 742, Mercer 1 540, Monroe 357, Achtsoner, 1,394, Morene 1,375, Mostrie 890, Ogle 1,717, Feoris 1,325, Ferry 152, Fratt 1 1,600 Pike 1,600, Tope-Lardin 180, Pulaski-Alexander 215, Randolph 632, Bronland 100, work Island 1,008, 11ne 410, Schuyler 529, Scott 590, St. Clair 4 , Stair 1900, Speedenson 1,529, Those-11 1,635, Union 180, Mabash 530, Warren 1,631, Mash Maron 20, Maxoe 90, White 6 , 411 1,213, Williamson 118, Winnebaro 210 and Wolffert 1,635.



Record Milk Cow Population Adding to Dany Frondems

The heaviest population of milk cows that Illinois and the United States have ever had is one of the basic facts that farm leaders and officials of the Agricultural Adjustment Administration are up against as they set about working out a solution of the dairy problem, it is pointed out by dairymen of the College of Agriculture, University of Illinois.

Tentative plans for milk production control will be presented by the AAA at a series of regional conferences to be held in the near future at central points in leading dairy producing sections of the country, according to official annuncements received by the extension service of the agricultural college.

There are 1,165,000 milk cows on farms of Illinois and more than 26 million on farms of the nation this year, according to figures compiled by the college dairymen. For Illinois this is an increase of 15 per cent over the 987,000 reported for 1928 and an increase of more than 23 per cent over the 888,000 milk cows reported 34 years ago. For the United States as a whole the present population of milk cows is an increase of almost 18 per cent over the total of 21,219,000 reported for 1928.

Whatever plans are made for coping with this problem will figure prominently in Illinois farming operations, because this state is the fifth most important one in total milk production, it was pointed out by officials of the college. During the past four years the average annual cash income from the sale of dairy products off Illinois farms has been almost 71 million dollars, but problems of the industry have reduced that income to as low as 50 million dollars annually during the past year or two. In 1972 dairying ranked first as a source of cash to Illinois farmers, returning 25.7 per cent of their total cash income.

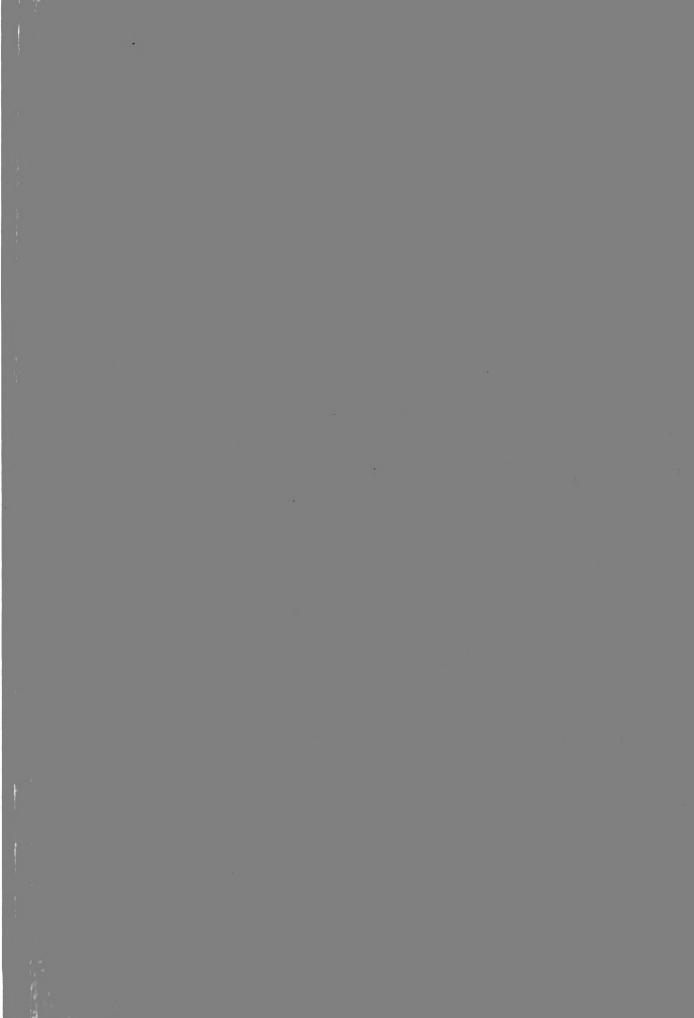
The percentage increase in milk cows has been much greater than the increase in human population during the same period, it was explained. Fewer and better cows producing higher quality products at more economical costs have long been urged upon Illinois farmers by the extension service of the College of Asriculture, University of Illinois. Many hard owners have prefited by following this suggestion, but it appears that more drastic steps are necessary. Even though most of the milk and milk products have been finding their way to some market, the returns to farmers have been dangerously low.

The goal of the proposed production adjustment program would be to bring about better returns to producers of all dairy products by bringing production more nearly into line with effective demand. Such a program would be supported and supplemented by milk marketing agreements, drawn in accord with the recently adopted policy which places emphasis upon prices paid to producers.

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Brighter Outlook for Higher Quality Fruit This Year

With more money in circulation now than at any time in the past three years and prospects for short crops in certain areas, Illinois fruit growers anticipate larger premiums to be paid for high quality fruit in 1974, says R. S. Marsh, herticultural extension specialist at the College of Agriculture, University of Illinois. To obtain these premium prices, advises Marsh, orchard men who still have prospects for a crop should carefully plan and organize their spray programs so as to produce the highest quality fruit, especially from the remaining peach crop. Now is the time to see that all spray equipment is in first-class condition and that the latest recommended spray schedule is at hand. Growers may obtain the newly-revised spray schedule. Circular 355, which gives the latest facts for the control of disease and insect pests, from their county farm adviser or by writing the College of Agriculture, University of Illinois, Urbana.



Discussion Leaders Trained To Aid In Rural Problems

Illinois farmers will be better prepared to cope with new economic and social trends affecting agriculture in the future, as a result of plans now being made to train community discussion leaders and to hold remitar community discussion meetings, predicts P. E. Lindstrom, associate in mural sociology at the College of Agriculture, University of Illinois.

The value of community discussions has been demonstrated by the nearly 3,000 AAA corn-hog and wheat adjustment meetings held throughout the state in recent months, it is said.

Several Illinois counties are now training discussion leaders and organizing discussion teams in various types of community units. Training schools, attended by approximately 150 rural people from 30 different community units, have been conducted in Champaign, Ford and Sangamon counties for the purpose of developing discussion leaders. Similar schools will be seld in other counties during 1934 so that farm and home bureau units, granges, community class and like organizations may provide their memberships with a better understanding of the new economic and social developments affecting farm life.

"The importance of discussion in rural community meetings was recognized by the Agricultural Adjustment Administration when Isunching both the wheat and cornhog programs," points out Lindstrom. "A total of 782 community meetings attended by approximately 68,000 farm people were held in 69 Illinois counties by farm advisers and the extension service of the agricultural college in connection with the wheat adjustment campaign. Later there were 2,027 community meetings conducted in 102 counties to discuss the corn-hog program. The latter satherings were attended by 191,867 of the 214,000 farmers of the state. Thus the corn-hog campaign reached more than 90 car cent of the farm operators in Illinois.

"By training leaders who can conflict discussions at miral community meetings, Illinois farmers will be letter prepared to levelop future cooperative activities related to their industry."

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Spring Renair Of Farm Machinery Saves Money And Time

With an investment of more than \$160,000,000 in farm implements and machinery, or an average of \$748 on each farm, Illinois farmers can well affort to devote a certain amount of time in the early spring months to making minor repairs and adjust ments that assure longer life and more efficient operation of their machines. This is the opinion of E. G. Johnson, agricultural engineering extension specialist of the Coll at of Agriculture, University of Illinois, who noints out that thousands of iollars are not annually by formers of the state who fail to make necessary machinery repairs before the rish of field work begins.

Lower operating costs and getting the job done on time are awards which the former receives who follows the practice of inspecting each machine, replacing bally worn parts, tightening tolts, making adjustments and applying paint when needed, it is explained. The farm machinery instruction book provided by the manufacturer with each machine is of valuable assistance, and the farmer who does not have such a booklet should request one from the nearest branch house.

To give additional assistance in this important problem, the agricultural engineering department of the College of Agriculture, University of Illinois, has published a booklet on "The Care, Operation and Adjustment of Farm Machinery." A copy of this circular, No. 209, may be secured upon request from the agricultural college at Urbana or from county farm advisers.

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Timely Notes for Farm Advisers and others from the Agr. ultural College, Experiment Station, and Extension Servers

VOTUME XVII

March 18, 1 W4

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Illianois Illy Stead First Athrils Ci AMA Trade

For the nill answer to illinous, intoh name or dainy state, have before them for constitution and acceptance or monitorable one first bilicial letails of the proposed plan for a delay profession absolutely makes under the automatic of Adjustment automistration. Farm envises, actension warkers on the College of acterulature, iniversity of Illinois and outers one may be more or less closely connected with the preliminary field work have just seen given the tentohive but no of the plan as revealed in an official telegram and other communications which bean Horbert 1. Mumford, or the College of agriculture, university of limited received from headquarters at Washington.

Tain, mentioned from row until about the first of april to about the organiand decree what they wish a do wout it. Starting Armil 'a serves of residual conferences will be held to present more petable on the process program to describe for discussion, acceptance or medification.

not been announced, but criticials of the College of Agriculture, on warsing of Illinois are expecting your or the in the father of Agriculture.

Illinois has a large stame in the program, for the state is the thirst ranking one in total life production, and normation of the case than we are the case the production of Thirds farmers come from Allytims. Further the case than we are the sheringed cash one are true the sale of fairly products on Illy hold farms had onen almost of million hollars, in todaying the place year or two this through her are paid of as the as both million dollars, a condition which the crotices approximate desiraned to conset.

The aim in the plan to restore the pulchasing there have, remers will be to mild production at about the level of recent months. This will mean that cooperating corporate will have to remove their sales by from 16 to 2, por cent below the peak in 1932 and 1:8.

In addition to the higher crices that might be superted to result from the adjusted production, benefit parments are to be paid to dispending producers at the rate of right 40 cents for each point of butterfail or about 71 50 for each singles 111 contact of ibid wilk that the observator reduces.

100 organis to be financed by a processing two starting of one central point on fatterfal and advancing to five cents a pound as supply comes under control. The plan is a \$105,000,000 one providing for extension to \$500,000 G/O in event of congression laction penalty legislation.

ed strongt reathnes of the growing sugged the relieu distribution of surplus milm to undernestabilideer and the transfer of cows to be unclus areas to meet, farm samilies. There is also that nevision for disease eradulation measures.



Rich Illinois Soil Adds Foll Share To Imeson Toll

Even the soils of central Illinois, once thought to be of inexhoustable fertility, are constituting their share of good soil to the three billion tons of soil material which erosion is washing off the fields of the United States every year, according to F. A. Fisher, Illinois regional director for the soil erosion service of the W. S. Department of Interior.

The entire seven inches of richest ton soil has been washed off of 47 percent of the first two sections of land that were surveyed in the erosion control project which the Department of Interior is starting in McDoan county, Fisher reported. This is all the more striking in view of the fact that the land has been famed intensively for less than 100 years. The inprzy throughout the area is probably not as great as this, but the damage as a result of the erosion that has been going on all these years is severe the pointed out.

It takes Nature roomt 400 years to failt a single inch of productive top soil from raw sub-coll clay indicating that it will take to been 2,000 and 3,000 years to repair a wound like in the Mobean one ty area, Tister soul.

Erosion is estimated to be desired in fairness of the United elected \$400,000,000 a year or destroyed load, loss of clent food and through other charmels. The evidence of what soil prostor is discussion will a count, is possible that farmers in that section and in other parce of the thirts, or payors their field share of the toll, histor said. Approximately half the 30 000,000 acros in filling a currous subject to crosson of one frind or another.

Demonstrations who now being stated in the Volcan courts project to show farmers how to hold their soils in place by means of gully does and other mechanical devices, how to change their property system to minimum scill vashing and how to manage their fields so that the limits peak to built up induction at the destroyed. Different departments of the College of Agriculture, University of Illinois are cooperating.

The McLean county project, spread out over an erea of 14.,000 acres, is one of 20 which the Perartment is extension as principling in different parts of the country to cope with the metade of soil erosion. At least 1 million acres of formacily cultivated land, an area as large as the state of Thinois and much of it originally good land, have been proctically distorted by erosion. Another 100 million acres of crop land are in serious larger. More than all million tooks of subscribed solid matter all many core millions of lans of dissolved matter pass out of the mouth of the Mississippy river every year.

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Illinois Second Arope 00 States In Corn-Hog Sign-Do

This our raids second among the all endes that have digned up the first 800,000 contracts in the government's corn-hog adjustment program eccording to respond which the extension service of the Gallers of Agriculture, University of Illinois has received from Agricultural Adjustment Agministration headquarters at Washington. The Illinois total is more boom 110,000.

the sign-up to date is resarded by leggers of the campaign as encoraging evidence that a large proportion of the corn and hog production boso of the state and the nation will be covered by AAA contracts when the sign-up is completed. This, of course, means definite progress in adjusting corn and hog production to offective demand and thereby rebuilding the farmer's purchasing power, at was cointed our lowe, conceded to be the largest producer of both commodities, is first with a count of 155,000 contract applications, according to the latest figures available.



Best Vegetable Variable basted For Illinois Gardens

Every scason adds a few more new varieties of vegetables available to Illinois gardeners, and 1934 is no exception, says B. L. Weaver, of the bacticultural department at the Culisge of Agriculture, University of Illinois.

This ever-increasing list of varieties is often confusing to the multiple gardener, and even more so to the farmer or home gardener, unless it is realized that many of the new names mean only a slight change in size, shape, order, textury, flavor, season or productivity points out Weaver.

After many tests under varying conditions, the experiment station are resolved of Agriculture, University of Polin is has singled but a number of varieties found to be most applicable to IP mois conditions and which can be recommended to most growers. These varieties include:

Asparagus - Mary Washington.

Green snap bush beans - Stringless Gress Fod and Bount ful.

Yellow bush beans - Feneral Fod Prack Wax and hound for Kidney Wax.

Tele beans - Kentucky Wonder.

Bush rima beans - Henderson's, Fordbook and barpee.

Bosts - Early Wonder for early Clanbung, Lutz Greenleaf for lace, and Detroit Dark and for canning.

Cabbage - Golden Agre and Copenhagan for early, if Phsarium witt disease is not present in soil, and Jersey Queen, Marion Market and Wisconsin All-Seasons for later harvest.

Carrots - Nantes Coreless, Chantenay and Red Core Chantenay.

Sweet corn - Howling Mob for mid-season; Evergreen, Golden Cross Pantam and Top Cross Pantam for late. Early varieties are not recommended owing to prevalence of Stewart's disease.

Lettuce - Black-Seeded Simpson and Prizehead for Lear New York and Mignonette for head varieties.

Muskin-lurs - Lake Champlain for early hale's Best Bender's Surpuss, Tix Top, Honey Rock and Hearts of Gold for main crop; Chio Sugar for green flash visitity Radishes - Scarlet Globe and Saxa for early; Crimson Giant Unite Sciels

and Cincinnati Market for late spring; White Strasburg for summer.

-M-

Some 23 Common Crops Serve As Hosts For Chinch bugs

Some 23 different grasses will aid the chinch bug in its destructive march across Illinois this spring and summer unless farmers take steps against what threatens to be one of the worst infestations in the past half century, says C. M. Woodworth, chief in plant genetics at the College of Agriculture, University of Illinois.

It has been found, however, that the chinch bug does not relish legumer such as alfalfa, sweet clover, soybeans and other clovers. Thus planting these crops so as to separate the fields of small grains, corn and grasses is suggested as one of several control measures.

So far as small grains are concerned, explains Woodworth, barley, spring wheat, winter wheat, rye and oats are preferred by the insect in early spring. The second brood, which comes along in June, and July, feeds mainly on corn and the screenings, including broomcorn, kafir corn and Sudan grass. Other crops on which the chinch bug can exist, in the absence of small grains and corn, are millet, timothy, tarnyari grass, tickle grass, crabgrass, foxtail and other wild and cultivated grasses. Kentucky bluegrass idea not seem to be attractive to the bugs, and only a fer are usually found feeding on it.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service.

Volume XVII

Arril 4, 1934

Dhumber 14

Illinois Dairymen Give Views On Adjustment Program

Views and suggestions of dairgmen and agricultural leaders in Illinois, fifth leading dairy state, with regard to the proposed program of the Agricultural Adjustment Administration for the adjustment of the dairy industry are a matter of record, following a regional meeting at ladianapolis on April 2 and 3. Indiana, Ohio Michigan and Y nturky, in addition to Film is, were represented at the needed.

No deri ite active for or against the arcaram was laken at the meating, the idea being merely to get the class and content as of farmors and dains leaders. Sentiment of producers at Li similar meetings to be hild in different care. If the country will determine the administration's next stop on the coins crobbem. The meetings will not be concluded until the middle of the month.

The official Illino: representatives autending the Indianapolis meeting were Dean H. W. Mumford, of the College of Armiculture, University of Illinois; H. A. Buche, head of the dairy apportment; C. S. Rhode, dairy extension specialist; J. C. Critler, state leader of farm atvasors, and F. J. Keilhotz, extension editors

Details of the proposed plan were presented by A. H. Lauterbach, shief of the dairy section of the Asricultural Administration; O. M. Reed. associate agricultural economist of the administration, and A. B. Wystrom, acrier dairy husband are of the U. G. Department of Asrnoultura.

anapolis meeting are these facts: a volume of milt production which increased by two billion pounds from 1930 to 1932; a caw population of more than 26 million, which is larger than it has ever been before: an accrage price index of 69 as compared with 1^{140} in 192^{19} , and a total cash income from its sales which dropped from \$1.847,000,000 in 192^{19} .

The proposed grossam would involve benefit payments totaling not less than 150 million dollars to dairy farmers who reduced their milk sales by between 10 and 20 per cent of their average annual sales for 1932 and 1933. Illinois dairymen would be elimible for a maximum of \$7,155,000. The method of reduction would be left to the individual farmer. Furthermore, it would not be expected to reduce sales below the low winter level, but to cut down about 10 per cent from the high average volume of the 1932-33 base period.

The plan also includes allocation of additional funds for purchasing and distribution milk among underfed city children, for purchasing and distribution healthy cows to needy farmers to produce milk for their own families and for speeding up the eradication of bovine tuberculosis and Pang's disease

Sound methods of cropping, cow feeding and herd management whereby individual dairymen who sign contracts could control their production were outlined at the Irrianapolis session.

The proposed program would be financed by a processing tax starting at a cent a pound of butterfat and gradually advancing to 5 cents a nound as so pply tame under control. There would be a compensatory tay on objects against sufficient to provent shift; to this product as a substitute for butter.



Erocion Danage On Illinoic Soils Shown By Gulliac

Eight hundred gully cheeks of different winds which the will instruct a purpose, the M. J. Department of Interior has already built in McLean county stand on as monuments to the speed and certainty with which soil erosion already has cut into some fertile lands of Illinois, it is pointed out by F. A. Fisher. Illinois regional descent of the pervice.

The FOR gully checks which have been built as part of the demonstration to show farmers how to cope with the menace of sail erosion range all to way from the 4-foot wire checks to the large F-foot, multiple-post checks. Some of these are insposing looking, rock-dom structures.

Building of gully checks is a sort of last-line defense against the inscada of erosion. The checks are not built at the north of the gullies, because in large to stances prosion has out so deeply that it will take too long or be inautoticable to the to fill in the gullies. Instead, the checks are built at the home of the gullies a means of preventing them from esting pack any further into the form. The gullies then are reclaimed by being seeded to be one meant passure groups or clarked to the con-

While the gurly checks are a striking feature of the demonstrational worst that is being done in the McLean county area, they are only a part of what will be done to show framers how to half their land in all on by means of mechanical devices of various kinds, by proper cropping systems and by sound it is management methods. Fisher, who has his offices at the College of Agriculture, University of Illinois and who has the cooperation of the college in his most, already has occurred well under way in the McLean county remonstrational area.

Erosion, seeinst which the demonstration is directed is estimate any in summers or other at any solutionally half the PC, III, II solves of Illinois for I mi, It shere see. For the United States as a whole, the cost of erotion to terrors as a stimated at \$400, III, ICC a year, and it is withing the soil off fields of the Phitodesia at the rate of three billion tors a year, he added.

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Illanois Former May Be Oldern Of Jorn-Hoz Dister

Joseph J. Ford, 192-year-old farmer of Crawford county, to believed to be the oldest creducer in Illinois, if not the Phited States, to sign of in the AAA cornabig adjustment program, eccording to the eptension pervise of the College of Agriculature, Priversity of Illinois.

Inasouch at 115,000 farmers in Illanois have signed communications, econoding to the latest reports, and nore them 1,000,000 medical throught out the mation are respecting in the LAA campaign, Ford's friends claim that is in the can in a million."

Fird twose life acres of land near Flat Rock and recently signed a troop can ract opplication in which he agrees to reduce his lifet corn acreage at limit to per cent and his hog production of per cent, under the terms of the government to the justment program.

He says that he expects to the charact corn crow havested and he invited the next benthday party.

Although Crawford to mor consider in prominent corn and hogh mathematics of anti-consider in prominent corn and hogh mathematics are considerable that more than \$40 farmers have a limit with the normally soldess using in the corn hogh adjustment movement.



Rotation Thanges Tay Occas Damage From Ch ach Bugs

Threatened with the heaviest chinch bug infortation ever recorded in the history of the state, Illinois farmers should consider revising their rotations as a means of partially protecting their 1984 corn crop, warms A. I. I ago, assistant sates of soil experiment fields, College of Agriculture, University of Illinois.

By this is meant the location of legree crops in the rotation so as to isolate the small grain, own and grass fields where the chinch bogs are prone to breed and feed. It has been proved that lemmas are distasteful to this insect peut, and separating the bug's "Leverite" crops with lemmas is suggested as one of several control measures. Furthermore, the addition of one or more legumes will improve the fertility of the land on which they are grown,

"A five-year rotation supplying this fuel purpose," explains long, "may consist of corn, oats, clover, corn and soypeans. In this case, not only is of mer cent of the farm in legumes, but 30 per cent is in each crops. One crop of corn is completely set off perceen two legumes, which in many cases will prevent derious damage from chinch bugs. The fast that the oats field will have a spring seeding of clover may deter rapid multiplication of the insects in this crop, if the clover gets a strong, early start.

"When wheat is grown with a maximum of corn, a rotation of corn, corn soybeans, wheat and clover can be planned. An important feature of this continuation is that the small grain crop, which is always the early breeding ground of the chinch bug, is isolated from the corn crops by a legume on either side. With a good, growthy spring seeding of clover in the wheat, this crop is not susceptible to the bugs.

"Where a four-year rotation of corn, oats, wheat and clover in followed, a protective revision would be to substitute coybeans for the cata. This would carry the isolation advantages of the previously mentioned wheat rotation and, with a good stand of clover in the wheat, would keep /5 her cent of the land in legumes throughout the growing season."

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AAA Dairy Plans Creating Interest In Herd Testing

Anticipating the coming of the government's dairy adjustment program, when definite milk and butterfat production records will be of added value, more and more Illinois farmers are forming dairy herd improvement associations to that the profit-lableness of their cows may be checked every month, says J. G. Cash, dairy extension specialist of the College of Agriculture. University of Illinois.

This rapid growth of interest in dairy testing work is revealed in the fact that within the past two months new associations have been organized in Talle, Lee and Iroquoic counties, while several other associations have added new members. With these new stations, approximately 1,100 Illinois dairymen now belong to 5° associations in which come 20,000 cows are tested regularly.

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Timely Notes for Farm Advisers and others from the Agricultural Cellege: Experiment Station, and Extension Service

Volume TVII

Arril 11, 1934

Number 15

AAA Frogram Might Mean \$158 To An Illinois Dairyman

Penefits of as much as \$156 a year could be counted on by a typical north central Illinois darryman if be signed of under the proposed diffy production adjustment program of the Agricultural Adjustment Administration, according to figures given by the extension service of the College of Agriculture. University of allinois. The figures hold for conditions as they are now and do not take into account the effect of the proposed processing tax upon consumption, it was pointed out.

What is considered more important is the fact that by signing up, the dairyman would have joined with his neighbors in safeguarding the dairy industry against the effect or rainously live. Those which threaten to come about as a result of the excessive patential producing possibilities of the country's fairy herds and the low buying power of the consuming public.

The dairyman in the typical case cited by the college keeps around 14 cows producing 7,300 pounds of milk a jear. He feeds each cow approximately 2,234 poinds of grain a year, and 589 counds of this feed must be bought.

Without signing up he would be producing 108,700 pounds of milk a year. Under the basic-sarphus plan on which this dairyman and others like him now operate. 87,000 pounds of this milk would be sold as basic milk at \$1.50 a hundred pounds, bringing a total of \$1,005. The remaining 21,700 pounds would be sold as surplus at the rate of \$1 a hundred pounds and would bring \$217. The total income from the sale of milk would be \$1,523. The 8 400 rounds of feed which this dairyman must buy costs him \$1.50 a hundred pounds, or a total of \$126. When this is subtracted from his sales receives, it led as him a net return of \$1,396.

His net returns would be \$158 more than this if he signed up to reduce 15 per cont and if there was a two-thirds sign-up of all dairy farmers with a 10 per centreduction in dairy sales for the country at a whole.

By signing up to reduce if per cont, he would get benefit payments of \$1.50 a numberedweight for the 16,300 pounds of milk that he cut off his sales. This rould be a total of \$245. He would still get \$1.5. a hundred pounds or a total of \$1,505 for his 87,000 pounds of basic milk. In addition to would still have 0,400 pounds of surplus milk for which he would get \$1 a hundredweight or a total of \$54. This would give him a total of \$1,604 from sales and benefit payments.

He would make his required 15 per cent reduction in sales by buying and feeding 60 per cent less feed concentrates than he bought and fed before signing up. In other words, his bill for purchased feed would be only \$50. This would leave him a net return of \$1.554, or \$158 more than he was getting before signing up.

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With final reports still to be received from 14 councies the number of corn-hog contracts that have been signed up by Illinois farmers stood at 121,073 on Tuesday, April 10, it was annunced by Prof. J. 6. Spitler, state leader of farm advisers, who is representing the extension service of the College of Agriculture, University of Illinois in the 44A campaigns.

-N.



U. 1. Tests Suggest Pasture Mixtures for AAA Acres

More Illinois land will be seeded to grass during the next two years than ever before in the history of the state, prophesies H. F. Rusk, head of the animal husbandry department of the College of Agriculture, University of Illinois.

This "back-to-grass" movement is spreading throughout the state as a result of the government's corn-hog and wheat adjustment programs in which some 2,000,000 acres of land will be taken out of crosproduction by cooperating filinois farmers.

"A large percentage of this former wheat and corn land," explains Pusk. "will be seeded to permanent or semi-permanent restures for livestock, and many illinois producers are wondering what grass seeds or mixtures of seeds should be used.

"For early livestock carrying capacity of permanent pastures, all records at the University of Illinois were broken by a heavy seeding consisting of 12 3 pounds of bluegrass, 2,5 of red clover, 2.5 pounds of sweet clover, 4.1 pounds of timothy, 1.8 pounds of alsike clover and .4 pounds of white clover. This mixture may be used for seeding contracted acres, without violation of the AAA corn-hog contract, provided it is in addition to the average acrease devoted to pasture in 1973 and 1933 and is not pastured in 1934.

"If it is desired to pasture this seeding lightly this fall, sweet clover must be replaced in the mixture. This can be done by increasing the amount of the other legume seeds, or by substituting 2 to 5 pounds of alfalfa. Furthermore, the mixture must be seeded without a nurse crop if it is to be (astured this fall.

"Several other factors, in addition to a good seed mixture, should be considered in developing a permanent pasture. They include the use of relatively clean land of high fertility; preparation of a good seed bed, heavy seeding of bluegrass and legumes; control of weeds by frequent clipping during the first season; allowing grass to get a good start in spring before cattle are turned on, and grazing heavily but not too long for any one geriod."

-M-

Feeding Covs Yeas: Will Enrich wilk With Vitamin D

Adults may not have to so to the sunny beaches nor children take their daily use of fish oil to acquire their vitamin D in the future, according to J M Brannon, assistant chief of dairy bacteriology at the College of Agriculture, University of Illinois. "Clá Bossy," when red especially-treated yeast as a part of he daily ration, will supply this bone-building vitamin in her milk, it is said. Here-totous the most common methods of securing vitamin in her milk, it is said. Here-totous the most common methods of securing vitamin to for the human system have been to expose the skin to firect sumlight or to ultra-viele, ray machines or by consuming certain fish oils.

"Normal milk contains calcium and phosphorus in the proper ratio for the development of bone tissue in children, but it is low in vitamin D and does not have a large supply of the substance which is converted into vitamin D," explains Brandon "Investigators, however, have found that certain types of yeast are high in the stance from which vitamin D is made, and if these strains of yeast are treated with ultra-violet rays of light, they become excellent sources of vitamin D. Likewiss if yeast so treated is fed to cows their milk at the sed of three reaks will contain sufficient vitamin D to insure the proper development of the bones of a shild."

Production of this special come building mick entails advantoral costs.

Dairymen selling it must secure a license costing a Collar a cow. Moreous also the extra expense of burchasing the treated yeast.

"Importing" Chinch-Bug Corn May Not Be Safest Plan

Illinois farmers, casting about for a variety of seed corn that will be most resistant to chinch bug attack in 1934, will do well to select the variety that is the best adapted, most vigorous growing and highest yielding in their respective areas, rather than import a variety said to be resistant in another part of the state or in another state.

This is the opinion of G. H. Dungan, assistant chief of crop production at the College of Agriculture, University of Illinois, after reviewing experimental evidence and the experience of farmers relative to chinch bug resistant varieties of

"There is evidence that some strains of corn are less favored by chinch bugs than others, "explains Dungas, "but the particular quality which makes them less appetizing to the bugs is not known. It is believed, however, that the most important factor is the superior vigor which enables the plant to produce a good crop of corn in addition to supporting a goodly number of bugs. No plant during its vegetative growth can withstand an attack by an unlimited number of chinch bugs but the ability of a variety to remain green and continue growing until the normal maturity date, in spite of the insects. is a mark of resistance.

"In southern allibus, where varieties have been tested at the college's Alhambra experiment field, Champion White Pearl, Black Hawk, Mohawk and Golden Beauty have proved to be the best adapted to the upland soils, and at the same time the most resistant to chinch bugs. Waddell Utility White Dent supplies a good type of grain for feeding and seems to be resistant to the bugs, although it does not stand up as well under a severe infestation as does Champion White Pearl.

"Experimental evidence is not available covering the most chinch-bugresistant varieties of corn in central and northern Illinois and positive recommendations can not be made. However, farmers in the north-central section of the state last year reported that the corn known as Krug is markedly resistant. In the absence of thorough experimental tests on the resistance of varieties grown in northern and central portions of the state, it is suggested that the best adapted, most vigorous growing and highest-yielding varieties be grown in these sections during years of chinch bug outbreaks.

-M--

Effingham Eggs are Among First To Carry U. S. Seal

The first shipments of eggs from an Illinois egg-buying station, under official government grading, have been inaugurated in Effingham county, with the Farmers! Equity Union there adopting U. S. standards for packing and shipping to the New York market, according to H. H. Alp, poultry extension specialist of the College of Agriculture, University of Illinois.

Through the cooperation of the U. S. Department of Agriculture and the Illinois Department of Agriculture, officers of the union have been able to secure the services of a licensed government grader and permission to use the government seals on various grades of egg packs. The grading is in line with work which the extension service of the agricultural college has been carrying on throughout the state

to raise the quality and the value of the Illinois egg crop.

"During the four years from 1939 to 1932 the cash income of Illinois farmers from eggs has averaged \$20,240,000 annually, but the opportunities to sell those eggs on a graded basis have been all too few," Alm said. "With the proper cooperation of the members and the right kind of management, such a program as that started in Effingham county should no much to raise the quality and price of eggs produced in that area, "

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The second secon \$ 7 - 45 Miles Control years in Nation Considers with March to present and the the section of the se the state of the s CONTRACTOR DESIGNATION OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COL 11 to 12 to $-\omega_{2}(-1)$, $\omega_{1}(-1)$, $\omega_{2}(-1)$ s . ' · 'e the state of the sale of the s with the state of the state of

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILITADIS

Timely Notes for Farm Advisers and others from the Agricultural College; Experiment Station, and Extension Service

Volume XVII

April 18, 1934

Number 16

Record Aifalfa Seeding Torecast On Illinois Farms

A new all-time record for alfalfa growing is ejected to be sat in Illinois this year in spite of the fact that the 1835 that of the personal was a record in itself, according to 5. 0. Hackleman, not served on the realist of the orthogonal of the orthogonal of the orthogonal of the most land on which he refer to the order of all the personal order of all that the factors are the order of ment interms with him that or a smilest place for that an almost a median while at the same time obtains some income from the case in the form of becomes a payments, we pointed that the may be selded in Months or without a mark than he said.

Use of contracted I and for a nalfa and of a union is explained in a new circular, No. 483, New Use Contracted Acres, which we have has just assued for free distriction to interested farmers. Hacklenan is goint author will 0. No. Linsley, some extension specialist.

Record plantings of alfalfa are only one indication of the extent to which Illinous farmers are carrying out the onlyige's long-time seaching to the growing of more legimes in Illinous farms, Hackelman said. This has been advocated for your not only as a means of adjusting production to demand but also of reducing production costs, or conserving land resources at a continuing source or realth and of controlling insects and diseases.

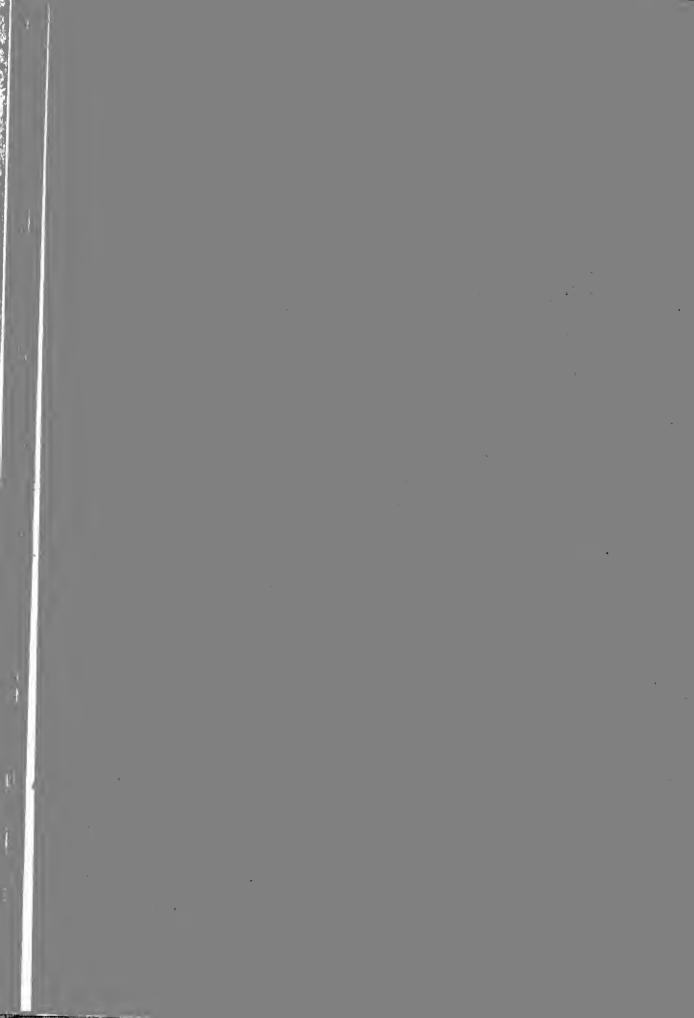
As most of orr allowing season is necded to solution a plantable field, there is no better place to start than on the contracted acres. However, alighed should be seeded only where the soil is known to be sweet enough to produce the crop and where soil tests indicate that there is sufficient available rior hours to make production of the crop relationly infin

If the alrabia is to be seeded which marks crop, oats probably would be used to most parts of the state since this crip is lar less although a to contain high than is birlay. Barley near a cornfield would be a worse hazard to the corn than would pats. Oats used as a purse crop for alighfa should be clipped twice so that he large amount of material will be left on the young alfalfa at any one time and thus endanger the stand.

Alfalfa may also be seeded alone in Ney, after a thirrough preparation of the seed bed, if weeds have been kept under control for several years on the land. Such seeding will likely require two or three clippings during the year. The final clipping should be made about the middle of August.

No hay can be taken from alfalfa seeded on the activitated a res during the The hap tan of purse, be used in 1935 of the contracted across have seen released.

If summer seeding of alfalfa is preserved, the group can be plowed and thoroughly prepared thes spring. The seed bed should be worked at traquent interval thus insurthabile willing of several crops of weeds. Seeding should be cond in letuly or early August a that the crop will be ready for use as may in 1905. Any totracted wheat acreage in handled must be replaced by an equivalent contracted acreage in 1935.



Chinch Bugs Going to Small Grains; Farmers Warned

Chinch bugs, worse then they have been for years, have started flying from their winter quarters to small grain fields, and the cheapest and most effective way for farmers to fight them from now on is through the use of crops that are immune to attack, it is pointed out by the College of Agriculture, University of Illinois in a new circular, "Fighting the Chinch Bug on Illinois Farms."

The bugs are even worse now than they were one year when farmers in 17 southwestern Illinois counties lost practically $6\frac{1}{2}$ million dollars as a result of damage to corn, wheat and oats alone, not counting injury to other crops and secondary losses, the college says.

Especially this year, when farmers are reducing their corn acreages under the adjustment program, control of the bugs may mean the difference between a farmer's raising enough feed for his own needs and for sale or else having to buy practically all of his feed, it is pointed ont.

Six direct and indirect methods of fighting the bugs are outlined in the new circular by W. P. Flint, chief entomologist of the Illinoid Natural History Survey and of the agricultural experiment station; G. H. Dungan, associate chief in crop production at the agricultural college, and J. H. Bigger, assistant encomologist of the natural history survey.

Of all the methods, the cheapest and most effective is the use of chinch-bug proof crops, the circular says. These include such crops as alfalfa, red clover, sweet clover, alsike clover, lespedeza, cowpeas, soybeans, sunflowers, flax, sugar beets, artichakes, potatoes and rape.

Turing the rest of April and throughout May and June, the chinch bugs and their newly hatched young will be found in fields of small grain or tender, succulent grasses. The flight from winter quarters to the small grain fields takes place throughout this period. The real damage threatens to begin about the middle of June and afterward, when the bugs of the first broad migrate on foot from the small grain fields to corn. Once in the corn they soon acquire wings and scatter over the entire field.

Farmers desiring the help of the new circular in fighting chinch bugs on their farms can get copies from their county farm advisers or from the College of Agriculture, University of Illinois at Urbana.

-M-

Export Trend Has Little To Cheer Illinois Farmers

Possibilities of restoring the income of Illinois farmers through a revival of foreign markets are none the brighter on the basis of expert figures which the College of Agriculture, University of Illinois has just received from the bureau of agricultural economics, U. S. Department of Agriculture.

Showing a further decline, the index of the volume of farm products exports from the United States was 80 for February of this year as against 93 for January, 109 for December and 71 for February of last year. The index for February, 1932, was 117. The average of 1909-1914 is taken as 100 in the index figures,

The decline recorded in the figures brings home the importance of the state-wide agricultural adjustment program which the college started in 1928 under the direction of Dean Herbert W. Mumford and has been carrying on ever since, it was pointed out. More recently the loss of export markets and its attendant problems have been attacked in the AAA activities now being sponsored by the U. S. Department of Agriculture.



Proper Rotation Of Crops Will Aid Chinch-Bug Fight

Proper rotation of the \$182,000,000 worth of crops that they grow annually is one of a half dozen hopes for Illinois farmers, now that chinch bugs are on the move in what threatens to be the worst infestation of these destructive pests that the state has had for years, it is pointed out by the College of Agriculture, University of Illinois and Illinois Natural History Survey.

Crop rotation is a safeguard because a good way to hold the insect in check is to make its food scarce somewhere along the line, it was explained. Bugs of the first brood, which mature in the small grain during the late spring, depend for their food mainly on wheat, oats, barley and type. The second brood, which matures in the corn during the summer, feeds almost exclusively on corn,

"This means that wheat-growing areas should cut down on their acreages of corn, substituting if possible some corn on which the chinch hig will not feed, so as to reduce damage from the first proof ungs that will come out of the wheat. Heavy corn-producing areas should reduce the sorreage of small grains so that the first brood will be starved out, thereby reducing the size of the second brood.

"A rotation of corn, soybeans, wheat and clover will suffer as little loss as any rotation that contains both wheat and corn.

"In an area where wheat is the main money crop, a rotation of 35 per cent wheat, 25 per cent segments or compens. 35 per cent wheat with same cate or rye and 35 per cent red or sweet closer will be satisfactory because it contains no crop on which the second broad of church lags can feel.

"Where corn is the main money error, a rotation of 40 per cent corn, 20 per cent soybeans, 20 per cent wheat or ones and 20 per cent red clover, sweet clover or alfalfa may be used.

"The essential point in arranging a rotation to prevent chinch bug injury is to grow as large an acreage as possible of the copys on which the insect occurs to feed. Where both small grains and corn are grown on the same or on odjuncting farms, the fields of these two crops should preferable not adjoin."

Crop rotation somethods of fagnting the chinch bug are explained in a new circular, No. 419, which county farm advisers and the extension service of the College of Agriculture, University of Illinois have available for interested farmers.

.13.

Times To Harvest Asuaragus Chown Ey U. Of Y. Tests

Asparagus, which ranks as one of the leading truck crops of illinois with a total value of more than half a million dollars in 1930, should not be cut severely until the second year after the plantation is set, and in some cases not until the third year, according to a seven-year experiment conducted by the College of Agriculture, University of Illinois. The results are reported by F. Levis, in a new bulletin, "Asparagus Yields as Affected by Severity of Cutting."

-M--

Changing Rose And Carnation Soils Is Needless Work

Time and labor spent in changing greenhouse soil each year for the production of carnations and roses is neither necessary nor economical, if the did soil can be sterilized and kept in a high state of fertility, according to experiments conducted by F. F. Weinard, and S. W. Decker, of the College of Agriculture. Intersity of Illinois. Their results are reported in a new bulletin, "Experiments in the dise of Old Soil in Crowing Carnations and Roses."

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COLLEGE OF AGRICULTURE UNIVERSITY OF TURNOTS

Timely Notes for Farm Advisers and others have the Pgh or fural College,

Experiment Su fon, and Expensed Service

Volume XVII

A ri . . , 1 54

Number 17

Proposed AMA Doing Desert Is Dropped For Present

A limited encaper, of discount pattle enadication and makes of dairy products financed by funds made available by congress, counted with the continual use of talk many time percenants, if it robably be the extent of any dairy progress which is fastered to the Asrims turn! 'discount Administration.

For the resert of least no benefit anyment duity production control program will be undertaken.

This legisian a AMA profession in Washington was announced in a telegram received by Dean Harbert W. Tumford, of the Sollege of Apriculture, University of Illinois, from S. W. Warburgan, director of the extension pervise in the U.S. Department of Apriculture.

The decision followed a study of reserve from the A/A regional dairy conferences and is in accord with the sized noting of the administration not to attempt adjustment are area without the expressed councit of a substantial majority of the producers construct.

Although aband organization time being the rich of a benefit payment program, the MA will continue its stop of dainy enables and will be presented to initiate a transfer which may seek a whole is agreed on such a transm. The telegram to Dean Vandord saits

With the fermiliate future of the doing organization, representatives of every around concerns. Ith the best cattle industry met in Chicago on Thursday-April 6, to on lype their difficulties and to a collect hight be fone under the Agricultural Adjo teent Act for the benefit of beef producers.

1. of 1. Students Take Sweepstakes In Flower Thow

A record of having won the sweepstoken trophy two years in succession in the collegate exhibits classes of the National Florer and Gorden Chow is now held by florialture students of the College of Agriculture, deliversity of Ellinois following the resurranhow in Rochester, N. Y.

In this ion of such exhibits is part of the training which the students are receiving for places in the floricultural industry, which in Illinois is pro-incing products having an annual value of approximately seven million dollars, according to the last census.

Entries made by the Illinois students, competing with those from Cornell, Turdue, Michigan State Sollege, Rutgers and Penn State, won econ first and eight second prizes, or more than any other school represented in the show. Furdue was second in total number of prizes and Cornell, third.

Seventeen of the . 'swards were won by the Illinois students at the St. Louis, Mo., they last year, when they lack the sweet-stakes prize.

More than 16° pots of floral plants and vases of cut flowers were entered this year from Illinois, all of which had been grown by students as part of their class and leborators work bearing last Jackenber.



Illinois Sign- in form-Mage Mearing ! . Medt

With the last of the reports coming in, indications now are that the total agnorph of Illinois contracts in the government's corn-hog production adjustment compaign may reach 1.3,1%, it is announced by Dean Herbert W. Mumford, of the College of Agriculture, University of Illinois and chairman of the etate advisory cornittee.

This does not represent the total number of farms that are under contract, because in some cases two or now farms are covered by one signature, it was explained. Farmers lighing up have agreed to reduce their corn production - per cont and their mog farmewings and marketings of per cent in 1 th.

How soon the finition dollars or the reabouts in benefit raymen's will start coming to farmers who are reducing will in and men how soon the contracts are submitted to Wachington. Farmers, themselves, members of county allotment committees and other workers in the commaign are now putting the finishing corrections and paterstions on the contracts, presentory to stading that to Washington.

The first agreements to reach the Washington AAA offices for approval and issuance of benefit payr at come from Merica nounty, In. It is expected that the teak of agreements will come during May. Machinery on personnel for approving the agreements and issuing the benefit payment checks are being arguments. The sheeks are expected to be written within about two weeks after the agreements start through the contract records section for approval and payment. The maximum daily capacity is about 45,000 checks a day.

In Illinois, the heaviest reductions will be and and the largest benefits gollected in 10 counties with 1, 0 or nor contracts signed up. Heading the list is Volean county with 1,001 contracts, and then follows frequeis with 1,00, Livingston ,304, Labelle 4, 4, Theoremse 4,141, Vermilian ,64, Bureau 1,00, Chelty 4,45, Henry 2,45, Fulton ,25, Thoras,167, Masonpin 4,161, Thits.ide 1,164, angenor 4,450 and lee ,74.

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Heavy Rainfall At Right Tire Would Cheer Chinch Lage

Only in the case of frequent, heavy rains halfer the latter part of May and fune can the weather be counted upon to hid Illinois factor, in their battle against threatens to be one of the worst invacious of chunch bugs in pears, warms W. P. Clint, chief entomologist of the Illinois Natural History Survey and entomologist of the College of Agriculture, University of Illinois.

Unfortunately, the chances are three to one that May and June will be comaratively dry manths, he said. He suggests, therefore, that farmers be propered to se barriers and trade when chinch-bug migration from small grain to corn fields befins in June. Flanting the acct resistant varieties of cross and seeding legimes in as many fields as the rotation system will permit are other safeguards that can be deed.

Heavy rains in the early spring may have little or no offect on the bugs, but frequent rains during the last half of May and June will reduce infectations. Ven in the worst chinch bug years, such rains will keer down the insects to the joint where no perious damage will occur.

"The rain beats the young bugs down into the ground and 'muda! then in cohey die. Also demphase and high humidity are fiverable to the opened of the white junguour license which attacks the insects.

"Likewise, if a period of very wet weather occurs in Assust, tarting bout the first and continuing throughout the menth, the second trood of chinch bugs ill be greatly reduced. "Usually this means no demands the following year."



Rect Not To Esice Hogs At All If Postures Not Clear

If a former can not got his years rigs out or alcon pacture and precise of the remitary measures, he will be better off by no resign one has , in the opinion of the division of animal councies, at the dellege of Agriculture, University of II— dinois, when referring to the alone relationship between health and errors in wine projection.

"Nearo" and ritis, are much, here are a round worme, thern-headed worme, which come and atomich words, all of which are sill thebarne diseases and rimesites, are some of the major and a district, and thritty and untradictable rise, it is pointed out. When rigs are raised in the case lot year after year the ground broader saturated with the disease some and case of the promitter racked out in the canure. The young right the or either directly only estimathes which have consumed the aggs, and in eather time or infacts and in set of boson unthristy and a rhow dise.

"Them soil is also necessary in the prevention of Grenia, for from the soil the gies obtain certain elements meeded for black building," explains Dr. Thom. "If the cies can not be taken to the clear sail, then the sail should be brought to them."

If the right of the correct is breader between in clean, now posture, they should be haused 'not divers to one choice or here have much for at least a year. Freferably this field that this one that a core of white the class to to too by hope. It stures, the field should be sell as in that the ring rate or get tack onto the barryard of former her into their one tray recome in ested and lose the benefit of having been towen to now recome.

Experience has above that a few man, it are hower some on the containated late or partures until four contain of a few usealor through and can be madeated at an earlier age with a lower feel of the and of a higher print.

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Factors Indicate Snight r Sutlant For Seultry Faisers

Four important factors andicate that Illinois must symmet may find themselves in a core favorable position financially during the coming months than they were at the came time last year, says H. H. Alr, poultry expension specialist of the College of Agriculture, University of Illinois.

Egg prices have had the habit of going into the "dollfrume" fluring the late spring and early summer during the last two years, explains Alp. "Whether this year they will reach the law of 1] of remains to be seen, but there are some indications that they will not.

"Storage haldings of chell eggs, generally considered to have a distinct bearing on the fresh egg market, contain a note of improvement. In March of of this year there were in storage in .5 cities a total of 47%, on cases of eggs as compared with 50%, on the same date in 197%. This is a lecrease of of mercent and the movement of eggs into storage is reported to be slower than the five-year average.

"Last fall there were many locks of pullets bouses that were below normal in development and vigor. Consequently production has been unsteady and this has resulted in many here being marketed. Thus there is some overtion as to whether the spring flush of production will reach its usual values of past years.

"To date the prevailing enginices have an ouraged rather free colling which has resulted in a fairly seed consumer demand being Satablished. Frencially see prices should reflect any general increase in factory sugges, provided there is not now ratid on increase in prices of other things the wage earners that how."

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Timely Notes for Farm Advisers and others from the Agricultural College,
Experiment Station, and Extension Service
May 2, 1934

Volume XVII

Number 18

Million Illinois Cattle Figure In Beef Adjustments

More than a million cattle marketed annually by Illinois farmers would be affected by whatever plans the proposed committee of 25 feeders and breeders works out for a national beef cattle adjustment program, according to the College of Agriculture, University of Illinois.

That such a committee be appointed by the Agricultural Adjustment Administration to investigate the possibilities of a beef adjustment program and make tentative plans to be submitted to farmers was recommended in action taken by representatives of the beef industry who attended the recent AAA meeting in Chicago. Approximately 700 cattlemen from 24 states attended the meeting, with Illinois being the most heavily represented.

The key to the beef cattle problem, as it is seen by AAA officials at Washington and as it was presented at the Chicago meeting, is the elimination of from six million to seven million cows and heifers on farms. As an initial effort, two million head of cows, in addition to usual marketings, might be removed in 1934 through eradication of diseased animals and through relief purchases. Contracts with individual producers might be required to assure that any removal program adopted would not be offset by further increases in breeding and feeding.

Beef cattle prices not only followed the decline in other farm prices during the depression, but continued to drop until in 1933 they were \$2.05 a hundredweight less than the parity price. In March of this year they were \$2.46 a hundredweight below parity.

"There may be a temporary improvement in beef cattle prices in 1934 partly because of smaller receipts in well finished, corn fed cattle, caused by the shortage in the 1933 corn crop, and partly because of the continued pick-up in consumer buying power," the AAA officials pointed out at the Chicago meeting. "However, maximum returns to cattlemen will depend upon sound and prompt adjustments in cattle numbers.

"From 1928 to 1934 numbers of all cattle--beef and dairy--in the United States increased from about 57,000,000 head to about 67,000,000 head. Milk cow numbers increased by about 22 per cent and beef cows by about the same percentage.

"Annual cattle slaughter may be expected to rise from about 21,000,000 head a year to about 24,000,000 head in the next several years, unless prompt action is taken, although the number of finished cattle coming to the market has not yet begun to reflect fully the increase in the number of breeding stock."

"During each of the past six years cattlemen have produced from 1,000,000 to 1,500,000 more cattle than they have marketed. That is, they have been adding to their herds faster than they have been selling off. Thus a new cattle production cycle has been under way for six years, and we still are definitely on the upward trend in numbers of cattle.



Inferior Seed To Be Avoided In Increasing Soybeans

In order to plant an additional 114,000 acres of soybeans this year, Illinois formers should not yield to the temptation of using cracked, old, or otherwise inferior seed, if they hope to secure satisfactory stands, warns C. A. Van Doren, waistant in crop production at the College of Agriculture, University of Illinois.

Last year Illinois farmers planted and harvested the smallest crop since 1929, and with an anticipated increase of 20 per cent in acreage this year, some growers may be tempted to be less critical of the quality of seed they plant, it is said.

Reports of planting intentions indicate that Illinois farmers will seed bout 682,000 acres this spring as compared with 568,000 acres last year and 617,000 cres in 1932. The 1931 crop of 771,000 acres was the largest in the history of the state. Normally Illinois growers harvest more than half the soybeans produced in the United States.

Experiments at the U.I. College of Agriculture show that cracked soybean seed will produce only 55.4 per cent as heavy a stand as sound seed, although the difference in ultimate seed yields is not as pronounced.

The age of the seed should also be considered, if maximum production is to be attained, explains Var Loren. New, sound seed is always preferable, since one-year-old seed usually falls are can whort in stand as compared with new seed that has been stored under average rarm anditions. In some cases, however, the one-year-old red may produce as large or a larger yield than the new seed, all other factors being comparable. It is seldom advisable to plant soybeans that are two years old or older, as both the stand and yield decline rapidly from the second year on.

"Good quality soybeans consist of seed that was well matured and in a dry condition when harvested, and has been stored under favorable conditions," points out Van Doran. "Seed harvested from frost-killed plants or from plants cut before completely matured, are likely to be inferior. Furthermore, changes in atmospheric hamidity make the beans deteriorate in storage. If a farmer must purchase his seed, he should buy new, sound-appearing beans that will give a germination test of at least 90 per cent strong sprouts."

-M-

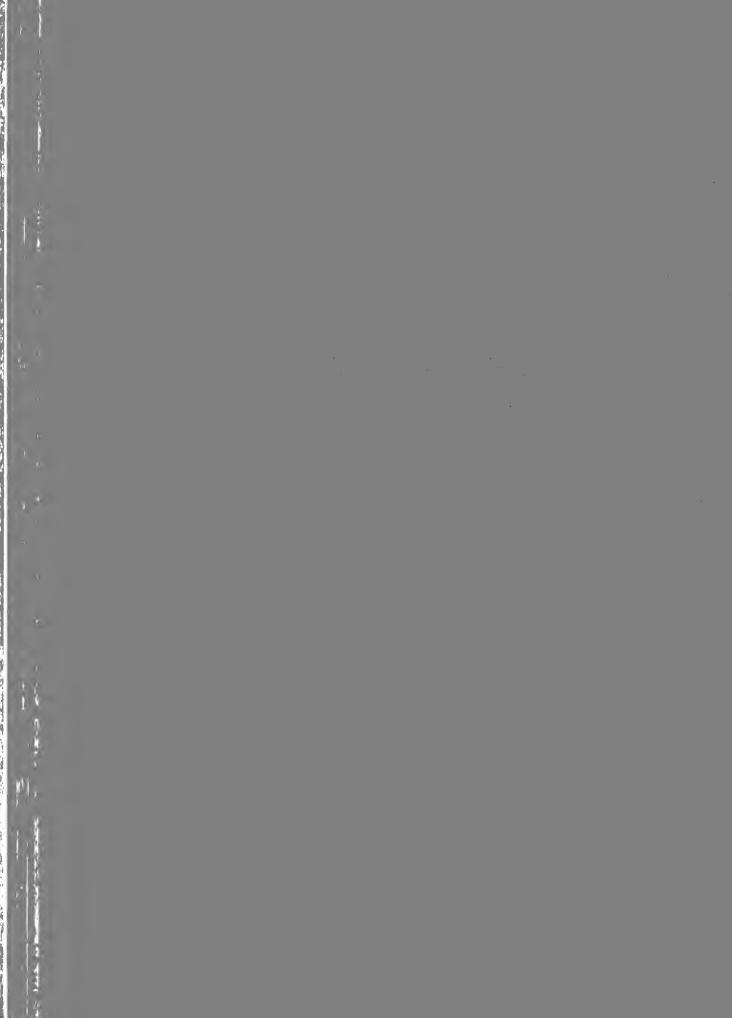
Nuts Are Suggested As Non-Supplus Crop For Illinois

High quality nuts constitute one of the few crops in which there is not a urplus, and many Illinois farmers could well afford to devote a small acreage to their production, declares R. S. Marsh, horticultural extension specialist of the College of Agriculture, University of Illinois. To assist farmers in doing this he is holding a series of nut propagation demonstrations in 14 Illinois counties within the next week or two.

At the nut propagation demonstrations, Marsh and L. E. Sawyer, extension forester of the Illinois Natural History Survey and of the U.I. College of Agricultire, will explain the latest method of top working walnut, pecan and hickory trees. Faimers attending will be given an opportunity to make a graft so that they will have a model to take home with them, together with complete printed instructions.

Local arrangements for the demonstrations are being made through the county farm advisers, with tentative dates scheduled as follows:

Union and Jackson counties, May 8; Pulaski-Alexander and Saline counties, May 3; Johnson and White counties, May 10; Williamson and Edwards counties, May 11; Schooler county, May 14; Stark county, May 15; Bureau county, May 16; and Jo Daviess county, Salin



Fruit Mart Lose In Il amous Than in Bastern States

Illinois peach growers fared better than those of the pastern states insofant a damage to orchards to a result of sub-sero weather during the past winter is conspried, it is reported by Dr. M. J. Dorsey, chief in comology at the College of Agriculture, University of Illinois.

Although there was revere injury to the peach buds in this state, no demage was done to the trees. In fact in some of the more favored locations, sufficient buds arrived to produce small crops of varying percentages. In the east, however, all fruit buds were killed by the freezing temperatures, and a great many trees were killed

r demarch boddy, it is said.

The Illinois peach crop has been estimated at shout 801 carrieds, as concerned with approximately 8,000 cars in the bumper acasen of 1981. As was enticipated the apple crop is likely to be light in this state, owing to the defoliation and unavorable weather during fruit bud formation last year. End respheries suffered considerably from winter kill, but the course and plum buds are believed to have survived comparatively well. Unfortunately in some parts of the state cold nights during the net week or ten days of April did considerable damage to certain fruit blossows.

Differences in bud hardiness were of uttrated atrikingly this winter in Illinoi, Dorsey points out. Such peach variet as as Greensboro, South moven, Carmen and bell came through the sinter in a much better is see than the rose nopular Elbert and J. H. Hale. This would indicate that for home plantings it size. Les dvisable do include more of the hardier varieties. These would give more aromance of a crop to one seasons when the other varieties have been winter damaged.

In orchards where the live buds are too few to be worth considering, forsey suggests that grovers prime the trees back to the two or even three-year-old wood. In cases on re there are sufficient live buds to give a crop, pruning should be detayed until the set in evident, after which the non-besting from her can be thinked out.

Where the full curvival is still lighter, it is advisable to less all possible tearing word in the trees so that full advantage can be taken or the live buds. Here, too, as explication of some form of quickly available nitrogen smalld be made in order to increase the set. This is particularly worthwhile, if applications were not taken last year or if the growth conditions are at a low abb.

- 15-

Too Work Hulled O.ts Will Handicap Fattening Pigs

In their eff rts to grow and latten fall pigs as cheaply so possible lillnois farmers it stund in their practice of not including too large a proportion of
culled onto in the rations, it is revealed in a two-year feeding experiment just completed at the collage of Agriculture, University of Illinois. Hogs feed in a dry hat
on hulled onto as the only grain developed severe stiffness, became authority and in
one case died.

The addition of hulled out, however, did improve the so-calded standard ration of corn and protein supplement, according to W. E. Carrell and W. F. Carregus, the conjucted the tests. The most substantony ration was found to be one in which the pigs consumed two parts cracked corn, one part bulled outs, plus .76 points of crotein supplement and .72 pounds of minerals daily. These pigs consumed 444 pounds of the ration for each 100 pounds of gain and increased in weight at the rate of 1.45 (ounds daily. The protein supplement was made up of 2 parts tankage, a part sorbest bil mean and 1 part alfalfa meal, while the mineral mixture consisted of equal parts of limestone, consider and sait.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for harm Advisers and others from the Agricultural College.

Experiment Station, and Extension Services.

Volume XVII

. 9, 1934

Parker 19

2,000,000 Acres Of the Lond In Not Floating Possie

Leaving opproving tely to mullion or so but of cour raise production, . Illinois formers all do under terms of the governmental various AAA progress, is not going to upont wound forming methods or bring about any relical changes in cropping systems, judging from reports coming to the form was gereat division of the College of Agriculture, University of Illinoise. Quite the contropy, the contracted had it going to be asked broat each simply for legular. This is already in line with the long-controled to clin or all college and will pave the any for soil concernation, the reflection of prediction and marketin is use, better control of insects and diseases and other benefits.

How for Itlinoit a number of up how pushing the acceptant in the post 21 years is shown by the fact that during the five-year period of 1229-1933 the overage amount accepts of such legities a chieff, sweet clover, adjusting and company was 1,413,000 some more than it can in the five-pear period of 101-1914. Furthermore the event of numbers, and have age of much sumplus one on corn and that, together with outs, are and because of such sumplus one. I was in Illinois coming the 1920-1970 period than it and during the outs-tild period.

Extensive use which for any in one section or the standard will make of legumes on their contracted some again indicated in figures, reported by J. P. Canain is an, field man for the same bure made and many sent service, which the V. I. Pollege of Agriculture openates in Grandy, J.S. II., If roball and Putner countree. The figures cover 8, forms on which 116 pieces of land have been contracted to the government.

Alfalfa or sweet clover will be used on 63 of the tracts; red, mannoth or sloike clover on 34 of them; timothy or orch rd great or , of them, and coybe and for plowing under on 4 of them. Thirty-en of the tracts will be followed to kill weeds and on five others nothing will be plowed and the reeds clipsed. Owners of two pieces of the land are undecided how they will handle the contracted scres.

Forty-two farmers are leveling old clover, alfalfa or grass mixtures stand over as their confircted acres, thereby saving I dor and expense this year. However, most farmers are not proposed to so this, for out of the 118 process of contracted land, 64 were an corn last year.

In reading such corn hand down is contracted acres, about 30 per cent of the farmers thandonal the usual practice of using a nurse prop, thereby eliminating a place for the chinch bugs to feed and also saving expense.

While the percentage of contracted hand growing legames on these farms in exceedingly high--perhaps much higher than on farms not in the farm management service reit would probably be still higher were it not for the large amount of your soil, Cunningham reported. This is being partly corrected on ten of the farms where some of the agricultural adjustment benefit money as being used to buy limertone. The four farmers who plan to sow soyreans on their contracted agree are doing so because of sour soil. Others have sown marmoth clover, which stands a medium acid soil.



Wheat Frompect Below Average; Carryover Also Lower

Although it is anticipeted that the 1934 wheat crop in Illinois may be larger than the unusually small crop of last year, it is likely to be some \$\footnote{\text{to}} \cdots \text{bushels} less than the five-year average production of the state, according to available reports reviewed by R. C. Ross, assistant chief of farm management at the College of Agriculture, University of Illinois.

The total 1934 wheat yield in Illinois has been estimated at 39,601,000 bushels, as compared with 26,59%,000 bushels in 1013 and 31,411,400 bushels as the everage during the time years of 1927-1931. The increased wheat some age planted last fall was probably the result of the large mount of corn land that remained idle last summer. Rather than lose the time and labor they had spent in preparing the ground for corn, formers planted the follow acres to wheat, in the opinion of Ross.

Wheat stocks on Milinois farms of Apr 1 1 amounted to 7,839,800 busnels, or the smallest corryover since 1951. I set year at this time wheat stored on Illinois farms totalled 5,745,800 bushels.

Current reports on the world wheat prospects indicate the correspond of wheat on July 1 in the true princip is exporting countries will be at least 10.,000, as bushels less then on July 1 of 1 at wear.

Like that of Illinois, the North provious whent crop is expected to be conciderably larger this year than last, because of the exception Hy bud growing conditions of last year, but the European crop by as considerably smaller. Dry weather in the lower Danube basin has during a later-cown grain, and early-sown fields may have yields reduced even though the moisture has been additional for a formulable early development of the crop.

The condition of winter wheit in the remainder of Europe is reported as being generally good except in Italy and Sprin. However, the early-remaindantion of the crop in the core mund parts of Europe has not proved to be a good indication of subsequent yield. It is not likely that the high everage meta of last vear will be repeated in 1934.

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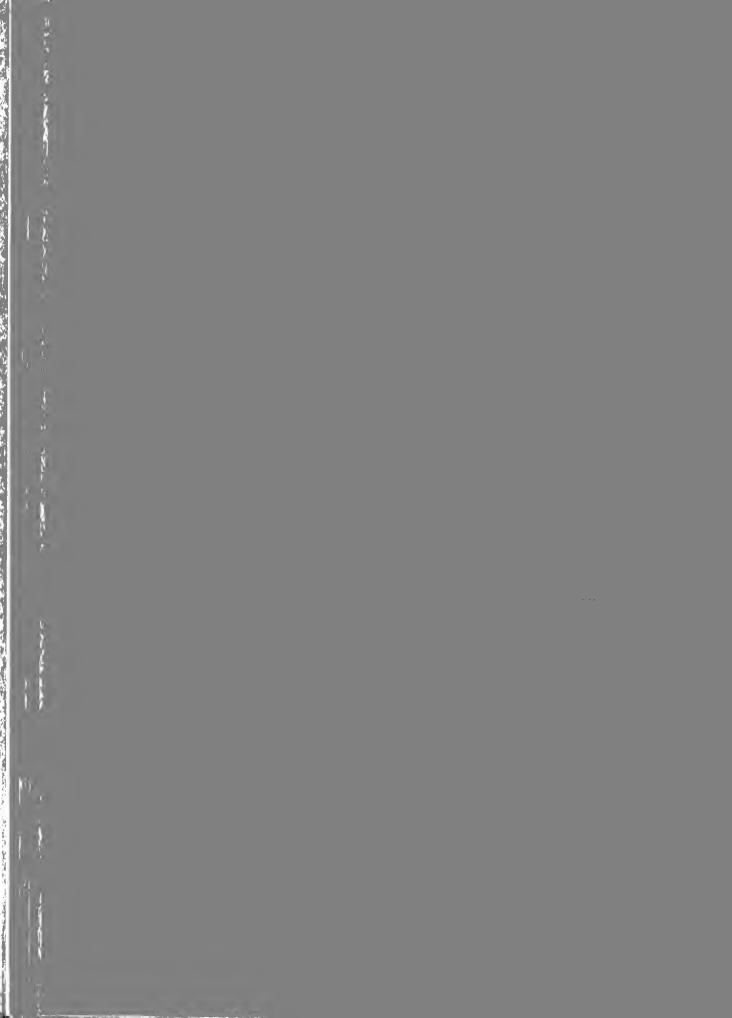
Incressed Soybean Acreage Will Yield Many Benefits

Illimits farmers, who this year plan to plant peroximately \$62.00 cores of soybears, will be in a position to responding advantages from the corp, particularly in the case of producers who are cooperating in the government's what and cornahog adjustment programs, in the opinion of E. E. DeTurk, chief of soil technology at the College of Agriculture, University of Illinois. At least six characteristics of the crop can be cited as advantages.

When allowed under, poybeens add nitrogen to the spil in much the one sames as other legals. Then too, this crop has the ability to absorb mineral plant food electics at an are ordinarily not readily available, and then the maybe have turned union, the minerals become early available for the following props.

Experiments have shown that the tops of copies no, when ploved down help the development of pacteria, thereby making the soil more favorable for fature croperowth. Furthermore, soybeans need less line or linestone than the more commonly grown clovers. Although not the most ideal grown for soil erosion prevention, powherms give quick results in producing a protective cover, and when broadcast or drilled around a slope will do much in holding the soil. Finally, coyleans are distanteful to chinch ouge, and if the contracted some are located between the small grain and corn fields, this legume tends to discourage the ough from algoring from the small grain to the corn field where they do the greatest decay.

Although someons fit in idealing as a green menure emp for contracted acres, then are not used a much in general form operations being less practical for soil inconvenent than certain other lands.



Cutworms Three-could be at Spring Is the act Cold

If Illimore should have cold, but heather soon often can cold up, finders any expect mathem submore statistical as a label by map and to con rot the indexion with pareoned bait, says J. H. Bluger, account at entocologist of the Illimate Matural Estatory Suives in a report to the College of Agriculture, Whitehalt, of Illinate

after the cotworms are become established on a facta, the ask of poisoned brombait is the only control school about blee points out Bigger. This should be used as soon as signs of outcome feet a sagress.

Insugh poisoned wit for about tires some can be a describe pounds of low-grade bran, I pound of Faris green or soldier associate or white analysis, I quanta of molecular and I gallone of settles. For a ager on a sproportion tally when a wante will be required.

The meter, colorses in reduce expension we wind to give and then the solution is stirred into the in a so that every particle of the branch cointened by it. But enough of the relution should be und so that the introduction together when squeeze tightly in the hand but will a such men openion. A lightle expenience will establish this point.

If P ris greet to the interest of coding two mitters white the embedie, it should be mixed dry with the broad, the outer-modes and oblition council over this mixture until it is coefficiently wat.

The bait should be a read life in the riternoon so to this mall resain moint to make Broadcasting of moud bouiss at their to a clear at the intensity of the last and the same of the last and the same most one in the control of the same and the same most one.

In the circlet block cultioner, efter round of indexed, wet slocens one pretituarly in net mess, one applied file of the poinon-d best will be the should. The gested applied tooks see in that

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Organistic T ew Is Held By Grovers Of Strawberries

Illiant strawberry growers, whose crops are an end note than a helf willlion sollars among the in repent parts, are optimistic at maneral tecourse of the arelier
crop which is in recurrect sed more money in circulation, mays E. S. Larsh, extension
specific in lasticulture at the callege of arriculture, that many of Illinois.
Whether or not they got the remarks returns will depend protty upon her carefully they
grade their corrier and the estant to which they are chipping point and office vice, he said.

"What can be done through armsing and phipping point inspection to get setter prices for strawborries is shown in the results obtained but your by a new grozens' cooperative ong sized in Edger county. Its neads to over real higher set return then the members of we other organization either in Illinois or Indians. Principles of wrading, the file and carboting were taught to them in five aeronatr tions held by the extension service of the U. I. College of Agric lives with the cooperation of the St te Division of Standardization and Markets.

"Batter marketing methods also poil a presium for growers in Union county, where pan gradies was introduced by the T. I. agreed terms extension service. As a result of several demonstrations held by the form advisor, the everage price received throughout the ceason was \$1 more a crate where pan grading can used then where no grading was done. The extra cost of pan grading, including the value of the call berries thrown out and the expense of extra labor, anounted to 25 cents a crute. This, however, left an extra net profit of 75 cents for the growers who employed the name grading method."



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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLIMOIS

Timely Notes for Farm Advisors and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVI

May 15, 1774

Number

Home Accounts Chow Increased Fuying By Form Polks

That Illinois form familia, the contributing their share to improved busing as and industrial conditions is revealed in a surpers of 715 form and small town home account records made by Mrs. Ruth C. Freeman, home economics extension specialist of the College of Agriculture, University of Illinois.

Comparing the 167 farm finally records attudied in 1873-74 with 199 dummarized in 1973-73, it was found that the total average money value of living and
savings was 55 per cent higher during the east 1, months Chan in th. 198-35 regiod.
The increase occurred in each expenditures, probably resulting free increased incomes
of the farmers in one form or another.

The total realized income of the 42 cmall town families, however, was 11 derived towar in 1877-84 than during the provious 1, months.

Tash house exceptatures by the ferm families, including each repairs, fire insurance and improvements on houses, meanly doubled in 1977-40 over 1954-33, prints out Mrs. Freeman. They rough defrom nothing to \$78%, or an everage of \$18 to the family.

Forty-four per cent of the 16% form families purchased raint and varnish for decorating interior walls and floors in the cash year 20% per cent perced one or more rooms, and three form houses were pointed.

Expenditures for furnishings and equipment in 1937-74 were also nearly double that spent in 197-33. Twenty large pieces of electrical equipment were bought in the past year, as well as 13 mattreages, 24 rags and 3 complete cuites of furniture. Small kitchen equipment, curtains and draw-ries, dishes, toweling, cheets and pillow cases, and oil of the were among the most frequent purchases shown in the records

Clothing empenditures is 133-4 everaged \$101 as compared to \$71 in 1932-73, with from one-fifth to one-third of each person's clothing money going for those and hose.

Automobile expenditures of the 167 farm families also increased in 1937-44, although the difference was not large. Eight families traded in their old cars for new ones, and eight others traded for late model used cars. The 150 families in 1932-33 bought only three new cars.

Caventy for cent of the farm families attended the World's Fair in Clipace last summer, considering the trip both educational and recreational, and entering the expenses accordingly in their books.

Even with increased expenses, the farm families were able to save an average of \$148 each, the major portion of which was in the form of life incurance premiums.

Further heartening signs are seen by home economics extension torbers of the college in the recent almost record growth of county home bureaus and the livelier interest which farm women are showing in new ideas on home making and home management. A total of 1,469 new members have enrolled in Illinois home bureaus during the cast five months, making the total membership now stand at 9,341. Twenty-six community home bureau units have been organized in the state since December 1, 133.



Cow Culling Sets Stage For State Efficiency Record

Elimination of thousands of los producing and unprofitable cows by members of Illinois' 55 dairy hard improvement associations made it possible for their hards to set a new state record in enficiency of production during the past year, accordang to a report by Prof. C. S. Bhode, chief of dairy husbandry at the follege of Agriculture, University of Illinois.

The PC.043 cows retained by the hord improvement association members averaged 321 pounds of butterfat each during the past year. This is the highest of—ficiency record ever attained by association members in Illinois and in P41 pounds better than the 180-pound butterfat average of all cows in the state. In 1932 the average butterfat production for cows at heiry hord improvement associations in this state was 317.6 pounds as compared with 41.1 bounds in 1937 and 420, 1 bounds in 1947.

Members of herd improvement connectation, have realized more than ever during the past three years that the practice of resping slewer and better cown is a sound nethod of adjusting their individual problems, as well as the problems of the industry as a whole, it was explained. Consequently during these three vesus, many Illinois association dairymen have practiced rigid culling, dismosing of opposing tally 10,600 low-producing cows.

How afficiency of production actually affects the product is shown by the estimated return of \$16.72 above feed cost for the average cow in this state, while the average cow in dairy hard improvement work returned \$64.31, or as its rease of more than 14, per cent.

In point of individual production, a grade Holstoin vow cound by two house heart Home in Kane county led all others of the state with a second of the pounds of milk containing 1,030.3 pounds of butterfat. The highest-producing with an average of 57 pounds of fat and 13,671 pounds of milk.

سي رسو

Chinese Cabbage May End State's Sauerkraut Proble.

A new delicacy may be served to the 45,87) inmates in filingist of charitable and profit institutions and a big problem in the dist and feeding of cross beopte may be solved if experiments started by Lee A. Jomens, vegetable gradients generated as the following for tension specialist of the follower agriculture, University of Filinois grove as successful as they promise to be.

The new delicacy is sawerkraut under from Chinese cabbage restead of the common cabbage, saich commetimes fails under fall weather conditions in Illinois.

A. L. Bowen, director of the Illinois State Department of Public Welfare, and other state off chalc already have sampled the new kind of sawerkraut. Some of slow from nowneed it appears to common cabbage causakraut, some said they could tell no directore and others did not like it as well. It has been more or less common opinion that sawerkraut could not be made from Chinese cabbage, or "celesy carbage," as if is sometimes incorrectly called.

Sauerkrout is a mainstev in the diets that are served at the sectors 7 cheritable and menal institutions. Unfortunately, however, the fact are of calcade which must be relied upon for the kraut is frequently a facture in twice states. Chinese cabbage, being strictly a fact crop and much easier to grow that course of the bage, would overcome the danger of a crop facture, but the question was whather in not kraut could be made from it. Somero tried it out on a small scale last fact and successfully produced a satisfactory kraut. As a result of the successful initially experiments, each of the state institutions of the sound to all a brick of Chinese cabbage krout this fall.



Good Morses fore se to line Is Generally for lived

Arriculture, University of 11 ir in.

The number of horses, unless and colds on forms in this state of January 1 of this year totalled magazinately 44, for a compart with Make, to on the same date in the personal incompart of 150 for January 1 conths. The consistion of horses, where a colds in Illinois in the meet a long, in light of light of the continuity of the continu

Former: have cold down to their minus meeds and will weldon price to horse for sale, days rewford, following a total ecough control Illinois on which time he made a corvey of the available constr-

"There are a few teams of the composition of solve to be but and a few bit teams of rather plain order," he couldness "Or course, after the areas upon a upon will be some horses upich can be seened.

"Quite a few diameter are in med, of none houses and one in the count for toward of names. On large for ere! idea on an abangs i relicably in a spect to the age of horses. They now indicate an heying proceedings, and there are indications of return of great regride in horses and latter are given than.

"Stallion one reads and provided to be a risk the form the tratures. Yet sign one considerable to the restriction of the state of the provided that it takes your or five peace to anchor a carb hore, no cell or the high high proportion of old herses on forms, there is little like like like on the way being reject in the near future. The main distinction of the correctly of your smares and stallions."

Itarover Day Aft : Dan Leave Form Lowers Quality

Conthining of consumers about the law quality of eggs sometimes offered for sale dering such a conthe can often to traced to carelear management on the part of people handling the eight often they leade the form, says H. H. Alp, poultry extension specialist at the fallege of Agricult ps. This excity of Illinois.

For public enge tend to reduce ourchoose by housewives, and this in turn lowers the prices and profits received by both farmers and dealers. Thus with the approach of work weather, greater care should be taken in handling east as a truly perichable reduct, it is said.

The continuous are held in the back from of a store which also garves as storage. The for various items, come of which should never be in the same read with eggs. This read during the summer months will frequently have a ferral flow high enture to start the incubation of fartile ages. Another criticism in this connection is that often the small country beging stations do not have astisfecting thoses to held a product as perishable as a type.

In one instance last summer, when the prevailing temperature was about the degrees Pahrenheit. Ally reports visiting a produce house consisting of a large read covered by a sheet metal roof. In this room roultry was being and and as a stored until time for delivery to the next buyer. "Regardless of how good the quality of those egas while originally received by this dealer, they would quietly deteriorate under such conditions," he explains.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume KVII

March 1, 1, 4

Motor 1

Drouth Maker Thinch-Pap Berrie to Therm! To occept to

I vored to the continued ingonether, which have the becoming as reciping that they will stan be meane short for as theorem is a lacre of sorm on one former, take stor, invalidably controlled for in one of sort of the properties of the Phint, chief interpologist at one Hillingis of a lacred History becomes and of the College of Agriculture, University of Illinois.

and of the College of Apriculture, This reity of Illinois.

Horses of the sectorall controlled dialog of background small grain to continue the desirent of inverse and only is a room to building of the background background will arrevent of the stage day, Flint will

There tarries on note is to by receiving a compare one and she field, through the first toward the corn and then exceed then exceed it with a close track that is will never a smooth, dusty surface.

After this has been done, each holes to inches where would be the done the ridge side of the furnew about 10 foot about. The tope of the holes phould be often the and kept dusty so that the limit will tall into the containing arms. The during a transfer along the furnew seeking across.

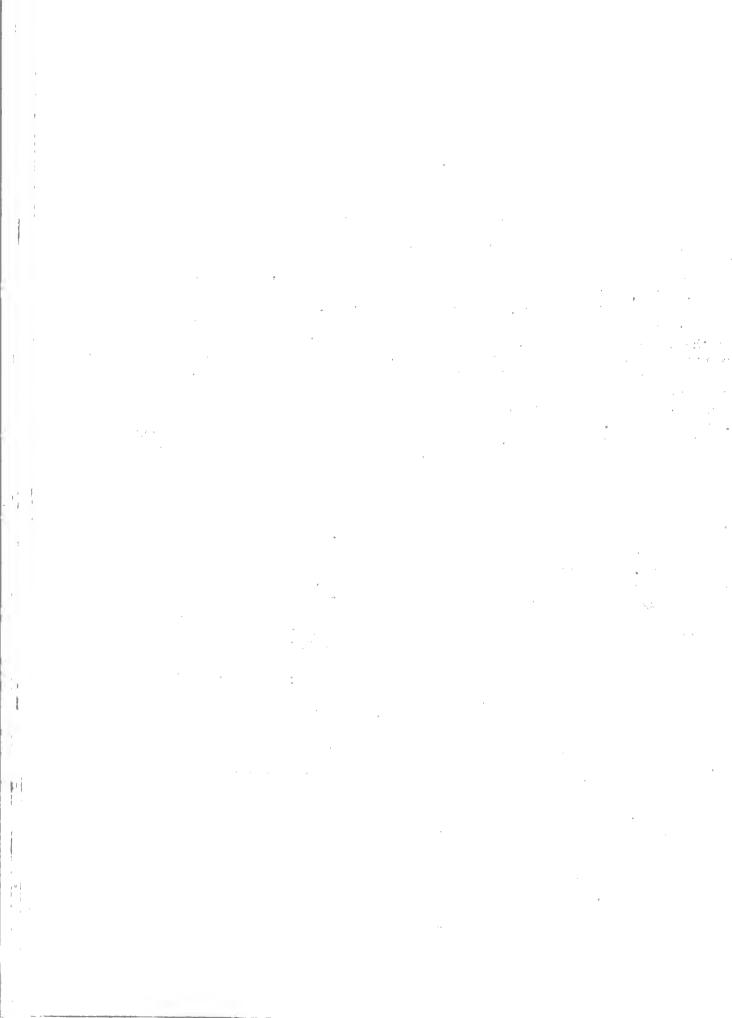
As soon as the chirch burn regis signstand for all early erain to the commission, a layed repoll of aculd to good the other for of the right. Thus proceed (not the expensive wood propervative type a nearly wine, nagathraland drain all only to some extent rine for oils are the most expective repellant; because of their strong, disagreeable odor. Ordinary road oil and used brank case oil do not have sufficiently recellant ofor and are not worth the labor of condication.

A handy contained for comblying to comuly exposede or other repolation to terms out to made by punching on 1-reany neil have in the cade of a setal budget, about or inch from the bottom of directly below the coins there the boil is oftenhed. A other of crossets or nowhthelene oil flowing from such a bott till form a line of the barrier ridge wide snough to turn back the bugg.

The recellant reterial should be ronew i between it? and ref of look of afternoon for the first several days, and then every other effernces during the 19-to 12-day period when the bug digretion is active. Bugs transed in the most holes should be destroyed each siteracen four sundewn by rouring one or two table possible of keros at into each hale, resttering it ever the bugs. The kerosene should not be ignited.

Retween 35 and 60 mallons of the recellant belution will be a fillient to maintain a quarter-mile barrier during the danger period, and the usual ocat is about 15 cents a gallon. An acre of corn caved will usually were than pay for the cain-tenance of a barrier one-fourth mile long.

Flore are being made for demonstrations in approvi ately is imported counties to teach local leaders proper netrody as construction are valuationing cainched bug barriers. These local leaders, in turn, will push the buildies of because is their own communities.



Vol. XVII - Mo. 1

Illineir Egirpmen Lead To Sired For Higher Rat mo

Illinois dringed who are cleaning for the tipe of reterior members less sile and butterfor but secure higher net returns through the come of "forer end bester" cows, are looking around a their hard siles, eye ?. Alabe, this in dairy husbandry at the Pollose of Aprilo live, University of Illinois. Perino the past year atoms at least to dairy had an interpret capit of the rest have been "proved" on the besin of definite or better records on their length ore, he records.

That the herd sire of today has a definite influence on the daily returns of tonorrow is shown by the fact that decembers of 1% of the Morphard bulls showed an average instruct in milk production over their dark, while 1 channels the grown. The daughtern of 14 of the simple rooms is one butterist than type for a, but the inventors of 11 channel loss.

Continued use of a simulation of white product is the their derivable are dually destroy the productions of a land, while the contactor is revealable gradually increases the officiar and a continui. Her till increases an estably takes also is illustrated in the second the ball, One Ring Posts.

One Fine Dooks was once rated to sever sumbred but tell severals who as an orbital fat production to the form of the production. From the constitute several butterfat production to the following the control of the production of the control of the

A study of the ordigment of their bull reveals that he six if how because of this head reduction. We size he and vance resistrationally a still high respect crossation, and has due help a high respect. The mastered by a court bull and out of a high-respective court of the first section, and has due help a high respect to the hour resistance that she could are assit high reduction. Then a librar propriety reliable the value of a size toy be judged, herefore, are available only through regular testing in a birty head improvement accomistion or alvanced registry (socilities.

I say Illinois dairpose have interved the profitation level of their head.

Through good feeding and alone of little and if further respects to no har de, much of it not took through the cost boils considered similar cown with higher devolved production, it is soid.

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First By once One Mich Good For 144 Club Work In 1 1/2

If the country consists of the new expelling in 4-H obths throughout the 16 counties of the fit to, or more compared the countries of the fit to, or more compared the countries of the fit the fit the coldinary ments of those who tests countries such a little of the coldinary coldinary coldinary. Approach to the fitter, but a coldinary coldinary coldinary. Approach to the fitter, but a fitter of Illinois.

The value of the livestock produced and caped on the III wais is foreless last pear a partie to approximately \$7.,76, while the error the growth a content of \$71,877, property F. I. Filosoppi, extension execution in a policini nodeless at the M. I. Sullege of April suture. Throuldment in content to distinct one set out it. Il, 40 airs, explains Normal. Made, a a names special our model for Book or in a content.

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Cowing Soybeans And Coupese May Help Meet Fred Prid

Threatened with a strict field shortness of a result of the days weath a and the chinch bug denote, Illinois livestest farm or stall have a classe to rest the situation by planting additional lead to coppens or come as for any, according to the enimal husbandry detections, Indian for a factorism. This continues it is all linois.

Dry weather since the orly cont of Asril her relaced the growth of partness, meadown and wealth grains. At the sense time the abnormally dry meason that been particularly favorable for the paraduction of hordes of chinch twos, the sent destructive and widespread insent not assent in the tate. This is been relaced as a short tipe, there the partners represent a spicer beginning factors of live-ctock feed, it was predicted.

Tince chinch been to not the bon leaven, it is being compacted that Itlinois formers take itsect to steen to increase their agreement of compaction. It may be relying to to plant some if the steen cross.

Eath, typholic, and very access to the limit of persons in test, decay and only attack. Then there is a new took to the control of the product of the persons of the persons of the persons of the control of the contro

Coppense in a could be able to be the name of intensity of the read by now - wared seedbed which cheut's contain and icien a consequent of result the bounce. Inoculation is, of course, access aded. Then or ded could not be a present will, if to 7 reads of beans will be required to the case, or if alamed in room a to 1 inches years, 35 to 45 pounds will as face in the case of redivisors to d.

Index green the of a river timfactory moultones that makes we two and key crop in Illinia. Herever, laws addenote one of the five at Finds of chinch bugs, it will be advisable to and either rough one or covered as a communion crop to sudan grass this year. Thind I bugh Is of beam as a sould possess of sudan grass to the some gives a practical conding.

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Food June Total One-Fighth Of Rural Family Emchans

Although form one in this state produce 60 nor cent of the 1903 served of their typles, the greeny bill is still the largest item in the family a 1904 for penditures, according to a premary of 167 hours account records as 6 by MrM. Buth C. Freeman, home economics extension associalist of the College of Agriculture, University of Illinois.

During the pact year the Illinois form families covered in the suspent water total cash extenditures ranging from \$150 to \$1,770, or an everage of \$600 cach, roints out Mrs. Freezen. Of this recent, \$147,00 l.5 nor cent went for the curch of food.

Cach operating expenses such as telephone, for l, light and power, ice, servant hire, soop, matches and similar small supplies occumied to 15 per cent of all cach expenditures. Another 15 per cent, or approximately 3001 for each family, was used in buying clothing.

Automobile charges accounted for the fourth largest ites, inversing I gar cent of all cash expenditures, while recreation and education corbined required laper cent, or an average of \$77 for the average family during the poor.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Number 22

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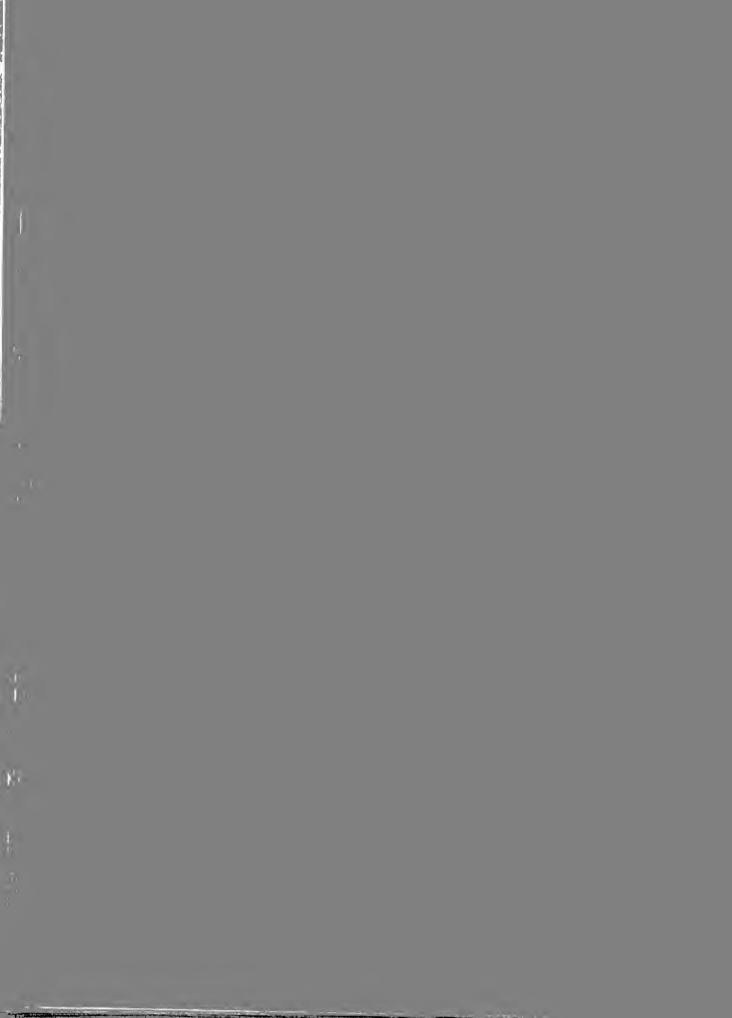
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District onto the control of the control of the Control of Aggiousture, University of Since counties are presented to the Control of Aggiousture, University of Since such a fer the countries of studying approved methods of feeding, the Since the control of the Aggiousture of Since Mondford on the country was the Since to the the tries.



Pry Owning a war and a rden Irrigation of the

The property is idea of arm getting one in gards and it we common find at by Illinois $x \in \mathbb{R}$, but the unusually dry weather of this continuous has brought hold the possibilities of armost in a convincing way, rows I. A. For re, veget the gardening entends a specialist of the following of agriculture, University of Illinois. Not all Illinois forms, but a vector in mother of their might have irrigated gardens at small expine, he will.

During Frouth seasons a plant, assemble interior writer by so a the fire forces between a productive rankmannia this label Liberine, unving a limitation set the proper tip is a mississippin or text to interior is a periodic.

In a conjustity of course the Illinois a motored in built on a light elevation with the second half out one course of water. Generally, too, there is near no course of the tip course of course by a confully or acceling engine that is course of course your course of them is nearly or accessful and live-second concretion.

Althors for a control the entrol, exclaime of it, we evine a common running from the limit of a control to the entrol the promotion of a guide of a control to the upper size of the term of the rest of the entrol to the entrol the transfer of the entrol the transfer of the entrol the water forced as to the him to value of the entrol.

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By using the probability of the highest tween the resonant of the highest tween the reward of vegetables. The highest tween the polynomial to the highest the upper end of a furneway and the other librarian to the force of the garbar. It will be necessary, to come to, the highest the highest transfer the water during by the investor of the continual to capture the water during, but investor or the state of the librarian and the major requires construct attention.

Different tomes will, neturally, quir different administration of emetype of witering system, for the embly is or or or a sensibility of the Walver, if Illinois farmers will lock over takin our difficulties, a great lamp of a fix it sow tirely possible and practical to isotype the secure with bet little expenses and leter.

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Rival Teams Will Got Dwin sonce In Full and Most

Who owner the best pull to team of horses in Illinois? Williard Russis, of BrringPield, be able to seed the test championship? What rectors should be considered in the selection of good pulling?

These are solvent the invitions that are going to be decided in the innual saries of home -pulling contacts to be conducted in different carts or the of the by the College of Agriculture, University of Illinois. E. F. Pobbins, diversors on ten ion specialist, will be in thems.

Four contests have already been coheduled for this water ond fall, and others may be arranged belone the season gets under way, it is said. For first is to take place at the Illinois State Fair, Springfield, on August land. The first day teams weighing less than first pounds will compete, with the heavier testing their strength the following day.

Thompsign county horsels to planning to come to with such other of to Joseph on August 17, while those of Warren county will stand their bornes. Gline that on August 51. The first confect schebuled this grant or next on 11 or a will be held at Condwich, in DoKalb coesty, on September 5.

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Therachey Hoy Aul Facture Are New Hope Of Farmers

Sudan grass, coybean, courses, millet and complement wet be clarted for the number of furnishing either of the or hey during lets for gracing within six weeks after a wife, and may be planted as lets so the first eart of jugust with reasonable course use of a crop of the or pasture before the furnishment. Flanting, however, whould not be direct. Finite answer raise to insuce manimation of the seed ofter the sing, if it can.

Because addance of in one of the coverite scale of thisch room, the error should not be seen alone, they extreme merchann and couldness of the state. In the addition, as discussed in a group about the lower in a discussion with either adjusts of our managers seem to be discussed to a discussion and the rute of 1 possible of our managers and have been appropriately as the rest of the rute tion may be a record to give outlied a copyright.

tion may be a record to give ration of properties.

If the family decimal, here well cases without former on Tooks Weller millet in the place of ender every, but the place of ender every last the place of ender every last the place of ender every the first the chirch busing in the every of millet, the millet result is the first chirch busing it should be clanical in sorbination with suffering to the endersors of practically the same rate as eafan many.

Where the former has a grain conghum, and the late may be needed instead of the order grand or the interest of the order grand or the late of the mac purchase and the late of the confidence of

In protures risks the specific or nurseaux one confide, it it titlds should not be graced after the first draw event to the discret of a modern a in valuating the livestock. Although it is hellowed to the runtar acid dos not nevel or in pure color grace, so much at the second results that been accidentally excused with sorghus that gracing after freet may result in proceed acid apicaning.

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Carbondale To be Tite Ci Guernsey Field Lay, Jure :

Calchinating the rapid proofs in popularity of Guarneey coatle in care state, Guarneey breader and their driends from coutborn Illinois will gath and Cras Grove farm, near Carbondale, June O, For a special field day and adding.

Between 400 and 60 during an and their families are exected to be end the event which is being openinged by the Illinois Gweinses Breeders A rejection. J. R. McNeil, of Tuccola, president, and H. J. P rheral, of Denville, seen they at the state organization, vall be in charge of the rield day.

At precent there are more than 5, 7% curebred Guerneey with an Illiania

famus, or an increase of apprexistely 186 per sent dines 1796.

C. S. Prode, which in design husbandry at the College to Applications, This versity of Illinois, will appear on the Cheld day program to live to be bretding problems in Illinois, with results reference to the product that the Guernsey breeders.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

June 6, 19:4

Number 23

Clinch Fugs Unharmed By Light Rains; Barriers Unged

Except where there have been heavy rains, the record hordes of chinch bugs. have not been thinned out by recent rainfall, and barriers therefore are still the one, nope of farmers in protecting their young corn against the first-brood bugs, according to W. P. Flint, chief entomologist of the Illinois State Natural History Survey and of the College of Agriculture, University of Illinois.

It is not too late to build berriers against the bugs even after they first get into the corn, Flint - it. However, in such cases it is necessary to go out into the corn, beyond the lime which the bugs have already reached, and build the barriers there with the idea of so ing as much corn as possible. Corn back of the barrier, where the bugs are feeding, should then be destroyed to force the pests into the tarriers.

There has teen some question about the merit of barriers from farmers who have felt that the bugs were so thick and so far advanced that it was futile to attempt topping them, Flint said.

Thrusands of miles of barriers have been built as a result of demonstrations which have been staged by county form rivisers, the Extension service of the Cablege of Agriculture, University of Illinois and the Illinois State Natural History Subvey, cooperating. Farm Adviser 4. A. deWerft, of Woodford county, for instance, estimated that 100 miles of carriers were built to protect Woodford county corn fields last year and that an estimated 1,00 miles of barriers would be needed in that county alone this year. The 100 miles of barriers built last year took a cash outlay of \$3,000 but they saved corn that was worth \$00,000 at present prices, farm idviser tewerff pointed out.

Throwing up barriers will protect that against the first-brood bugs mandating from fields of destroyed barley, pats, whent and rue to continue their destructive leading in nearby corn fields. Later on the second-brood bugs may destroy corn of poor stand on weak ground, even though it is protected by barriers, but these second-brood bugs will not begin appearing until about the middle of July. Furthermore, if there are good rains in July and August, bugs of the second brood will be drowned out or bundled" in, and the damage from them will be reduced.

Total damage from the pests undoubtedly will run into the millions, and anything that can be done to save some corn may be profitable. Flint pointed out. One
car the bugs caused an estimated loss of 6g million dollars to farmers in 17 southcestern counties alone, and this year they are worse than ever before and are scattered
ver 70 counties, he said. Aided by the drouth, the record number of bugs now present
in the ctate are destroying fields of wheat, rye, cats and barley and are moving to corn
fields in search of food a month earlier than usual.

"If the weather remains dry and it seems that the cost of a creosofe barrier is not justified, a dust harrier, may be used. However, such barriers are effective only while the soil is dry and must be dragged several times each afternoon to remain effective."

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Flanting Of Emergency Crops Pushed To Supply Feed

Thousands of acres of Illinois land where small grains, pastures and meadows have been ruined by drouth and chinch bugs are now being planted to soybeans and other substitute crops just as fact as sufficient rain comes to permit planting. Legumes like soybeans and cowpeas are being used most extensively because they are resistant to chinch-bug attack and can still be planted at these late dates. Crop specialists of the College of Agriculture, University of Illinois reported that most Illinois farmers had laid in their supplies of soybean seed and were only waiting for sufficient rain.

Seeding of a crop like soybeans is not considered safe until after enough rain has fallen to connect with the sub-scil moisture, crops specialists of the coleege pointed out.

while soybeans and cowpeas will be the most popular energency crops, sudan grass, millet and lorghum will also be used by some farmers. However, those latter three crops are good prey for chinch burn, and it therefore is recommended that they be seeded in combination with coybeans or cowpeas. The combination may be seeded at the rate of 10 pounds of sudan grass, malket or sorghum and 1 to 1; bushels of soybeans or cowpeas.

Possibilities for Illinois formers to produce at least part of their needed teed through the growing of emergency and substitute crops have been increased through the lifting of restrictions in the AAA corn-hog and wheat contracts. All the thousands of AAA contracted land in the state, as well as any and all non-contracted acreage, can now be turned to the production of certain hay, forage and pasture crops to offset the feed shortage resulting from the unprecedented drouth.

Farmers who have signed corn-hog and wheat contracts are not making the most of the new ruling which permits them to use their central tell acres for all hay, passure or forage purposes, except the planting of fodder corn and grain sorghum.

Heretofore the use of contracted acres has teen so limited that contract signers were only permitted to pasture additional permanent pasture that was seeded without a nurse crop.

The modification is particularly helpful to farmers who are now short of rasture or hay and who last spring seeded their contracted acreage to a forage crop with the intention of plowing it under for soil improvement. Phis crop may now be out for hay or pastured as the contract sugner decires.

The new ruling also helps farmers who set as the for their contracted acres old bluegrass or clover pacture; which they intended to plow under in a soil improvement program. This acreage can now be pastured or used for hay.

Furthermore, the contracted acres can now be planted to soybears, sudar grass or millet to be used as an emergency pasture or forage crop in late survey and early fall. Such crops, however, must not be cut for seed purposes but must be seed forage. Farmers can, however, sell have from these acres to a neighbor who has no boy.

In addition, the limitations have been modified to the extent that Many and all non-contracted acres may be seeded to any crop for forage purposes, including fodder corn and grain sorghum. Heretofore, formers were limited in their plantings of these crops even on non-contracted land, because their acreage of soybeans, cowpeas and all other harvested crops in 1934 could not be more than their harvested crop acreage for 1932 or 1933, whichever was the higher. However, even with the modifications, neither the fodder corn nor the sorghum can be planted prior to a date to be set by the Secretary of Agriculture. This date has not as per usen established. Illinois, but the dericion is expected them.

112 Oct 1 120 C ing of a provide the second Alternative form and referred the contract and the same of th and the second state of the second of the most base second Configuration In the property of the same appearance of the 200 200 in topother. And the second second second Establish State The state of the state of FEBRUARY IN 11 11 11 1 · 5) 1 · 5 en Signatura de la composición del composición de la composición d A STREET OF SHEET

Green Wheat May Furnish Emergency Feed In Illinois

Cutting green wheat and other small grain crops for hay instead of harvesting them for grain is one way that Illinois farmers can meet the present serious feed
situation, it is suggested by the College of Agriculture, University of Illinois,
With the continuation of extremely dry weather and the devastating inroads of the
chinch bugs, many dairymen face the most serious forage shortage in decades, it is
believed.

Wheat has a high feeding value, if cut for hay in the early dough stage when the plants are quite green, according to W. W. Yapp, chief of dairy cattle at the college. When cut at this time, it has more feeding value than cat hay cut under similar conditions and is comparable to mixed clover and timothy hay. Where the chinch bugs have been prevalent in the wheat field, it is easily possible that the largest amount of digestible nutrients and the greatest feeding value would be gained by mowing it for hay.

"It should be borne in mind," emploins Tapp, "that wheat hay should be fed in combination with a roughage of higher protein content, such as elfalfa, or should be supplemented with a grain feed containing relatively large amounts of protein. Adding ground soybeans or cottonseed meal to the grain ration will overcome the deficiency in the wheat hay.

The question of whether dairimen should cut their small grain for hay or marvest it for grain can not be decided for all alike, it is pointed out. Much depends on the probable yield of the grain, the price of wheat in relation to the price of hay, the prevalence of chinch bugs in the grain and the individual farmer's need for hay or roughage. These factors must be weighed on each farm before the final decision can be made.

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Sunflowers May Be 'tilized For Silage By Dairymen

Sunflowers may be grown by many Illinois farmers this year to make silege for their dairy cattle, as a result of damage to other crops by chinch bugs and drouth, according to Frof. C. C. Rhode, chief in dairy extension at the College of Agriculture, University of Illinois.

The fact that sunflowers are chinch-bug resistant makes them a possible cilage crop this year. In past seasons when the bugs have been bad, Illinois dairy-sen have grown sunflowers and have found that the resulting silage was fairly calatable, Rhode said. Cows fed sunflower silage, however, do not generally produce as well as those given regular corn silage.

Where barley fields have been practically destroyed by the chinch bugs, shode suggested that farmers may seed a portion of this land to sunflowers. The crop may be seeded any time prior to the middle of June, and is usually drilled in rows 42 inches apart with the plants 10 inches apart in the rows.

Experiments conducted at the College of Agriculture, University of Illinois indicate that the best time to cut sunflowers for silage is when about one-fourth of the plants are in bloom. Silage made from sunflowers at this stage is more pure about and is superior for milk production to that made from more mature plants. The composition and flavor of the milk are not affected by sunflower silage, Rhode silage.

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Volume XVJI

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Figure 1: All controls of the general free generations of a first chairman of the prince of the first chairman of the state of the first chairman of the state of the other chairman of the state of the other of the other of the other of the first control of the first chairman of the state of the other of the first chairman of the state of t

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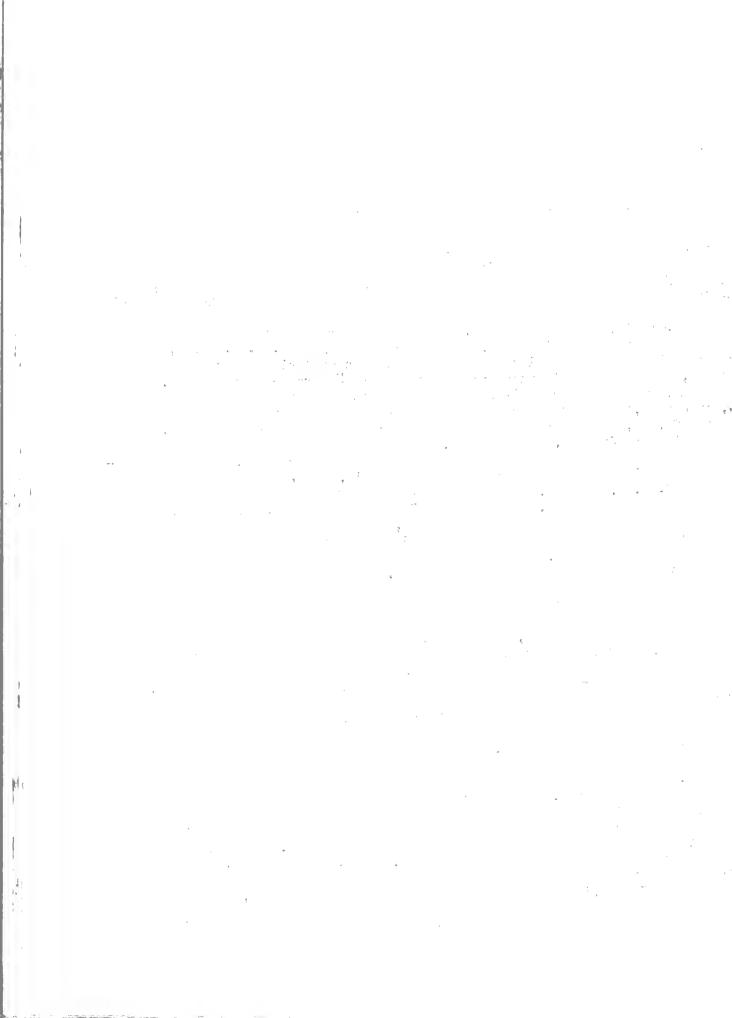
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Parties at the pureless of the enterior order at in station to a vast sould to encount who have bug the new the first or, themselves, had to get before the fieldwark chinch bug till to the set. The fieldwark of Illinois common they now time last summer and fall less care by the College of Agriculture, University of Iflancis and the Illinois State I turn. Hi to proceed the contined bug lague very immigent that season. They were forearmed the loss in the to get their notes in a decod, to in beinters built and their country.

The week and not June to ser corners pre-cring to the enter was the laste can't aminot the more of the bugs. After that the refer it as believed that the pests will be as a stered access to try to refer that. The copy be now comes where bere's a bright after this week will still fut a delice from he cure, but such comes to be a large.

It is bring of the minoblue throat was a disaged or reports which came

It is the important the minulature threat was a dispersive reports which came I for four divining as the description for barrier building drew mean. Quistian Out, rejected an infectation on this, that Form advisor F. H. Brock claimed the Chiran bug enter of the world for that count,. From Figure R. Homenly County and the lived to have been the chiral-man against, buf developments this season as that the "home," or now reports the homeon, to Christian, it was said.



Early Feeding Of Grain To Fullets Insures Egg Wesh

Fushing pullets for extra corly fill agg production may be a tenting way of trying to improve the form's cash income this year, but such guilets may "fade" out as layers and as a steady source of income, says H. H. Alp, poultry extension specialist of the College of Agriculture, "hiversity of Illinois. Eggs have brought Illinois farmers on every annual income of \$,100,100 turing the past four years, and this source of outh probably will be relief on more than ever this year, he said.

Egg prices are generally at their highest in the fall months, and to take advantage of this market, poultrymen force their nullets into early production by continuing them on a mach higher in protein ther is needed for mood growth.

The all-mash system of feeding has proved quite satisfactory in many in-

The all-mash system of facting has proved quite satisfactory in many inestances, points out Alp. However, when word incorrectly it is believed to be partially responsible for pullets "fading" out of production in the fall and winter, because of failure to secure good physical development during the growing period. Early meturity in culture is desirable, but acturity at the expanse of physical development is likely to prove unprofitable.

In helm overnous erratic winter legals, it is suggested that growing pullate be fed for good physical development, such as must be obtained on make larger through the laberal feeding of prain. It is take a set grained birds on not come into production as quickly, but in the crimion of a sucher of amortical polltrywen, there are likely to be were consistent in their states laying.

A minture of equal parts of errors occur and aneat fed in a hopper, in the junction with their gular mach, has given catiofactors economical results, $A^{(i)} \in A$ plains. As the light become older, whole grain may be a betity ed for the collection in the mixture.

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Intelligia storm Verified Inday E. Illinia. Forera

Fen Frank old lage about Tibe be t inventment in a depose of fertility in a coil band in being confirmed in the by hundreds of This is because, says to be Willer, consists in soil experiment fields at the College of grace ture, University of Illins.

Former, who in cost years applied line, thus to their orile so that skey might grow as clim, red as specifications, how sound the investment to gay good dividuals, and perticularly so this spring. Drieth in compact fluxous couples dried up the bluegroup postures, making them almost worthless by one widdle of lay, but legumes made possible by limestone applications have one to the receipt with both parture of foregr.

A thrighter of such investor to and timely dividends as found on the farm of Frank Hally, in McDean county, Illinois, explains Hiller. Fack in 1919, Hanley applied investors at the rate of \mathbb{R}^3 tens to the same on a 15-acre field. It was then conceded to be the thin est soil on the April and had not grown clover for $y \in \mathbb{R}^n$:

In the rant 13 years, however, the field has produced several good (end-) alfalfs of the spring extitutes an excellent growth of a red and sweet a ever when ture. The field is being ansected and the enter has recorded that it "co tound has been a life sever this season with the blue are any it to be little or no value."

It is recrible that the original of the disease of dections de lege-reago of less time to sive good results for samp more years, points out Miller. If, however, it is assumed that it is now exhausted or lessand from the soil, the cost of present prices has been only 45 class on hore each year.



Chopping Hop May Have saild Homet in Your the Lord

Illinois formers will not harve to their usual report 7,11 your of har this year, but that may be only one more reason the italian he long have to use the newer practice of storing it in chopped form rather than he long have in the opinion of R. H. Read, agricultural engineer at the follege of Agricultural engineer at the follege of Agricultural engineer.

Farmers to have isen using thepped highly given it less is weather to like accor, an important point ones to by trop in a large substitution to be this year, he said. As much as I to IC per uset may be want a when course soybern her or large of poor quality is fed long, at the lead.

Other the atases in fever of toring hap in enopped wither to a unchapped form are savings in time, leader and expense, Read reported.

From a massionnerie cent to remers in any packer of the United States, it was learned that those who are now copying their actual to have chapper or nailage cutter as it is put into the error have found the arest of social ctory that few, if any, would return to the use of long hig.

Among the many six trager noted in the less of chopsed hap, explains Food, is the elimination of work in the hot, musty non-classed to them. There is chopser a used at the barn, it not only out to the hog into about lengths but also elsewites it and places the how in any part of the more dealers. This is a fit was listed by every former answering the questionn issue.

In addition, farmers noted to the hope stand or got up to remain with fewer man-hours a ton, when it was sharped that then moon to as long hap.

Many formers also found that the carring or now size which in the chopping or have permitted saventageous often as in their former. I would be provided to be been supported were strong enough, or could be reinforced, result to provide how and have could be stored in the one apace or the entry of could be used for grain bins or other purposes.

Most of the femore using chapped hop reported that he a time and energy were required to throw the chapped may down from the not end seed it then her required previously for long boy.

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Burnyard Kings Get ar For Sake Of High-Judaty Eggs

The oran serson for roosters is on in Illinois, and right not the life of the "King of the Fernyard," who plays the leading role in lovering the applity of summer eggs, in in a hazarious position, announces the poultry division of the College of Agriculture, University of Illinois.

Rooster days are being spondered by farm advicers considere of some root newspapers and poultry companies in all parts of the state, with the result that make birds, young and old, are being correlled for market. Fremus prices and prices are offered to formers who bring their roosters to to non-special days.

Back of these robster day calabrations is an almost statement of set of produce higher quality eggs this summer and fall, it is explained. Decomposite commonths fortile eggs are the first to deteriorate, but by removing the make bird. From the floods, factors can take the first step toward invaring bother keeping position in their market eggs. Approximately \$5,00%, becall believed to have been lost by the nois egg producers in one year as a result of marketing low quality and but eggs, and to fertile eggs can be laid the blame for a large portion of this loss.

The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF INLINOIS

Timely Notes for Farm Advisors and others from the Agramman Conlege.

Experiment Station, and Extension Service

Volume XVII

June 17, 1774

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Illinois Former Mar Next Month Against Chinch Bugs

Illinois for ers have wiged on hion intensive Fight against the chinch bugs threatening their corn crop that by June 17 there had been distributed in this state a cotal of 1,25%, 100 gallens of the presente and coal ter which the government curchases and furnished free to formers for barrier building, it was amnounced by Frof. W. F. Flint, chief entomologist of the Jolings of Agriculture, University of Illinois and Illinois State Matural History Survey.

Any further check on the protect by the cost of berriers is now proctically incossible in all of the 76 infected counties. From new on the chief activities in the fight will center in the late planting of an agency crops to relate those first year ty the posts and the drouth and in the possibilities of respecting damage from the record brood.

The amount of governments which is all wood for berries in Illinois measured the total of 1,05,000 gollons when the state was greated un additional in ,000 gollons in June 17. The state's original allotment was 20,000 gollons, but this had been increased by 200,000 gallons before the simple additional grant of 1,000 gallons vas sade.

By June 19 the 11 of the heli used the entire juantity of larrier erecests and ter purchased by the government out of the special operapriation of \$1,000,000 which was passed in First 7.

Distribution of the 1, 200,000 gullens of oil was made in Illinois without the cost of a cent for telepries, where or other everyond, with the exception of transportedion laste. Necessary of the state chinch bug control commutes in charge of the lightibution were In a Flint, chairman; J. J. Suith r, state header of farm advicate in the extension server of the Jollege of Agriculture, University of Illinois, and Walter J. Maghlin, director of the Illinois State Dipartment of Agriculture.

Feavy rains in some parts of the atotal on June 17 acused no sypreciable assaulties in the hardes of chinch bugs. The pasts continued to be just as serious a hreat as ever to the open erop, which fromore are now depending upon more heavily than ver as a moult of the failure of many of their other crops.

Remarks lating that the reins did not lessen the dangers of chinch beg lamage were recoived by Fred. Flint from a number of counties in the state. F. H. human, for raiving of Junesia county, reported that bugs subscribed for two hours fter heavy rain. of June 17 appeared to be no lively as even often the water dried off.

"ith everything done that can be done to check the bugs to means at larrier, urmers now are thinking and planning of what to do nert. Suggestions to help tarmers grain the lamage that already has been done to their crops and to avoid as much damage a possible during the remainder of the season are being worked out by the chinch bug ommittee of the W. I. College of Agriculture composed by Prof. Flint, chairman; George i. Dangan, of the W. I. College of Agriculture composed by Prof. Flint, chairman; George i. Dangan, of the agronouty department; J. W. Lloyd, obericulture; W. W. Yang, dairy usbandry; J. I. Edmondo, horse husbandry, and James R. Halbert, of the W. S. Turequise lant Industry, Flockington, who is compositing with the college.

Late Form D y Be Best Forege Crop On Illancis Fames

Despite probably ismage by both chinah bugs and frouth, corn may get prove to be the Illinois farmers! best bet as a foruge error this full, in the orinion of 7. H. Dungan, eron production specialist at the Pollege of Agriculture, University of Illinois.

Corn is usually considered for its value as a grain crop, but in a forage chortage emergency such as may take place this year as a result of dry weather and chinch bug infectation, the floot day be called upon to exhibit ato dual possibilities. it is said.

About the time the chinch bugs law their age on the eaglier planted corn, high usually occurs in Illinoir about the last west in July, senore may still about corn that will develor a large emount of force before the fire. Willing frost, exlains Dungan. Obviously such corn will not produce grain out it may not mature anough for silege, but it will provent to foregot chartese on many far a.

This corp should be drilled thickly at the rate of l bushels of seed to the cre, in much the same manner as sorbeine. Heavy seeding is advisable to prevent the lants from becoming too coarse for the boot live stock ford. There is no resticular hoice as to the variety, for any well adm to been will arraige squaicient growth for orage purposes.

Tometime before the first killing from, when the abouts got table snough the orn may be pastured or out for hap is the family decires. The or in corn plants, howver, should not be restained after the first billing indet because of the danger of ruccio seid voissnina.

As a general recommendation, similain: Dungan, sombound, comment, sudan graffs, grain sorghum and millet are superior to corn for forage production. But this year reorts indicate that most formers have relenty of a cd corn on hand, while the seed of other nocable errors is becoming both scarce and expensive. Thus, in the absence of ther seed and in first of threaterists thinch bug days go, core by trove the most ractical engræens formær erem the foll.

In the Gerden Cross Still Passibilities In Illineis

With the drough being broken throughout that of the cists, Illinois home gardeners still have time to produce considerable look for their families, is they plant the proper cross, sage Las A. Somers, horticultural ameans on specialist of the College of Apriculture, University of Illinois. Probably on a systeble may yet be riented in most illino: countied with rescandle accumence of success.

Pari a re can still get good, though late, erope of touctoes, were re, feet rlant and the offices, if strong rlants in another arouth its heatened is with as oscible. Ith elea, it is just the time of year to and out live beans in northern and central Illingia although a bit late for the couthern work or the state. Furthermore, Cucurbers, surear and winter sought one - ven at early sacrety of audicelon tuch es Hale's Bost may be planted, if no time is lost.

Smeet form should be planted not and successively until as late a July T. while string beens may be put out at regular intervals until how July. For those the like own, a crop may still be hed, if seeded growtly.

By drowning four or live seeds in cach hill and later unibning out the clants entil the most vigorous remain, Illinois growers may probuge late cables on boardi-

flower crops. In the case of cabbage, however, only yellow -resistant variaties such as Wisconsin All-Head Calect or Wisconsin Hollander Wa. 1990 10 to thereof.

To supply stream greens, the caseen is not too late the colors chard, thill other error that tay yet be prested include over the Late rote, Late 1990. Torker or Camen No. I rotatose, not some and dry begins.

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Phosphorus Test Aiding Farmers In Plaine ALA Acres

Perfected before AAA programs were started, the risk plant have soil test developed at the College of Agriculture, University of Illino and the the base of Illinois farmers who to participating in the government's objectment and reserved to reports by C. W. Dinsley, soils extension appearables. More than 42%, farmers in this state have signed color-log contrate and come 25,000 and compensation the wheat control compaign.

To take part in the adjuste to pingrow, the farmers agreed to withhold from normal production at least 15 per cent of their former wheat acreage and 10 per cent of their usual corn ground. AAA regulations, however, result the cooperators to use these contracted acres for certain numposes, one of which 15 the seeding of legumes for soil improvement and exocion prevention.

Desiring to grow certain legumes on the contracted acres, AAA contract signers must first know whether or not the contracted acres contain sufficient phosphorus to assure satisfactory growth. It was in such cases that the available phosphorus test proved its value in the government to adjustment programs. The soil acidity test recommended by the U. of I. College of Agriculture, Libraries, was of value in determining whether the proposed contracted acres contained enough lime to grow alfalfa, red and sweet clovers.

How the phospherus and acidity tests actually aided Carwar, in avoiding serious mistakes is revealed in the personal experience of R. A. Congram of Ford county as reported by Form Advisor W. F. Purnell. Constant too accorded to seed his AAA acres to alfolia and had located this plot where it would be most convenient for his tenant. However, before seeding time Congram attended a soil testing meeting conducted by Purnell in cooperation with the extension service of the college of agriculture. He took with him soil samples from the proposed contracted acres as well as from another field not so conveniently located but still available for the purpose.

When the tests were made at the meeting, Congram was surprised to learn that the first field was medium acid and low in available phosphorus, and wherefore unsuitable for offsilfs without treatment. Field No. 2 croved to be sweet, with a fair supply of a clable phosphorus, and hence in good condition for alfalfa production.

Like . The other farmers in various sections of Illinois who had similar experiences. Congrue made arrangements to change the location of the contracted acres to the second field, thereby probably saving his alfalfa seeding.

Feach Thinning To Re Profitable There Is Crop

With prospects for good peach prices this year, southern Illinois growers can well efford to thin out the set to obtain the greatest possible yield of truit of marketable cize, cays M. J. Dorsey, chief, and R. L. McMunn, of the division of pomology, College of Agriculture, University of Illinois.

Since the crop to the north of Illinois was frozen out this year, growers of this state seem to be in a strong position in the market. This alone will repay orchardists for bringing on a high quality crop, it was pointed out.

The buds that survived the low temperatures of the nest winter are, Tor the most part, located at the base of the shoots, it is emplained. This has resulted in so uneven distribution of the buds over the tree that a different type of thinning should be practiced. The usual attempt to space the fruit should be emitted this year in favor of thinning according to the total local of the tree.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volum KVII

17, 17-4

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Increased Inductrial Antimal, Bolstern Farm Frices

Brighter boys for Illinois farmers have been ushered in with the continued swell in factory paymolds, continued with increased in Tustrial production, in is shown in a monthly review prepared by Dr. R. W. Bartlett, Agricultural Economist, W. of I. College of agriculture. With grains registering the most rarked advances, the index of Illinois farm prices prevailing in May was 10 per cent higher than a pearago, the review points out.

Business conditions in May remained about the same as they were in April, int up to that time the course of basiness activity in the United Status had been

definitely upward since November, 1973, Dr. Bostlett and.

About 1. million dellars here was received by Illinois factory workers in April, the most recent booth for which figures are by flable, than they received in April, 1933. Nevertheless, the April payroll this year was only by per cent of the April average for the pears 10% to 10.7.

The total A, ril income for factory workers in the country as a whole was 785 willion dollars, which was an a crease of 37% million dollars, or 73 per cent, over what it was in April, 1933, the review rejorts. However, the April V. C. factor, rayrolls in April of this year were only 67.5 per cent of what they averaged laying April of 1935 to 1975.

The demand for food and lense the prices for farm, solute are influenced

by such changes in payrolls of industrial workers, in . Barklett explained.

"Prices of all Illinois farm grains in May of the year jumped 30 per cent above what they were a year ago. Onto, barley, wheat and corn made marked advances, while hay prices in May were 38 per cent higher than those of a year earlier.

"The principal advances in hay and grain prices can be ettricated to actual or probable reduction in supplies resulting for a the drouth, chiral boxs and form of-

justment programs, going along with a continued improvement in demand.

"Illinois lavertock prices in buy registered as 7 per cent increase over the surk of a year ago. Prices of law, sheep, horses, beef cattle and veal calves were higher than they were a year ago. The only classes of livestock to register a secline were hogs and milk cows. The average price of hogs was \$3.15 a hundredweight on May 15 compared with \$3.56 on April 15 and with \$4.31 on May 15 last year. The decline for the past month was partly seasonal and partly the result of a larger than psual increase in slaughter.

"Average form prices of Illinois livertack products to may were 16.5 per out higher than a year earlier, with wool write thowing the most marked gains.

Sam prices for each were 13.5 per cent higher; for chickens, 6.4 per cent higher; for mill, 12 per cent higher, and for butterlat I per cent higher than last year.

Wool prizes whre 45 per cent higher than these of a year ago.

"Indexes of Illinois farm prices of products by months in the compared with the same nonth of 1921-1929 were: January 5, Frbruary 56, March 56, April 56 and May 75. The Illinois farm price index for May, 1934, was 10 per cent higher than a year earlier."



Lespedeza Straw Proves To Be Fair Dairy Roughage

Illinois dair; men faced with a shortage of forage for their cows as a result of the extreme drough this spring will find threshed lespedage straw a fair or money roughage, suggests W. B. Merena, associate chief in dairy cattle feeding at the college of Agriculture, University of Illinois.

Experiments just completed by the dainy husbandry department show that although lespedeza straw can not be expected to be as high in feeding value as well-cured lespedeza hay, it is nearly equal to early-cut, loady, green soybean hay.

When 13 dairy cows were feel becomedera traw, I vend reports, they produce the everage of 33.5 pounds of milk doubt an compered to 15.5 pounds when red copperation. The lespedera straw in this case contained 7 per cent protein, while the segment has gave an analysis of 13 per cent protein.

Lespedeza is usually harvested for cood when the plants are weed matured. At that stage the plants are lower in protein and are more woody than at an earlier stage when the best quality hay can be made. This probably accounts for the fact that the lespedeza straw was has polatable to the count than the maybean hay. In space of this difference, the cown consumed all but his percent of the lemmates straw, while they left 33 percent or the conseen hay in the manners in the form of coarse stems.

The lessedesh straw fed during these trials consisted of approximately 67 per cent leaves, 45 per cent stems and 2 per cent timothy stubble. This high percentage of leaves and the good results obtained and accounted for by the fact that the lessedesh was cut before complete maturity. All of the leaves were carefully dived, the straw was free from mold and in good fording condition. The leaves of the coylean hay, which was harvested very early, formed about 64 per cent of rough pr, the struckly per cent and the mode 5 per cent.

Thus, when handles is a marner that will conserve its feeding value, lespedeza straw may be depended ason to give fairly good results as a magnings for dairy cows, says Mavens.

27/2

U. S. Inspections Sheed Pruit And Very cable Gales

Shipper point inspection service, now available in many parts of Illinois, is adding both speed and nationaction to the sple of the tetr's \$25,000,000 finit and vegetable crops, days J. W. Lloyd, chief in from and vegetable made ting at the College of Agriculture, University of Illinois.

Illinois growers are finding that official cartification of the grade and condition of their products is especially halpful in making sales on telegraph orders, since the importation supplied by the inspection service is recognized as authentic in both the trade and the courts.

On a failing price market, explains bloyd, a car of either fruits or vegetables with an inspection certificate is such less subject to rejection than a car without benefit of such service. This is a veloable adventage to the chipper. Distribute, on a rising market, the distant buyer is more certain of getting that he wents, if he buys only on the basis of official inspection. Thus more satisfactory dealing all around is made possible through the inspection.

This chipping point dervice is furnished by the Illinois State Decembent of Agriculture in cooperation with the U.S. Bureau of Agricultural Economics and any be obtained by grower, shipping agent or bugar in all localities where early applies, subbages, peaches, toratoes, and lete applies or produced in authorist conversible, and tities.



Vel. AVII - No. '6

Small Grain This Year Is swited To Good Yombining

While 1914 brought drouth, thinch bags and unusually shore wheat and sets, it also supplies optimize conditions to calbine-hervest Illinois small grain crops, says A. L. Young, agricultural engineer at the College of Agricultura, University of Illinois.

In Lort parts of the ctate this second, it is possible to bet standing grain ripen thoroughly. There is little done not beinging, and there are few weeks to increase in size as the grain drive. The rest that the grain is short sill prove more of an advantage than a handlesp to Illinois a whine speciators.

As a result of these deverable conditions, here very there will be a tendency on the part of operators to thresh unusually eact, almowing a heavy load of grain and chaff on the cleaning sieves and creams. This should be avoided, explains Young, for it is likely to cause difficulty in separating even the dry foreign material from the grain. If the cieve openings are high small enough to learn the avy acreign matter, replied threshing will cause heavy tailing, resulting in a fairly large loss of grain in chaff and straw. Furth reser, this may extend contains born to when exceeding amounts of threshed grain are returned to the colinder.

Short and very brittle, thew to be round in some Illinois grain fields this year will tend to increase the assumt of charitates that works down through the straw ruct. This will increase the amount of chaff that test be hundled by the cleaning theves. On some combines the size of the opening, in the rich or conveyor can be and smaller to care for this condition.

To reduce the amount of chaff, it is generally best to use fewer concave teeth and keep the op well. Lovering the concave may let an excessive number of behavious pass through unthreshed, particularly when the straw is show

Windrew contining this year is likely to prove schedule trials. The fields where there are both short grain and woods, computers should been in wind but win rows not expected by a fair amount of mobble dry out very south if so needs, a rain. Moreover, when windrows that consist mostly of heads are pucked up, the abount of grain left on the ground will be high. Then too, indroving short outs, where the constant have not been out into short lengths is salder advisable.

Training Orchards Paine Storond Ac Thing Co Bast

Another of the order from practice that is fast becoming a thing of the good in the 176, 170 perces of Illinois crebwide is elecan cultivation, according to Dr. W. A. Ruth, chief in cometagacal physiology at the College of Agricultume, University of Illinois. Although at gave ordered a book of beauty and or well-being, elecan cultivation is now known to do more branch as then good. he said.

It is true that cultivation at certain times provides the best conditions for growth, points our Ruth, but it also paves the way for soil erosion which is also provided than it appears. Further are, excessive ordered cultivation retained the available vater curply for the treat. By creating a flust hulch, which rater parameters only along, cultivation causes the rain to run of instead of backs into the soil. Bilewise, continuous cultivation destroys organic exiter.

No definite rule for cultivation can be prescribed for full greature, sate Auch. The age of the trees, the topography and physical condition of the soft was to considered for each individual ordinal in light of the bandait or how, the regions are result at certain cultivating practices.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

July +, d. 4

Vur beir 27

Late-lown Trops Muct Produce By remov Stoc. Feeds

Energency feed to help compute the relation head or live took on Illinois famus can be obtained by plants glace or a relate as the raddle of Argust, according to a new circular, "Late-Jown Energency Feed From the litinois," which has fast been issued by the Corlege or Agriculture, University of Illinois to help famics cope with one of the most scribus feed situations in history. Pr. L. H. Omith, of the department of agronomy, is the author of the new circular.

Goybeans, compear, term, such nigroup, type, the tiserghum, rane and buck-wheat for emergency fodder purposed the branched in the common of them as late as mid-August, the circular maintenant. It is too much as event normal yields from these late-sown crops, even in the weather in the rane ble from now on, but they will enable farmers to make the best of a bad something.

A further development in the process of chinch bug shortages of laws took feed as the lifting of AAA restrictions to permit Illinois formers to plant redder corn and grain convolums on any or all of the "Town, Off acres of lend which was being rented to the reversion under wheat, or whom and tobacco contracts.

For the nest part, formers have another choice between the different emergen, crops because seed at most of the all scarce, it is pointed out in the college's new circular. It is being sugged to that formers is such seed as the hand. If corn is available, as it askally at planting it promptly where is as reasonably safe from chinch bugs wall not all give better results than delaying to search for some other crop.

Sudan trace has given reasonably place results at the U. of I. college of Agriculture when it has been planted for observing proposes as later as the middle of Author. I as a fact grower and can be used for may, resture or savinge. We the exemperiment what not made pasture or orly as now to him weeks after planting. One objection, of college, the fact which bugs like it. Targe seed lealers may be able to furnish seed. I ample and Tomas where large quantuties are desired, to inquire in Mansas, I let has and Tomas where sudan grass is grown.

Millet is inother of the loops that can be sown late in the season. It is not a nighty regarded as sudan eress, out seed of it can sometimes be potained after the outer supply is gone. This is another of the eross that the chinch bugs like.

Sorghum will withstand very hor, dry we ther, but it is subject to chinch bug attack. There are many kinds of sorghum, and the error can be used for hay, forage, silage, seed or the preparation of sirup.

Rope, confithe chinch-bug-proof crops, is used for pasture, especially for three and mogn. It should not be fed to dairy cows because it gives an off-flavor to the milk.

Buckwheat, another chiner_bug-proof crop, may be sown until midsumer for a seed crop. It will thrive on poorer soil than will many other crops

A mixture of sudan grass and copiesns has given good results on the experiment station farm of the agricultural college.



Banner Illinois Year Fredicted For Legunes And Lime

With approximately 1,500,00% acres of Illinois corn and wheat land retired from normal production as a result of the government's adjustment programs, 1954 may become the banner year since 1955 in the application of limestone and the seeding of alfalfa and other legumes in this state, says C. M. Linsley, soils extension specialist at the College of Agriculture, University of Illinois.

This is borne out by reports from county fame advisers in all parts of the state. In all these reports there is avidence of a new and livelier interest on the part of farmers in the college's long-time program for more legumes and better bal-

anced cropping systems.

Two of the most noticeable effects of the AAA in Will county are the increased demand for alfalfa and sweet clover seed and the increased use of the soil testing service to protect these new legime deedings, according to L. W. Braham, from advisor at Joliet. "Un to May 1," Braham explains, "the demand for alfalfa seed increased more than 250 per cent and awest clover seed 300 per cent over the abount purchased during the first four months of 1 ye. As a protection for these increased purchases, samples of soil representing more than 500 acres were tested and mapped during the month of Agril alone."

Thirty-two carloads of limestows are ordered by Poorse county farmers during April and My of this year, reports J. W. Whisenand, farm advisor there, while in Carroll county 15 crushers have been operated at local quanties to supply the limestone demands of farmers. "It looks like one of the high years for liming and sowing alfalfa," is the comment of M. P. Roske, Carroll county farm adviser.

Scadings of alfalfa in Stephenson county will be unusually heavy this year, if the number of soil tests and inquiries relative to the sending of alfalfa can be taken as an indication, writes Form Advice r %. Fanter. In one month 16 C? acres of Stephenson county soils were tested for accounty and bundleds of inquiries received

relative to learn production.

The corn-hog program has directed the attention of Douglas county farmers to the upportance of crop yields, and as a result there is a growing interest in legunds this cor, Farm Alviser Ward ". D. Murphy reports. A similar trend is noted in Edwards county where Firm Advise. ". D. Murphy reports gains in alfalfa acreage. Sales of alfalfa seed in D. Witt county have been several times higher than normal, in the opinion of Farm Advisor H. N. Myers, and E. J. Amrine, farm advisor in Wayne county, reports several hundred tons of limestone ordered for farmers in his county.

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Use Of Tractors Making Abnormal Gains In Illinois

An abnormal increase in the use of trictors is taking place on Illinois farms today as a result of the steady accresse in available work horse and the improvement in tractor, and tractor equipment, says R. I. Showl, assistant effect in agricultural engineering at the College of Agriculture, University of Illinois. The latest available consus figures credit Illinois farmers with nearly 75,000 tractors, or an increase of almost 61 per cent over the 1925 tractor enumeration of 43,525.

This trend in the use of mechanical power has been standarded in the last fer years by a accided increase in the over-all efficiency of tractors, resulting from improvements in design, material and construction. Quality, dependability, adaptability and long life are now designed by and available to tractor buyers.

Furthermore, in their efforts to reduce crop products, who the famous who grow row crops have been attracted to the modern second-purpose type of tractor with its multiple-row cultivating and planting equipment, applying N and.

5 25

Delayed Peach Spray Likely To Pay Well This Year

With prospects for higher prices this summer, Illinois peach growers who are fortunate enough to have a crop will save money and get better results if they delay applying the usual sulphur sprays or dusts until two or three weeks before harvest.

This is especially true this ceason because of the dry spring and the light infestation of curculio, advises H. W. Anderson, chief in pemological pathology at the College of Agriculture, University of Illinois.

Brown rot, the most serious fungous disease of peaches does not cause much damage until the peaches approach maturity, it is explained. In seasons of heavy, early-summer rainfall, some fruit rotting may occur four or five weeks before maturity, but this is rare under Illinois conditions.

Since sulphur sprays or dusts are mod insurance against brown-rot dumage, growers will make a serious mistake, if they neglect this practice and allow the disease to become established in their orchards. With a general scarcity of peaches and higher prices for quality fruit, the crotective spray will pay good dividends on time and money expended.

The most effective spray achievals for brown rot is one application about two weeks before harvest and another as mear harvest as possible. Wettable telephone which do not stain the fruit or lime-sulphur ousts should be used. In discretize should not be added to the spray at this time, and line may be emisted when the wettable sulphurs are applied.

Although some buyers are incline to discriminate the fruit showing evidence of spray materials, neither the rive nor the sulphur is injurious. Furthermore, the presence of brown rot is likely to cause greater measure loss than the appearance of a small amount of lime or sulphur on the peaches, it is said.

big Investments In Livestock Justifies Having Made

An invectment of more than \$140,000,000 which Illinois farmers already have in livestoch readily justifies the small amount of money and labor that might be spent in supplying shade for their animals during the entremely hot days of midsumer, says W. A. Foster, farm building specialist at the College of Agriculture, University of Illinois.

Sunlight in the winter is a tonic, giving warmth and comfort to all animal life, points out Foster. But in summer it becomes so intense and severe that live-stock should have protection from its blist-ring rays in the middle of the day. To-day many Illinois pastures are void of shade and the animals confined in them must suffer from both extreme heat and insect pests.

If trees are not available for shade, artificial protection can be crected with small cost and a little labor, Foster explains. A few posts and poles covered with brush or wire, then a thin layer of stalks, weeds or straw will give adequate shade. The rain will pass through this thin structure, thereby reducing the dust caused by the stock stamping at flies.

In line with the renewed interest in soil conservation and recordstation, setting out a few trees in each field and pasture will supply a shade in a few years that will pay large returns on a small investment. In carrying out such a plan, farmers should use care in selecting the trees, choosing healthy, quick-growing varieties that will become beautiful, hardy specimens. A protecting barrier should be built around the trunks of these trees so they will not be injured by the animals. This will not only provide shade for the livestock, but will add beauty to the farmstead.

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The Extension Messenger

COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

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v i. XVII

July 11, 1934

Number 28

First Illino : Corn-Hog Contracts Now In Washington

Approximately 1", Of Illinois farmers who have signed corn-hog contracts locking forward to the grival of the first checks for close to \$35,000,000 in benefit payments, following the announcement by officials of the College of Agricultur, University of Illinois that the first of the contracts from this state have been ont to Weshington.

The first confronts—87 in number—were from Platt county and were mailed to Vacaington Saturday night, July 7. As soon as the contracts are checked and activity the Secretary of Agriculture, the first checks for benefit payments to and rein this state will be sparted back from Washington. All those in the first oneignment were early payment contracts, that is, the farmers signing them agreed to cont changes in their contract figures without having the changes submitted for a approval.

Titteen other counties made progress toward getting their checks when it was uncomed that the had adjusted the contracts of their farmers to meet the quotas of critical had production as set by the state board of review. Four other counties on fort, July 7, had all but completed the adjustment of their contracts for final approved and rive other counties will probably get the work finished this week, it was uncomed by A. J. Surrett, state agricultural statistician and chairman of the state of the review.

The lo counties that have Just met their quotas are Boone, DuRage, Lake, De Witt, Piato, Effingham, Fayette, Monroe, Williamson, Saline, Wabash, Washington, Clare, Mry, Cunterland, and Moultrie. Six counties that had completed the work earlier are Cook, Fil, Bond, Calhoun, Lawrence and Gallatin.

The Your counties next in line to meet their quotas are Scott, Ford, Massac and Edwards. The live which probably will get the work done this week are Cass, Phristian, Greene, Madison and Crawford.

After the counties have met their quotas, all that remains to be done is to the contracts typed in final form, signed for the second time by the producers and then sent to Washington, ofter the necessary clearance papers have been obtained from the state heard of review.

Tith the payment of benefit checks to corn-hog farmers just getting started, or than seven million dollars had been distributed up to the first of July, according to word received by the U. of I. College of Agriculture from AAA headquarters at Washington. Nearly 65,000 farmers had shared in these first payments, most of which went to those who signed early payment contracts.

Once they are sent in to Washington by the county corn-hog production conrol associations, the contracts are handled at the rate of 40,000 a day. A rate
ould be even specifier than this and the checks could be sent back still sooner if the
ontracts were absolutely free of mistakes. When examiners find mistakes and inadeunte information in the contracts, the AAA must write a letter to the county corn-hog
rolution control association to get the correct facts. This takes time, but care of
his find must be exercised in dealing with more than a million cooperating corn-hog
rmer: throughout the United States, it was pointed out.



Detrils Of AAA Whost Program Remain Mach The Same

Approximately (5, 11 Illinois farround who are conjugating in the government of AAA whest program were assured three million follows, or about the much, in crop insurance and benefit payments on their least organization. Herbert W. Mammord, or the College of Agriculture, University of Illinois, received official word from Washington relative to plans for the coming years wheet program.

The required reduction on wheat seedings for harvest in 1 % is to be 16 ter cent from the base period of 1976-1 %, the same as was the case last year. However, the sameuncement stated that more details were being sent in any life tion of this point.

Renefit payments for taking this adjustment are to be paid to the cooperate ing farmers at the rate of a centura bushal on [4 for cent of takin average production during the base period of 100-100, the case as was the case last rear. The purpose is to give cooperators a parity price on that rection of their cheat which goes into domestic consumntion, and that pertion is about [4 per cent.]

Twenty of the 0 centure is to be reid this Catabar and the remaining nine

Twenty of the Objects in to be wid this Cotober and the membining nine cents less less administrative esses, west June.

The total benefit payments for the state figure up aloss to three dillion dellars lace the cost of local abbitishmetics.

The processing tax of 30 centers bush I is to be continued as a means of financing the whest program, essenting to the word received by Dean Municad.

Announcement of the AAA wheat plans for the coming year continues a wheat adjustment program which Illinois formers have been corrying on for about a score of years. Between 1 in and 1953 form is of the state, guided by the teachings of the extension service, U. of I. College of Agriculture and their county form advisers, out their annual acreage of winter wheat of our cent, or more than one-helf.

معاً إليه

Directing Chinch Bug Durac Fails To Theck Insect:

While some in thed or of a ping out the nameh bugs new threatening Illinois corn fields would be welcomed, there is no hope that it can be done by proceeding scores of the chinch burn white fungus discuse or by putting out bugs that are infected with the disease, are aring to W. F. Flint, which entemploying of the College of Agriculture, University of Illinois and Illinois State Natural History Survey.

If the weather should continue negatily iry, the disease will not agreed to other chinch bugs, and even the distribution of large postitics of the disease spores will have no effect on reducing the number of insects. If the Illinois sorn telt should have an ususually set surmer, the disease will spread naturally without artificial procession or spreading.

Thity proves ago, during the heavy chinch hag outbrook in 1 of to 10.7 and for a number of pears thereafter, experiments were carried on in Illinois by the late Ir. Stephan A. Forther and Dr. Encw of Manage in an extempt to him the chiral bags by spreading the disease among them. For a time it managed that this are took or central would prove successful. Continued attained, however, gave disappointing evidence.

The Metural History Survey from 1910 to 1915 developed a method of growing the distance on different types of media and was able to produce spores by the buchala. As long as the weather remained dry, it was found that putting out spores even by the reck in infected fields had no effect in killing the lags. If the weather because out for a considerable period, the disease always appeared naturally and there was no the vantage in appeared and diseased chinch bugs or disease scores.

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Silor Aid Illinois Farmers In Acute Forage Chartage

Silos are coming into such importance as a result of the cratical feel situation that one farmer even wanted to know how he could move a concrete silo inatead of building another, according to W. A. Foster, farm building specialist of the epartment of agricultural engineering, U. of I. Gollege of Agriculture.

Extremely dry weather and the chinch bugs have combined to reduce the amount of hav and other forage that are normally stored for winter livestock concumption. But on farms with siles, this location be overcome at least partially by putting up additional silage. Corn planted or re-planted too late to mature for grain will name good silage. Furthermore, such chinch-bug resistant crops as similowers, coybeans and cowpess may be made into silage. Where grain sorghir is grown, this too may serve as a substitute for the more common corn silage.

Directions for successfully moving a concrete sile, which at least one farmer wished to do, would be hard to give, but if a new cile of any kind in to be built, there are certain things that must be kept in mind, Moster pointed out. In the first place, the structure should be strong enough so that it will not burst under great pressure. It should be smooth on the inside so that the encilage will settle freely, and leake proof so that the juices will not seep away and air enter to cause spoilage. The cile should be economical, of ample capacity, stems and fire-proof and attractive. The latter feature may not be essential, but it will add to its value as a permanent improvement in the farm building group.

Whether or not a sile is necessary on wort Illinois farms is, of course, de-batable in some cases, cays Foster. However, with the increased difficulty of earning a livelihood out of the coil because of keen competition, insect peaks, drowth and floods, late freezes and early frosts, the cile is becoming increasingly important in Illinois farm operations.

Silo filling is hard work, but it is all done in a few days in late August and early September. Then the sammer has available, in a 100-ton asso, sufficient feed to carry a head of 35 cows through the winter with enough siloge left over for four to six weeks leed during the summer when pastures are short.



Close Inspections Cut Revair Costs On Farm Tractors

Some kind of a long-distance record is likely to be obtained by a ten-year-old tractor at the College of Agriculture, Thiversity of Illinois, and many of the 70,000 tractors now being operated by Illinois farmers would do as well if they were given the proper care, says R. I. Shawl, of the department of agricultural engineering.

For the part mine and a holi pears, the U. of I. department of agricultural engineering has supervised the operation of a tractor during which time it has concleted nearly 6,000 hours of general farm work. The average yearly cost of repairs for this machine has been \$50.37. The tractor is still good for expend more years of work and need not be "junked" until the hourly cost of operation exceeds that of the newer and better tractors of present manufacture.

No matter how well a tractor is cared for, there will be some wear, breakage and need of repair, explains Shawl. These repair costs, however, can be reduced to a finimum by daily and yearly inspections and the use of high-grade oils, greaces and fuels supplied from clean containers. Checking over a tractor each year locates all the loose bolts and nuts and the parts that need adjusting or replacing, thus proventing serious delays in the field. Taking care of every repair or adjustment as seen as it is found also adds to the life of a tractor and reduces maintenance costs.

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COLLEGE OF AGRICULTURE - UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College,
Experiment Station, and Extension Service

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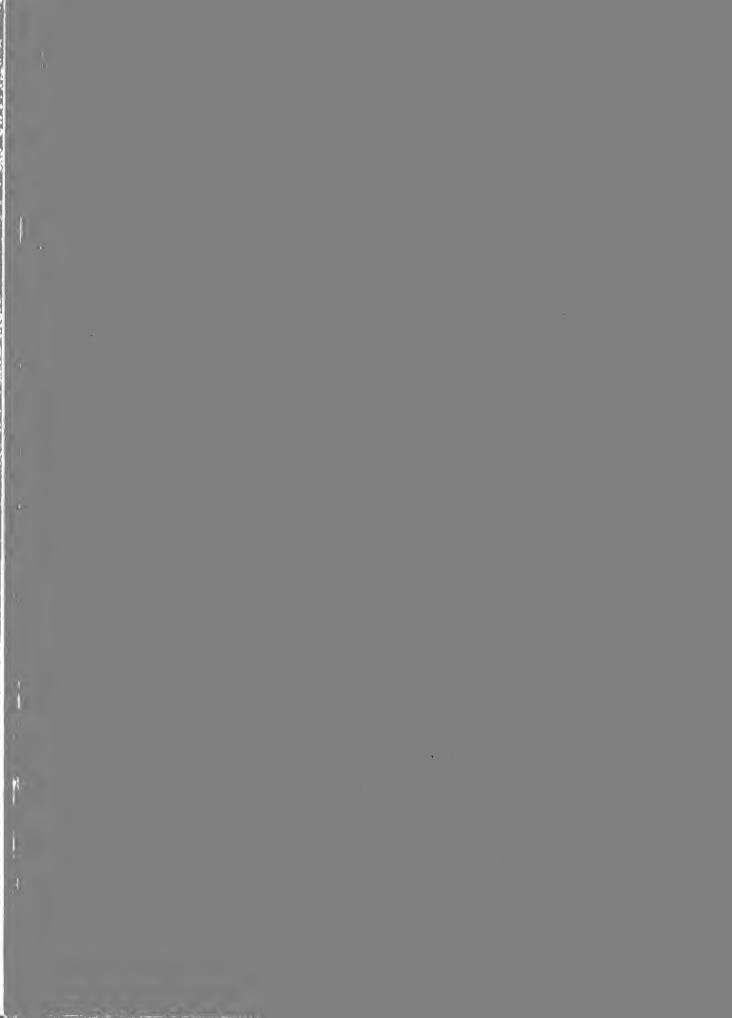
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The minus rettle feeders: it would be held Frida, Argust 3, at the College fariable, This rity of Illin in, it is announced by Frof. H. P. Rusk, head of the context of simulationals. Despite the poor season, some off the gains made by the some is stall rattle this year beat those that have been made by any dattle of suther the sit of the college experiment station during the past 20 years, it we sit. It results will be available to attle tattening investigations, on Table on it is problemated in the breeding and.



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Prof. ion of country's method is not a brown in Illinois, as to so confluence or regarding about that any to a note the indicate and the original and the control of a first and orthodox. We want to the control of a first and orthodox W. A. Tuelse, nonceives alief in old rightform to a first and Agric little, University of Illithris.

Army the series should, where commiss and a injury are a frequently weeler, can be tout to itself of indicated in the time and the sum of any according lander later on the cumprist are senerally related by the by the time the first mitter. egin to riper. The dituation in Illinois will not likely without itself a course there growers who are contricting tomate a for the front time learn that to in miof the business is just as an eiglised as specially for a rk t, and that they do not or courily limit will, The isen bilines. The literary on how it would in the r pi per.

Probabile of rank ry temether is on the increase in Illia deby we have a rise are reseming of rations offer a slott-fown of several parts, I seek a set is In addition many postions of morte profilling in a growing tower the first the this year on contract for a large eastern concern weigh is building a new factory. ir Micago. In the prokey or of 1965, some 7,650 for the more averaged to a refine Grand ry tomate or in this other .



Eight Mictakes Limit Profit Provibilitie On Pall :

Eight common errors are largely responsible for the warry, resty, see-legaling all to found emeng Illin in the million form chickens clenged at Catcher or each year, cour H. H. All, poultry extension resciplict at the Call of Agriculture, Ediversity of Illin is.

During the sum of menths beny form more net " y conscions" and consequently reglect the care of too birds when they may a dist the most. As a completed this needed, the pullets are so structed that they full to produce the number of so a sunt might ordinarily be expected of to a. Pills and consequently expected of to a pills and consequently expected of to a pills and consequently expected of to a pills and consequently produce the manufactors of fortexts to ready to ristokers one one of a fiftigal and consequently light and consequently executed as.

Among the common mintakes listed by Alpane: Figt, seed on, engty water troughs, dirty broader house without county, lice and mit a in the broader house, ald contaminated range, outdoor for dark a literatively, and color of such sigh airds allowed to a main in the files.

Probably the grot of arreading analysis are speed, of a sold eding is conserved, is followed to the the the of following to eding the plant of following pullste. The cotton following to be larger too, the conditions about an or encruated that it will not a lyop what some and contamination of the feed, but will also keep the condition. For well be administrative at the good-sized feeders, they profitting a conservation in a cotton of the mash.

Failure to move the field hope or incolors a country error. Unless the feeder is placed on a wire platform, the product around it will be a become a for certain table the politry manuse, and the chance of chicago inting appoint of the product are increased around.

Like the field, the water people be eret of Autrocommunication. Chambiness around the minking trough be extractly in out of. Ay odded a set to place the trough on a less, wire plate rmore, the the bines of most to complete in the mail covered by spilled water. Furth room, the trought most be fall desited on the against posting that there is along a plenty of water for the binds at all times.

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Const. Libbons In Full Group, Lette Schol Hedn

Illinois garden as whose opring paratishings with distance dating and a coult of the powers drouble from mid-April to mid-Tune will find Cline of or college contact addition to the full garden for from a low, broad and collins, suggests 3. I. Volver, all right under a circlist of the Callege of April 12 turn, Thivereity of Ullinois.

If the herdine corts, the narrow-hard determine here to a fixed terretor cortsplidly, a higher percentage of plants had out under flavorable conditions, the exception airly uniform to to size and shape and will pack will for adipment. The softless cariotics, the P. Toni, Se cial Parrow Had and Mibbili, have here here to to the W. of the Soli grant Agricultur, with grad were like.

For home use or local mark t, the dear Telegraph to Care We will like with

in repality for salads or clay then any nurses. It is type .

Seed of the main crop is uswally soon in a strol Illia is of at July 1, ad August 1 alentings will mature if the full as you in forward 1 and for since such a large to arrive too early. All prouting a careful he said when the contract arrigated, for soon results can be expected when and it is not exhibite.

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College. Experiment Station, and Extension Service

Jul: 15, 1134

Volume XVII

Croy Pr : c+ L licht An Impr v d Price Situation

Wit reductions in both or placery-overs and current production, Illinois formers could enjoy a more former bloggies itser on this fall that they have in re-cent years, cays R.C. Ross, accintuation of in farm monagement at the College of Agrimiltur, University of Illinois.

A summary of carry-ever as a Juli 1 - ows that Illimais farmers had less than half in man, corn and who has no out ghills be year at this time and about two-thirds as much as in 18%. What a reserve to this state is 12 per considers. than a year age.

Excepting promits into duma to the relation but a set 1934 were or power be then SI per cont of normal till, a un. This will be 3 per cont larger than the of

13% on a 10-p-r-cent small reasons. The ver, it is to early to fully estimate the probable chinch may damage, point the Reas.

Illin is vist restant that the Reas.

It is not also be a stimuted at 39, per cent of normal or clightle hand a let prom, he the case crop is likely to be also be per cent of the first and the second of the first year evenue.

Total drauth and click hard the period of the first production, and burley for developing, it is a resigned program as a much niduo i won ig .

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raply of ther fines oreps, it is tell tell.
Or pur duction for the country of l is als much below normal. Based rt, still period of years, orm will be 80 per cent of a real, all the store /* per aut. The er of side in , a nor r, l nor as 1 3 per cent above the fiv -year aver go.

We ther Holds Key To Outson Of Chine Bur Plague

If the worther turns try, minch bugs ray firstney between 30 and 40 per cent it. Illin is earn and, as ordine to estimate and by T. R. Flint, which encomologist it. Illin is State Found History Survey and of the College of Agriculture, Univertity if Illin is. Hence, we take the ordine to rest two or three weeks will hold the turns form to her a per sout of the errop. Whether or not the insect will be burdent and destructive next year argenda wien the westher between now and applies, Prof. Flint said.



Illinois Farmers Making Record Use of Electricity

In spite of the fact that agriculture is just emerging from two years of record low prices, Illinois farmers are using more electricity today than ever before, it is revealed by a rural electrification survey recently completed under the supervision of the College of Agriculture, University of Illinois.

Farmers who recently have secured electrical service for the first time far outnumber those who discontinued the service as a result of the depression, the survey showed. Furthermore, in general those who have discontinued the service made little use of it when they had it.

The survey covered 12 representative Illinois counties and was made as part of a CWA project.

On the basis of findings made in the curvey, 43,570 of the 14,495 forms in the state have electricity, while the remaining 170,327 would like to have it, according to E. W. Lehmann, head of the agricultural engineering department of the college. Although there are many formers who are not financially able to have electric service, all of those interviewed said they would like to have it. Thus, if they had some satisfactory means of financing the building of lines, purchasing the equipment and buying energy, they would invest in this type of improvement as well as in automobiles and tractors, Lehmann believes.

Of the 45,570 Illinois forms which have electricity, 69,330 are on power lines while 14,240 have home plants. Likewise, the survey liselesed that 8,960 of the total number have electrically operated water systems, and 5,690 have electric stoves. There are 4,870 mechanical refrigerators, but since there was no distinction made between the various types of mechanical refrigerators, the survey does not indicate the number that are electric or gas operated.

There is a greater interest in the use of electricity for refrigeration than for cooking on Illinois forms. This is no doubt caused by the fact that fuel for cooking can be obtained easily on most forms and a reasonably satisfactory means of cooking is already available.

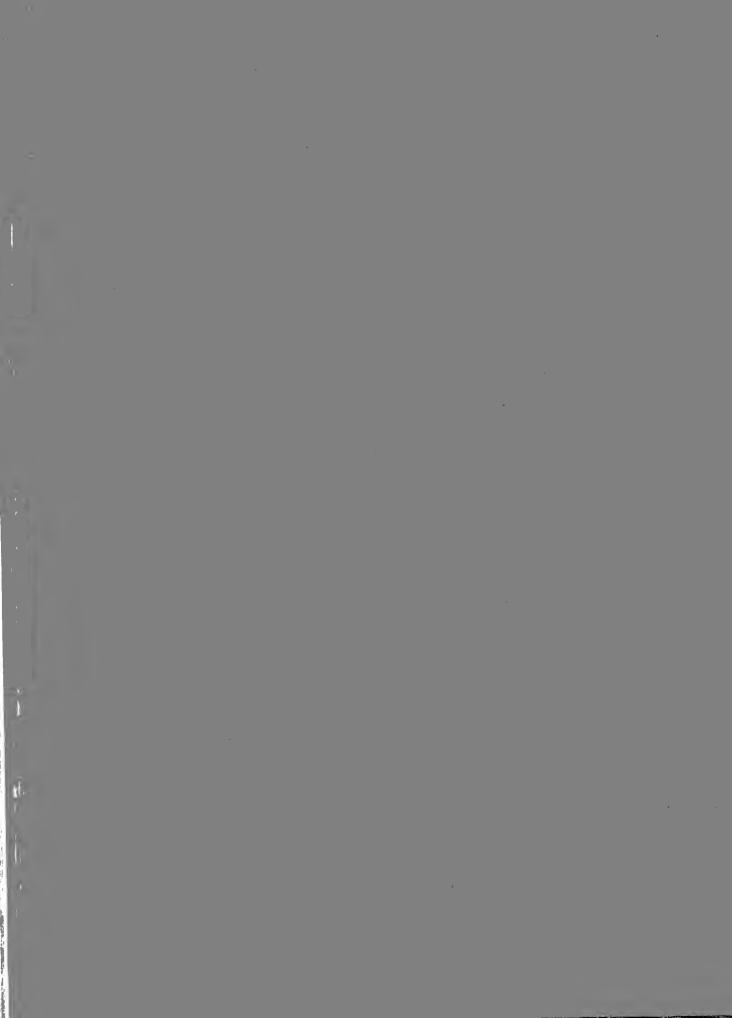
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Oats Sown With Alfalfa Lesson Damage From Erosion

Damage from dust storms which proved so devastating to young alfalfa seedings in sections of Illinois this sprine, can be practically eliminated if oots is sown as a nurse crop with the new alfalfa chedings this fall, cays C. H. Farnham, we sistant in soil experiment fields at the College of Agriculture, University of Illinois.

Largely as a result of the poor stands of forage caused by the drouth this spring and the provisions of the AAA programs in which some 125,000 or more Illinois farmers are cooperating, it is anticipated that an exceptionally large acreage of alfalfa will be seeded throughout the state during the next six weeks. An appreciable amount of these seedings will be on sandy or light wind-blown soils which are subject to wind erosion capable of ruining seedings made during the latter part of the summer.

Tests at the Oquawka soil experiment field, maintained in Henderson county by the U. of I. College of Agriculture, show that this damage may be largely done away with by the use of oats as a combination nurse and cover crop for fall-seeded alfalfa on sandy land, points out Farnham. Observations made at the Oquawka field this spring disclosed no damage to alfalfa seeded last fall where surrounded by good oats growth. However, a few feet away where no oats had grown the alfalfa was either badly damaged or entirely hilled by the wind-blown sand. In a larger unprotected area on the field, sand had drifted several inches doep, completely burying a strip of bluegrass.



Washer Plans Aid Apple Men Me t New Residue Likate

Illinois commercial apple growers may not need to buy new washing mechines, in spite of the more strict regulations placed on the amount of lead and arsenic resilue permitted on apples for interstate and international shipment, in the opinion of R. H. Reed, arricultural engineer at the College of Agriculture, University of Illinois.

Remodelling the apple washing machines now in use so that the chemical washing solutions may be heated to a temperature of 20 to 110 degrees Pahrenheit will materially increase the amount of residue removed, and in many cases will pliminate the necessity of buying a new washer, anys Reed. This heating can be accomplished with electric, but water or steam heating systems as described in a mimeographed publication written by Reed.

Washing applies has come to be regarded as an accepted part of the production and marketing program of many Illineir fruit growers. In past years a few growers washed their applies to improve the appearance of the fruit, but since tolerance limits have been placed on the amount of apray residue that may be present on fruit to be shipped in interestnee and international examples, the washing practice has become more rommon.

Brushes, aprays and oth reschanical mains, as well as a variety of chemicals and wetting agents have been used to increase the percentage of residue removed. How ver, in seasons and areas where particularly heavy approx applications have been required to combat fruit discusses and insects, many of the waching machines in use will not remove enough of the lead and errouse residues to meet present regulations. This problem brought about the development of the heating process.

Tests of the U. of I. Colline of Agriculture show that dix times as such residue remains on applica washed in solutions of 05 degrees temperature as sameins on those washed in the same type of manine at the degrees. Detailed information on installing the heating systems may be obtained by writing the department of agricultural engineers 3, Colline of Agricultura, University of Illinois, Urbana.

10 7 / Sees

Six Contests Schedul a To Settle Team Pulling Honor

Two out of Illinois! 7.27,00% perces will be acclaimed the champion pulling tour of the stor following six horse-pulling contests to be held during the months of August and Sept of r, it is announced by E. T. Robbine, livestock extension specificate at the College of Agriculture, University of Illinois.

The first of the contests will be staged during the state fair at Springfield on August 21 and 37. The next will be at 35. Joseph in Champanga county on August 23, and the third at Reseville in Warren county on August 31. Augusta in Hanceck county will be the site of the fourth contest on September 4, while the remaining two will be conducted at Sendwich in DeKalb county on September 5 and at Tuscola in Douglas on September 15. Teams from all of the surrounding and nearby counties are expected to be intered in the respective pulling contests.

A dynamometer owned by the U. of I. College of Agriculture and operated by asmbers of the agricultural extension service staff wall be used in tetrmining the pulling power of the terms taking part in the contesses. Competing terms will be divided into two classes, those with a combined weight of less than 3,000 pounds and terms weighing 3,000 pounds or more.

Last summer the 4,000-pound term owned by William Rhoads, of Springrield, but the state record in the class of heavy terms by exerting a gull of 3,005 pounds for 75 feet. This was equivalent to pulling five 14-inch object gutting furrous six inchester in stubble ground.

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olume WII

August 1 1984

Number 31

Trench Silo Mean's Of Conserving Shrinking Corn Crop

With Illinois' corn crop tonestened by the prolonged drouth as well as the ost seriou. Something infestation in half a century, many farmers of the state may pable to save the maximum amount of their corn by constructing trench silos, suggests. W. Ichmann, head of the agriculture, engineering department at the College of criculture. University of Illinois.

Reports indicate that the corn talks are beginning to dry up in some areas. fextreme heat and dry weather should continue, farmers will want to take immediate teps to conserve as much of their corn as possible in the form of silage. In such uses, mineographed instructions on digging tranch silos, published by the U. of I. olleg- of Agrenultur will be of considerable value.

A trace sile is merely a large ditch with the ends on an incline so that a sam or tracts. It be driven through it. Fractically all construction may be done the clip's representation of the expense is extremely small. The slightly loging siles are later and the off with a space.

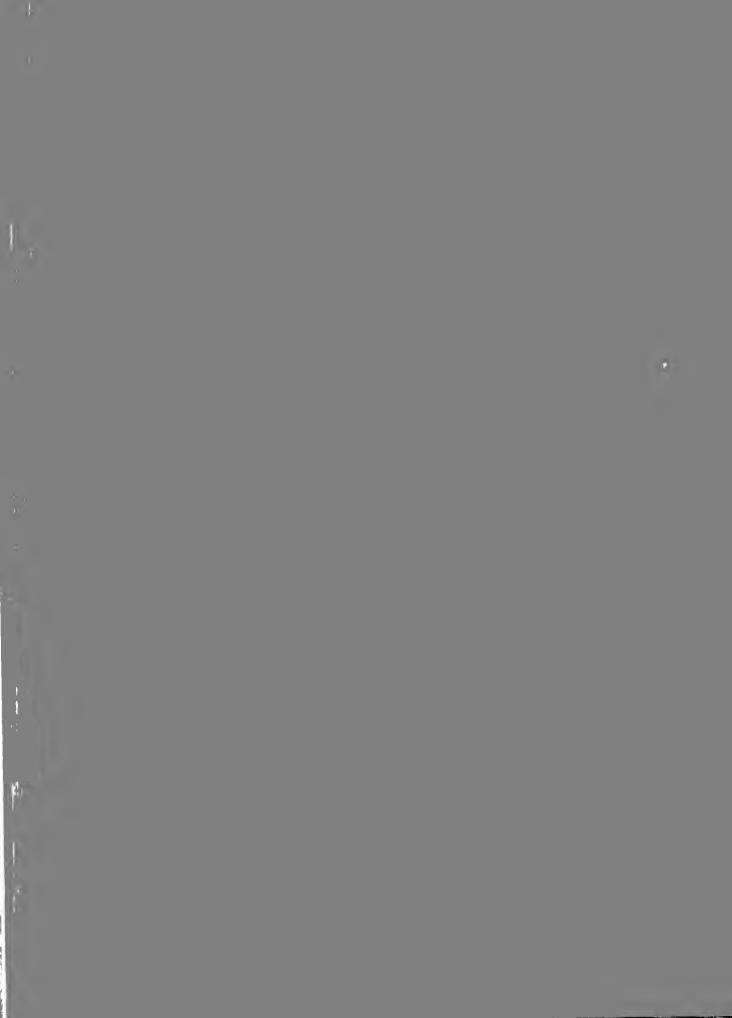
The sile of the treath will, of course depend upon the amount of livestock the fed from it and the condition of the allege at the time of cutting. A good-size reach sing is and if feet deep, 8 feet wide across the bottom of the trench and 10 to le feet wide across the bottom of the trench and 10 to le feet wide across the bottom of the trench and 10 to le feet wide across the bottom of the trench and 10 to le feet wide across the bottom of the trench and 10 to le feet wide across the bottom of the trench and 10 to le feet will be required to tore a ton of silege for feeding.

Selection of a site with good of there is important in constructing a trench ilo. A soil which is too sandy or one interest the water table is too high is not atisfactory. In objection against transportant is the accumulation of water when there is a reavy rainful. This can be overrome to a large extent by laying a drain under the transh, or perhaps the trench can be located so that the lower end opens onto a loce.

Because trench siles are not very deep, the silage does not pack much by its wn weight, and thus should be tramped by men, animals or a tractor during and after illing. It keeps best if overed with straw and then several inches of dirt to make rounced to shed water.

An experimental trench silo built in another state was filled with 115 tons of silage, and a shrinkage of about 1h per cent, or one-seventh, was noted. About half fithis was spoilage. Most of the spoilage occurred at the top, indicating that it is succerry to cover the silage well. When the silo is opened, the silage should be reoved from one on. and the silage taken from the entire end section each day so as to educe the danger of spoilage.

More detailed information relative to the construction of trench silos may be brained by writing the agricultural engineering department at the College of Agricultural viversity of Illineis, Urbana.



Page 2

Hard Demost 4: 184 - Vice des destats a fitt etc Loss

Corn struck by a hail storm such as visited several Illinois counties recently may not always turn out to be a complete loss, says G. H. Tungan, associate chief in prop production at the College of Agriculture, University of Illinois.

Much depends upon the severity of the storm and the stage of the corn at the time of the storm. Hail seldom removes all the blades, but more often splits and shreds the leaves to a greater or less degree. This type of injury is not so serious as complete blade removal.

Experiments conducted by the U. of I. College of Agriculture, in which the clades of corn plants were split as if hit by a il, showed only one-fourth the reduction in grain yields as compared to corn plants in which all the blades were removed, points out Dungan. This indicates that as long as a piece of green lear is manging on a plant, it is functioning in the direction of grain formation. For this reason, crop insurance adjustors usually like to wait as long as possible after a hail storm before appraising the annage. The gives the corn plants an opportunity to recover to the maximum extent.

furthermore, if the storm should strike before the plants are tosseled and if the growing points are not broken out, corn can recover to a surprising degree. The emerging tassel crings a one with it two or three blades which because of their newheld and excellent exposite to the sunlight are very efficient aids in grain formation. However, if the corn in fully lasseled at the time of the storm and the hail beats off the blades, there will be little or no growth of plant or ear theresiver, explains Dungan.

Plants take so, beans are tomatoes which even and out new growth from buds that have been dormant not soffere can out-in show a market improvement two or three weeks after a hail attens. Archael halling experiments with corn, however, show that it has much less capacity to survive a hail atoms.

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<u> Million instead Of Faddish Stres Best Frofit Makers</u>

Fig. .-winning livestock factions may come and go like feminine styles, but Illinois producers who strive in obtain the maximum returns from their next animals should select their breeding so the more along stilling lines, saws E. J. Robbins, livestock extension apecial it at the College of Agriculture, University of Illinois. Only farmers who raise the highest prices, regardless of the latest mode at the livestock shows, he says.

At present many cattle raisers are finding that the fashionable little buils teget calves that grow too slowly, points out Robbins. When ready for market those yearlings will weigh only 800 pounds, while comewnat coarser stock will tip the scales at half a ton. It is the larger yearlings that are making the most money because they agree hearly fit the needs and desires of the market. Larger sired will and many prittlemen in producing the larger, more desirable yearlings.

Likevise, early lamb producers are coming to realize that they need rams of pensiderable size, if they are to get the largest possible market returns. For this reason, many farmers are changing to the larger breaks of sheep. In the case of hogo, lowever, boars weighing considerably less that 1,000 gounds are more likely to fit the leeds of most producers, rather than the excessively huge sires seen at fairs and live-stock expositions.

Some breeds of livestock need more stretch while others need more compactness to supply sires for most familierds and flock. Thus the breeder which has loss stock long utility standards will render a practical service for the livestock in latry, ways Robbins.

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New Step. Taken To Raise wally (f Illinois Whest

A new drawe to furth a improve the quality of Illinois' wheat crop valued at an average of more than I million dollars annually is on, it is announced by J. C. jackleman, crops extension specialist of the College of Agriculture, University of Illinois.

As part of the work, 10,000 tuchels or seed wheat already have been signed agree a new cleaning service that has just been started in five soft winter wheat counties southeastern Illinois. It is estimated to the association of bushels of seed what the those tive counties may be showned before seeding time. The 17,10 suphels already signed will seed approximately 8,000 corps.

Approximately 37° soft red winter wheat growers attended measures which the extension service of the agricultural college recently held to loanch the wheat improvement program in Gallatin, White, Edwards, Wabach and Lawrence countries.

This territory was once recognized to producing some or the test quality soft winter wheat in the entire wint right tielt. In recent years, the very the increasing amount of garlie, cockle, cheat and other weed stells in the grain his lovered the quality and taxed growers with a new y proality in the form of price discount of from one to five cents a bushel.

It was also disclosed by lag to recent meetings that such of the soft winter theat in south-eastern Illinois is not indicated with the dericus discuss, whit, or stinking smat. In some cases it is no deviate to beyons are not nothing bids on the grain but are merely taking suplies and a foring to say to sall the wheat for the owning farmer for what it will bring.

Farmers are being urged to him their seel wheat run through a fan mill under heavy blast of hir and then treated with one of chemical dust treatments as a means of combatting the court.

The 11,700 busheld of recal was tithet already has been eight top for the pleaning service and any that cames in later will be any through special high powered an mills equipped to take out practically all the condition in seading shrunken theat kernels and from 35 to 35 servent of the gaze of some wild this could be

As a further step in the wheat improvement graginal, growers in the five swittles will be encour ged to reint improved varieties althoughed obtained aroundslightering farmers having superior attacks.

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Short Feach Joop Doug Not Eliminate Cover Grop News

Although Illinois will market only about 300 ture of preches this gover up compared site a normal prop of some 1,000 cars, greads should not neglect the practice of supplying a cover crop this fall for some improvement and encoding prevention purposes, sugs M. J. Porcey, chief in pomology at the College of Apriculture, University of Illinois.

Where the soil has been cultivated around the trees, the fartility of the rehard is likely to suffer from soil erosion whether the present arou is large or small. Likewise, adding humus to the soil in the form of green amount is always a good way to improve the future productivity of the trees, points out Dorney.

It is often surprising the amount of cover crop growth that can be produced etween older trees during fever all ceasons when the lower branch and not too local the ground. The chacess of the cover crop will depend, of court, the amount of minfull following the decime. Fow yer, when the seeding can be worked efter a fin, covyess will make as promising of the concerns any.

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The Extension Messenger

COLLEGE OF ACRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College; Experiment Station, and Extension Service

'olume XVII

August 8, 1934

Number 32

Position Of Soyteans Strengthenes By J. of I. Tests

Experiments which the College of Agriculture, University of Elimois has connected during the past year on the lower cost production of higher quality beef were oncluded at the recent annual cattle recent meeting, with the best lot of steers returning the cents a tuckel profit for the corn that we bused. Approximately 700 farmers from Illinois and heightoring states attended the meeting to hear the results mich Prof. H. F. Rusk, head of the department of minal numbering, and Prof. R. R. Mapp, his accordate, and obtained in a series of eight experiments with 200 Pexast anheads steers.

Out. Inding in the results was too demonstrated parit of soybean off, an allinois-grown protein supplement, in comparison with the more common pottonised meal for fattening beef cuttle. Fusture condices which the college started several years ago also yielded striking results to time when farmers are puttle, sore land back into the actual and makes then ever become

Four results which cattle feeters had obtained last year and in previous seasons has liven rise to the feet that soyiman oil meet was to blame, but the experiments this year, couled with these of previous seasons, indicate that the Thlinois-grown supplement is equal to cottons at meal for producing quality beef at low cost. The results further fortify the position of soyleans, which are now being grown on an increasing series as a result of the last programs and of a rose shifts. Illinois is the leading sourcean producing state.

The three best lots of cettle in the experiment were steers that had been fed royer a oil meet as the protein supplement to their rations. The sop lot of steers, which paid returns at the rate of all counts a bushel for the corn that was eaten, was so outst ading that the approisal committee of packer buyers and commission men called it as wood a lot of rearlings as you will see."

These steers were carried on bluegrass pasture from December 22 until April 13 and then moved to dry lots to finish out the feeding period of 220 days. During the ntire feeding period their average daily feed consumption was 12.4 pounds of shelled corn, 1.5 pounds of soylean out meal, 5 pounds on corn sillage and 1.5 gounds of alfalfa ay a nead. They were valued at \$8.50 a hundredweight in the lot on the college farm of \$9.25 on the Unicago market. They gained an average of 2.36 pounds a head a day for the 120 tays on feel.

To aske the outstanding minture in the pasture studies which the college started several rears ago has been one including 1) pounds of brond grass an acre, 10 rounds of classrace, 7 hounds of red too, and 3 hounds of white clover. Some volunteen west clover came up in the rieli. A test plot that was harvested in this pasture rielded at the rate of 1,120 pounds of feed reduced to a 15 per cent moisture basis, or nor than 2 tons an acre. Fifteen beef heiters pastured on the 10 acres for 56 days this spring averaged 2.48 pounds a me i daily gain.

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Strong Soil Will Save Wreat Crop From Chirch Buss

Wheat production, which has returned Illinois farmers as much as 20 to 30 million dollars in recent, more normal years, need not be abandoned because of the heavy chinch bug infestation this year and the threat of iamage in 1935, in the cyiniof the State Natural History Survey and the agronomy department at the Collage of Agriculture, University of Illinois.

If wheat that is sected and fall is put on the more productive soils and the season is favorable, it will yield fair to good crops even under heavy infestations, it is said. This is borne out by observations hade at many points curing chinch bug on the breaks in the past and from a check on many Illinois farms in recent weeks. For ohe libe taken, however, to have a well-prepared seed bed, to seed a variety adapted to the locality and to plant late enough to avoid the Hessian fly.

If winter wheat, spring wheat, rye and tarley were entirely discontinued and year in any area of the state and all the small grain acreage planted to oats, the latter crop would be heavily infested. Should weather conditions prove favorable, the chinch bugs would destroy the oats. In many sections of Illinois this year the oats were just as heavily infested as the wheat fields.

For the coming serson, however, it would seem a poor practice to sow wint a wheat except on strong land. On worn soils the crop is almost sure to be heavily infested and more or less damaged by the chinch bugs. Furthermore, if the chinch bug threat continues, it would be inadvisable to now spring wheat or barley in areas where there is a heavy infestation, since these crops are especially susceptible to chinc. bug attack.

In the northeastern part of the state, including Will, Kendall, Grundy, LaSalle and adjoining counties, the winter wheat during the past season was largely willed by the over-wintering bugs. This would not have occurred in a normal year with anything like an average spring rainfall. On the whole, in all other sections of the state the farmer planting winter wheat on strong ground has and far better returns from this acreage than from other small grains.

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Drouth Reveals Terraces Ac Conservers Of Moisture

Record-breaking drouth such as has extended over a large portion of Illino's this summer has demonstrated a new benefit of terracing sloping farm land-that of ourserving the limited amount of rainfall, points out E. W. Lebmann, head of the agricultural engineering department at the College of Agriculture, University of Illinois.

Observations made in Bond county, Illinois, an former years of deficient rain-lall have revealed that terracing and contour farming approved corn yields as much as the bushels to the acre. Like investigations in other areas and states have also displosed the water conservation value of terracing. Meretofore, many Illinois farmers have thought of terracing mainly as a method of preventing soil erosion, especially in seasons of heavy rainfall. Now, however, they are beginning to realize that these same terraces have a value equally as great in years when there is only a small amount of rain.

Where terraces are constructed or where planting is done on the contour, a sarge part of the rain is held where it falls. The water sonks into the ground where it builds up reserve supplies that help carry crops through periods of long dry spells. Sen too, the terraces catch and hold water as it runs off higher ground.

Reports from other states readily confirm the terrace observations and allinois. In some areas therefold lend has held back and absorbed from 3 to 200 per tent more rain water than unterraced slopes.

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Spreading Waste Straw Increases Corn Crop Returns

Whatever straw they have this year probably will be grized by most farmers, at any that might otherwise go to waste can be made to pay handsome returns by spreading it over land where sweet clover green manure crops are to be ploued down, it is resorted by A. L. Lang, associate chief in soil experiment fields at the College of griculture, University of Illinois. If it were not for the drouth and chinch bugs, here probably would be thousands of tons of straw go to waste this year. Experiments are now proved that it has a high potential value of used on Illinois! million acres is sweet clover for soil improvement.

At the Dixon experiment field in Lee county operated by the U. of I. Collect Agriculture, stray when applied to sweet clover ground improved the following cornields from 75 to Ul bushels an acre, or a gain of mine bushels as an average for the 4st three years, emplains Lang. Likewise at the Clayton field in Adams county, the rowth of corn was improved when straw was appead over sweet clover, although no definite acck on yields has been secured as yet.

Other studies at the Clayton to the plots point to the floot that burning strong strong strong after the small grain crop has been harvested with a combine will complete vestroy any young clover. Then too, it is found that burning straw on sweet clover 1 and and to reduce the returns from the subsceeding form rop.

The improved returns from spreading straw over fields corrying a green manuarop may be accounted for by three physical and chemical reactions, says Lang. In this rest place, the straw itself furnishes organic matter for the soulcan necessary inglescent to give the proper balance of massture, temperature and plant food elements.

Furthermore, a heavy growth of goven manure legume naterial when plowed down lone often releases an excess of nitrogen for the succeeding crop. Strong as a highly arbonacious naterial extends the period over which the nitrogen may become available ad thus prevents excess loss by leaching. This makes a better tatance between soil upply and plant demands.

It is also believed that the straw may furnish the heressary svailable potent at often becomes deficient during the rapid-growing season of the corn plant, esherally on high lime soils and on ground being heavily cropped with sweet clover. This particularly true on the lighter-colored soils.

-11-

Illinois Elms Are Not Attacked By Dutch Ela Dizease

Illinois elm trees are not dying this year because of the Dutch elm disease, it with standing widespread and alarming reports to the contrary, according to a state-ont issued at the College of Agriculture, University of Illinois, by L. R. Tehon, it is to the State Natural History Survey. Dr. Tehon, who has been directing an investigation of elm diseases in Illinois for the past four years, says that to date it a single case of Dutch elm disease has been located in the state.

Root and trunk infections by fungi such as Xylaria or the lack of sufficient ater are probably responsible for the apparently dying condition of many elm trees in alinois this summer. The prolonged drouth and the series of dry years have tended to move moisture from the upper soil and to lower the water table beyond reach of the pot systems. This condition is noted by the browning of foliage over the entire tree.

Sudden wilting and death of wins in the central at two is usually the result attacks by one or the other of two fungi, Verticillian or Gepualosporium, tota of the are relatively common parabites of the elm, explains Tehon. They produce symptoms who like those of the Dutch elm disease.

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COLLEGE OF AGRICULTURE—UNIVERSITY OF JULINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College; Experiment Station, and Extension Service

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Number 33

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Illing room, in the light to 1338 used approximately in runos o tame hay seed to plant in runos of the state, in the history of the

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Salus Save Corn di me de beat de la la la

In spite of the damage from chinon sugge and frouth this sugger, Illinois samers will be the to save such of their corn crop by making it into silage, says [7. B. Nevens, associate chief of dairy rattle feeding at the College of Agriculture, "hiv raity of Illinois.

Immeture form that is inving up to source of the lack of moisture and chinch ug injury will make a fair grade of siluge, although its feeding value will not be quite equal to that made from more mature form. Furthermore, chinch bugs do not seriously affect the polytebility of siluge.

To insure success to making silege from norm that is drying up, explains Movens, the plant must have a moistur content of at least 65 percent, and past results are obtained when the corn contains 70 per cent moisture. If it is less tann 65 per cent, water must be added.

To determine the moisture content of the corn, six or eight representative stalks should be but into 1 to 1½-inch lengths. A three or your pound sample is then reighed but accurately and heated in an oven until it censes to lose weight. This will isually require three to five hours at a temperature below that which will other paper. Liter the moisture has been driven out of the corn sample, it is reweighed.

The loss in weight of the sample, divided by the original weight before being neated and multiplied by los will give the percentage of moretone in the cornstellar of the moisture is higher than on per cent the corn will keep in the billo, provided other conditions are good. In the moisture content is 60 per cent, 80 gallons, or off pounds, of water chould be added to each ton of corn put in the size. If the construction content is 55 per cent, then 120 gallons or water should be as fed to the siluge. For each drop of 5 per cent in the moisture of the corn being enabled, an extra 40 gallons of water is added to each ton.

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New Pullstin Is Aid To Illiances Fam. Adjustments

With some 125,000 Illinois farmers adjusting their operations this year as cooperators in the government's AAA corn-hog will wheat programs, an interesting bulletin just issued by the College of Agriculture, University of Illinois, should prive anusually timely and helpful in making these changes.

usually timely and helpful in making these changes.

Originally written in 1929 under the title of "Organizing the Casa Best Farm for Profitable Production," the publication was revised this sugmer by F. C. M. Came, chief of the college's farm management division, and R. H. Wilson, associate whief, to bring it up to ante in every respect. The practices, yis and another and expenses of hundreds of Illinois farms have been analyzed in determining the most profitable factors in form accament.

For example, a study of 67 forms in Wood. ord, NoLean, Tarewell and Livingston counties revealed that during the five years of 1928 to 1932, the farm with the highest carnings agic an average of 5.98 per cent a year on an average investment of \$49,247. This income was the result of years of definite effort by the operator to put the fam: on an efficient production basis.

The least profitable farm in the group, nowever, lacked \$565, or 1.28 per cent, of making any return on the investment after operating expenses were poid. This difference in the two forms amounts to 8.36 per cent, or \$4,442 a year on an investment of \$33,781, which was the average investment of \$11 the farms in the study.

That better earnings are realized year after year by done forms in a community than other forms operated under the same natural and scoromic conditions, is a matter of common observation, point out the authors. But the causes for these action need incomes are not so generally understood, and it was for this reason that the studies were made and the bulletin published. Copies of Bulletin 329, "Organising the Corn Bult farm for Profitable Production," may be obtained from county form advisors or by writing direct to the Colle c of Agriculture, University of Illinois, Urbane.

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Augu t . 10 August

Number 31

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The state consister, it is pointed but, we not buy on seal the seed. Acting in some tien with lead and accepts on two posts will be emedian of information
fathern terms who have seed to sell on two sout wish to buy it, thereby tending to
consider to ble supplies. Letter, from a what was not have emough seed for their needs
and is not not result throse, will be seen so egysper their ants with country
and initial, who in turn will notify the attate committee.

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Can Sow Alfalfa, Red Clover Mon For 1875 Cron

With most of the 1934 seedings of tone boy killed out by the drouts, Illinois farmers who have not already taken steps to realise fluis loss by summer scedings of alfalfa or red clover, should do no immediately, supports 2. I. Hackleman, chief in crops extension at the College of Agriculture, University of Illinois.

Experiments have shown that for b at roults alfalfa should by seeded during

Experiments have shown that for blot moult alfalfa should be seeded buring the latter part of July or early August, but this year it was too dry pear much of the tate to get a good stand at that time. However, which recent reas have supplied out-ficient moisture and if favored by a comparatively late fall, there is still a good shance for alfalfa sown immediately to come through he winter and make a grop next summer.

That elfalfa deserved its title on the presser bay plant in Illinois is attested by the way it came through the hot, impression in such of the state the last two years. Although it represents only 16 per cent of the same hay sorrage of the state, it will produce amproximately 4 per cent of all hay harvested in Illinois in 1804.

However, when seeding alfalfa for 1/3/2 harvout, Illinois cambre should be a in wind certain fundamental principles in the projection of this legume, coints out Hackleman.

First, the soil on which it is to be grown should be relatively sweet; it should test medium to strong in available phosphomor, and should be well drained.

likewise, the seed bed should be well puly rized on the curface and bormact in the subsurface. A loose, cloidy coil take a voor seed bed for any him seeding.

As another consideration, if receible, the grower chould use a strain of seed that is comparatively winter hardy. Northern and northweatern grown seed is usually considered more hardy than that produced in the west and southwest. But if unable to obtain the a hardy types, that from the sentral west is generally hardy enough to withstend at least two or three winters. Of course, if the field has not reduced a scod crop of alfalfs or sweet clover in the year, the need should be inscoulated.

If these same precaution, are taken, August-work invoictors should also come through the winter and make a good hap eroy near addien, is in this

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<u> Bilago Loss Often Soved En Early Retales</u>

Expair parts for enailing, outtors that tall fall Illinois' 20,000 tiles one to more difficult to obtain this fell, particularly for the older models that are ingling out of fance corners for the first time in several seasons, have R. H. Evid, agricultural engineer at the College of Agricultural engineer at the College of Agricultural engineer.

Manufacturers will, of course, make on a effort to supply ground a pair corvice for any machine in use, but farmers should not run a needless rick by writing until the last minute to order a part that may have to be and set the rectory.

The poor condition of the corm as a result of the estreme drouth and he washingh bug infectation, together with the east that range fields may rusher additional sames is left too long, makes it more important than over to have the silo-filling equipment ready on time.

An experience of an Illinois far er several poors ago might prove diseastrous, if repeated this fall. He failed to examine his outter until the night before the area was to fill his cile. Several broken parts were discovered and it was two were referred the machine was remained and filling could be started.

The cost of the parts required for the machine and the labor involved in aking the remains were the came as if the work had been accordated a month partial, yet the delay caused a material decrease in the colon of such ten of silago made.



Illinois Froduces Most of World's Redtop Seed

While most people think of bluegrass as the Major component of all lawns and pastures, the annual production and consumption of redtop seed in the United States has been nearly equal to that of the famed Mentucky product.

Furthermore, practically of per cent of the world's supply of redtop seed and 95 per cent of the total redtop seed in this country is produced in a dozen counties in southern Illinois.

These and other interesting facts are disclosed in bulletin just issued by the College of Agriculture, University of Illinois, under the title of "Production and Marketing of Redtop." Four specialists cooperated in preparing this attractive publication, the authors being W. L. Eurlison, head of the department of agronomy; C. L. Stewart and R. C. Ross, of the department of agricultural economics, and C. L. Whalin, formerly in the department of agricultural economics.

The concentration of redtor seed production in Marion, Wagne, Clay, Richland, Edwards, Jasper, Fayette, Clinton, Jelferson, White, Wabach and Lawrence counties—all in southern Illinois—And seen due to a cashination of economic factors, favorable climate and soils not so well dapted to other close.

During the lister period of like-1935 approximately 200,000 acres of redtongere harvested annually for seed, with average yields of 54 powers to the acres. In the past three years, however, the threshing of redtop has declined largely due to the loss in market value. Priced of redtop seed fall to the loss of 3.4 cents a bound in 1933 as compared to the high market of 23 cents a pound in 1935 and 1925, and the average of 13.3 cents during 19.3-1933.

Copies of Bulletin 404, "Traduction and Marketing of Redtop," may be obtained from county farm advicers or by writing direct to the College of Agriculture, Thiversity of Illinois, Urbana.

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Che Good Cow Is As Profitable At 467 Culls

Many Illinois deirgoen are, figuratively, mileting 42% down of low producing ability when one good producer would give them the same profit above feed socta, if records of individual down on test in the Ogle County Deiry Herd Improvement Association can be considered as typical, says J. G. Cash, dairy extension specialist at the College of Agriculture, University of Illinois.

This is revealed in a summary of production figures kept by Oglo county dairymen which shows that there were 20 cows in the especiation last year that everaged only 107 pounds of butterfat and returned an everage of only 13 cents a head above their feed costs. Such fat production is equivalent to the everage for all cows in the United States. On the other hand, there were 19 costs on test that produced on everage of 57% gounds of fat during the year and returned \$76.14 a head above feed costs. Thus it would have taken 425 cowe like those in the low-producing group to return as much profit above feed costs as one cow in the high-producing group.

Furthermore, the low-producing cows, and there are thousands of them on farms in Illinois, are daily adding to the burdensous wilk surplus. They are atcadily breaking down the market prices of both milk and butterfat without paying their bwners even for the labor and feed they require.

Examples like this one, points out Cash, illustrate the value of cos-testing work to the dairy industry. Only by being members of a dairy hard improvement association can famours discover which of their cows are returning only a few cents a tear above feed costs and which ones may be netting as such as \$75.14 a head.

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COLLEGE OF AGRICULTURE UNIVERSITY OF LLLINOIS

Timely Notes for Farm Advisers and others from the Agmoultural College, Experiment Station, and Extension Service

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If the corevent time second so rellower is all people, Illinois would not experience the retainstic the instance that a second the too often in this state. ongro Dr. Gr., .



One Acro Of Rese Will Solve Opening Pic Troubles

An agree of my sown between the first onlitwentical of levels bereill colvethe major troubles Illinois fermers have in relained early coming pige, in the colmina of W. E. Cervell, chief in swime husbandry at the College of Africulture, endoughts of Illinois.

The chief difficulty that many produce as here in hendling early pige could from the fact that no quarters eval from the bounded of a comimals are equilable for the miss soon ofter the comits in February on early March. As a result remark and filth-borne infections each as nearestic enterests at the original orders, that they have little chance of adding rapid, provides a proof.

If a clean pasture is provided in a field here hope have not been grand in recent years, the sow and her little can be healed to this "new" pround where the bigs can grow without the handicur of cours and discuss parts.

On the University of Illinois is to mean Vestme, more avoided in early fell will usually develop satisfactorily and be really to areas by the firm on the sollowing March. The fell growth provides for early quasing, while the early spring growth will be ready to supply forage offer the off abouth has been eaten. Handled in this manner, an acre of type has provided torse for converte has been appeared their mothers from the tipe the eigh begin to set until they are sone.

It is customer; at the university fame to attach the now at the rate of leasures and litters to the norm of first, but by the last of Sharh has medial support 16 to 18 sour and litters to the norm.

The mystern by depended on to arrow in the mail the will be or heat of April, of which the the olf-like or elector justum is then the for heat arosing. If moisture conditions are might, the same devot ditology was then be presented only planted to corn, or in an uncoverable reason it can unwelly be put in shown in time to plant to sewbeams or eiter our .

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Cattle Fot Injured By Winte Buy Inscated Ciloge

Prevalent as chinch buy have been this sour or in some 70 to 20 Illinois counties, the insects will not affect the public of the silege made from indected sorn, according to T. F. Flint, chief enterglogies of the State Petural History and the College of Agriculture, University of Illinois.

Siloge made from heavily-infeated compatable a pleasing stationg chinch-bus odor for three or four media, but this will eventually disappear, it is wold.

During former chinch buy attacks, particularly the cutbreak in southwestern Illinois in 1910-1913, a large number of siles were filled with corn infected with the insects. In many cases the corn was so covered with bugs that the siley had the size-agreeable chinch-bug odor, using it almost impossible to remain in the siles for now than a short time while they were being filled. After the silege had settled for three or four weeks, practically all of the chinch-buy odor encord away, the meaning odor being the same as ordinary silege.

Then, was no question but what this side, had a lower nutritive value them side go node from corn that had not been injured by clinch but, but it are nothing raten by the cattle during the following sint rapidly no property injurious $x \in \mathbb{R}^n$.

"So for an our observations to," more Plint, "the deline and dark not be light such silege and to far as we have been able to lead, no insurious affects have because from feeding such a torial to within many or been cattle. If i, or come, possible that sow injury might occur, but this makes inaccorded in light of the experiences of many Illinois formers."

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Howard is limitable to the control tip the more of ith to the life how before at input man, it was a terminate to the character is a control to remain our Research to the control of the

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Book Whot For Court Sw Court Can b St Dieta

With the probability of enother beach burds of straight in the summation present language winter billing, Illinois servers the best and only those veriets a of wheat this fell that have proved the best their massective parts of the gets. says G. H. Durgen, associate chief in error production of the College of Agriculture, University of Illinois.

We receive a variation was pleased on strong event, should time indicate that fair should piells can be attained in mains of a first law actuals.

In the central part of the at te, origin to Tongra, Illinois Progra, this year expin descriptated its objlity to yield well. Illi which is a soft ment of considerable winter hardiness, experior grain to lite to high wielding a control of the Paris, type law law has been entired as at each to central Illinois and a variety that can consider ith the law to have most on. Illinois Program has done this for lightly are in that in central Illinois.

At the experiment fills were Delab in word, on Itlinois, five there waristing the low in front with both reversed 100 towns also not the exact. They include Icased, Illinois also then I t, I be a figure on Elican season Pedigree. These world we other attentions for Two controls in also a large of the regents.

On the Albanham experiment dielt in outbre tone Illandie, the motor of winter wheat there the post admited, and have the leaders as it is include Falcation Makeb, Illinois Selection 1/1, Michigen A.b.n, Religious of Falbic. In the collection I is the only variety not in the collection.

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The Extension Messenger

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Number 36

Torn-How Thork In Illinoi, I - \$1, ',000 Wank

Figure rower of Illinsia terms, has been impressed by more than exmillion follow in the rest of as a roult of AAA corn-hog benefit payments, it is still the cold to as a roult of AAA corn-hog benefit payments, it is still to be a local to the fillinsis. Furthermore, within the next few we so the total in benefit about the 14,000 corn-hog contract signers in this out to have been accorded \$17, ...

The first she as to be relieved by Illinois Targers cooperating in the government's cornelog alignment or grow began to enjoy the first of July and by the hidle of August the benefit payments engregated \$4.7,71 - Since then checks have been it talents to repilly that on apeto-date to the council be been maded. It has believed, have or, that the total charge to coival? Illinois formers prior to September when all over the million is library.

Present resolute, it is point in the resent only about 6 per cent of the hearly \$17, 16,000 to be received as the first benefit payments to corn hog contract light rein Illinois, and of thich will be win by early of them. Approximately \$15, , will slow be received by Illinois party beauty after November 15, when the second benefit show a became payable. It think we saw the recent totalling around \$3,07,000, less look afternists tive over respectively be set to cooperators in this

tat with February D., lone

According to the late to will table righter, Word county deads the first in fer it a parents a coin during to August 17 with a total of \$4.777. Headerson county area aggregating \$4], do, while other counties that have secure item \$60.015; DeWitt, \$30,236; Till, \$7,740; Leven, \$17,740; Magon, \$22,884, and look, \$7,740; Leven, \$22,884, and look, \$7,740; Leven, \$22,884, and

Corn-hos checks are being alled out of Washington at the rate of mearly wo million dellars a day to contract signers in all of the 4 states, it is said. By write in tall disturbances by the AAA corn-ing section approximated \$45,550,000, recount third of the total first install site of some \$133,000,000 to be distributed

cristers of the 1 74 allustment contract.

From it-August Iowa is mers had provided \$8,142,490 to head the list of states in total bounds money so far, while represents to other mid-vestern states included: is our, \$4,447,557; Chic, \$4,440,770; Metracka, \$5,796,950; Minnesota, \$2,775,426; Indicar, \$7,74, 87, and Wisconsin, \$1,665,870.



Court In Wheat Reduced Pt Either Cr Two Processes

In their efforts to protect their 1955 wheat crop from serious injury by clinking smut, or bunt disease. Illinois farmers have a choice of two effective chemical seed treatments—copper carbonate or Geresan—either of which will be a profitable precaution this fall, says Benjamin Koehler, crop pathologist at the College of Agriculture, University of Illinois.

The copper carbonate may be purchased in either full strength or diluted forms, but for Illinois conditions the latter containing 18 to 46 per cent copper has been found satisfactory. If the grain is not discolored and does not have on odor, two ounces of copper carbonate to each bushel or meed is recommended. However, if the sheat is discolored and has a foul, smutty odor, then do to jounces should be used.

If Ceresan is used, the directions accompanying the compound should be followed. The materials and seed are mixed togeth a in a tight mixing machine, similar to that used in treating seed corn, until all a smale have been covered by the movdered chemical.

When comparing copper carbonate and Terroran, it is found that each less cortain adventages over the other. In the matter is iscage, there is no danger of darageing the rain by an overdose of copper carbonat, but using more then one-halt sauce of Certain to the bushel is injurious. Furthermore, wheat treated with copper carbonate may be stored in a dry place indefinit by authout deterioration, while Terroran causes noticeable damage to the wheat garmer't new week's time.

Ceresan, however, has the advantage of not elegging the cylinders of the sheat drill as often happens when whent treated with cooper carbonate is allowed to remain in the drill overnight in domp weather. Then too, Cereban does not require as thorough an application as copper carbonate because it acts to some extent as a gas as well as a contact disinfectant.

- F .

Cow Families Responsible For Bost Dairy Herds

One or two foundation cover are often in appoint to many of the soul outstanding of the 1,026 h-rds in Illinois delign improvement associations at the recent
time, according to 0. S. Rhode, chief in dainy husbandry extension at the Colb g of
Agriculture, University of Illinois.

These cows, orginally selected for their efficient will and buttorist eroduction, have become the dams of what he madewn as "cow families." Their describers,
grandoughters and great-granddaughters have provid as efficient producers as the
foundation cows and have been retained in the highs from generation to generation until
now they make up the major portion of the better being herds of the state. Gradually
they are speciating the highly desirable influence of the original foundation covs.

Too much cannot be said regarding the importance of the herd sire, points put Rhode, but at the same time it should be recognized that the dam contributes as much to the offspring as does the sire. The bull, if he has the ability to transmit high productivity to his daughters, will steadily increase the officiency of the herd. Hewever, if high-producing dams are also used in the breeding program, the pre-mass is such more rapid. The wise selection of both sires and dams of heifers for herd replacement offers a great opportunity for advancement for the average dairywan.

An example of an outstanding cow family as found in a herd in Kane county dairy improvement association No. 2. Pearl Burge DeKol Beets is the foundation cow and during five consecutive lactation periods she produced an average of 61. Feoundation butterfat annually. Of her daughters, one produced 56. Sepounds of fat in a great time, while two others have equivalent records. One granddaughter produced ..., pounds of lat as a five-year-old, and another a 4.0 pounds. Three great-grandburghters have records that are equally as good, all of which contribute to the success. the herd.



Now Is Time To Begin Controlling Poultry Pests

Before Illinois farmers begin housing their more than at million chickens for fall and winter production, it will be decidedly profitable to thoroughly clean and treat the poultry buildings for lice, mites and other parasitic insects, suggests M. D. Farrar, entomologist of the State Hatural History Survey.

Unless effective control measures are taken at this time, flocks often become so heavily infested with these insect pasts that they become unthrifty, any areduction declines and thousands of dollars in poultry profits are lost by producers.

Some of the more economical and effective oils to control wites, bed bugs and fleas in the poultry house are precisely, because and wasted creak case oil, applied with a brush or emulsified with soop and water and apprayed on the incide of the building. Dormant tree apray equisions mixed to the rate of four or five calleng in 100 gallons of water are also efficient roultry insect destroyers, points out Farrar in a report to the College of Agriculture, University of Illinois.

Poultry like spend their entire lives on the birds and thus must be controlled by treating the fowls. For this a good grade of codium fluoride is communical. Each bird is dusted individually by applying a pinch of codium fluoride under each wing and around the vent, roughing the faathers to allow the powder to sift into the plurmage, or the birds must be dipped in a solution of one conce of codium fluoride in one gallon of water.

Where it is impractical to handle each bird, pointing the roosts with 46-per-cent nicotine sulphate is recommended. A line of the disinfectant about one-fourth inch wide is applied along the roosts just before the birds ratire. The nicotine fumes filter through the birds feathers, hilling the list. This treatment should be repeated in 10 to 14 days as it loss not hill the aggs. All hams or white-wash should be removed from the roost before the nicotine sulphate as manifed.

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New Gircular To Aid Firmers But Tractor Emense

Whether the owners of approximately 76, or tractors on Illinois farms derive the maximum service from their machines depends largely on the care exercised in their operation and maintenance, points out E. I. Showl, author of a circular on "Fractor Repair and Maintenance", just issued by the College of Agriculture, University of Illinois.

As a result of proper care and maintenance, a general-purpose tractor at the College of Agriculture recently completed nine and a half general service at an average repair cost of only \$50.37 a mean. During that time it completed result of 0.000 hours of general farm work, end it was not until after the rired five of a half years that any major repairs were necessary. The tractor is still good for several years of work and will not need to be junked until the hour-cost of our retion exceeds that of the newer and better tractors now being made.

It is to aid Illinois tractor owners in helding flown maintenance costs and to help them do some of their own repair more that the new circular has been ampared. The publication includes 48 pages of instructions dealing with common tractor from less and their remedy, such as the grinding of valves, adjusting the comburator, wheching the ignition parts, repair of the cooling system, power transmission problems, labracation suggestions and a discussion of types of tractor fuels. Well illustrated and thoroughly indexed, the circular provides a practical handbook for tractor owners. Dopies of Circular 485, "Tractor Remain and Maintenance", may be obtained that countries advisers or by writing direct to the College of Agriculture, University as Illinois.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume HVII

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Number 37

Illinois F.L. ro Pun Hove I. ir Own Shelt recets

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Man cannot change all the cross of author, becker modify his own surrearities. He can imply the enfects of have ther. If the springe velocity of the
minimum of a minimum and can be broken and decreased even singhtly, soil will be held in
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creater in an, beact and birl.

In fereign and of malterbolis both on large and small scales is not entitle to rever untried activity, it is explained. On the contrary at is based upon the lowering or rience of sever l Furopean countries, particularly Italy, Hungary and Rulls. In the elementary others shall about the have been used over a period of years all the manufactures and a context of the manufactures have been stabilized and have turned by an in the corresponding or then have a cother areas have suffered serious lower to the corporation and many many and all areas have suffered serious lower to the corporations of the corporations.



Mew U. of I. Sircular Pictures Dairy Sattle Ippes

Dairymen of this state who own more than 1,111,400 milk cowe and heifers and who buy, sell and trade thousands of head manually, will find considerable as—sistance for their transactions in a new circular, "Selecting Dairy Cattle," Just published by the College of Agriculture, University of Illinois.

Many thousands of cattle are bought and sold every year for dairy purposed merely upon the evidence which their external appearance gives of their ability to produce milk, points out the circular. In such dealings, the buyer who knows the characteristics of a good dairy cow has a distinct advantage, while the untrained buyer may be saddly disappointed in his purchase, once he has had an opportunity to test the enimal's productive ability.

It is to assist in lessening the number of those disappointments and to eil in raising the standard of dairy cowe in this state that the new publication has been prepared by W. F. Nevens and A. F. Kubhwan, of the V. of I. dairy department. The circular contains some if thotographs are drawings which partray rang of the desirable and undesirable charact ristics to be bean iffor in dairy cattle. Jerseys, Holsteins, Guernseys, Agrahires and Brown Swiss are more the broads pictured in the booklet, with separate sections devoted to the selection of bulls, heifers and mature cows. The publication makes a practical heads, the for the charge and students in vecational acriculture classes as well as for had re and members of 4-H dairy clubs.

"Inowhedge of the characteristics of good type in dring cattle is important, not only to the buyer of new fearly stock, but also to herd owners who wish to raise heifers from their own best cours to replace some no longer useful or profitable," explain the authors. "If the quality of the hard is to be constantly improved, ability to judge good type is essential." Popies of Director 4.7, "Colecting Pairy Partle," may be obtained from a county fund adviser or by writing direct to the College of Agriculture, University of Illinois, Orberto.

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Local Sales Out Costs In Year Or Light Apple Crop

With one of the scallest Illinois and le crops in the most of years, prowers who are fortunate enough to have trees bearing this fall will have an excellent of nortunity to dispose of their explose through local markets at a minimum expense, according to J. W. Lloyd, chief in fruit and vegetable marketing at the College of Agriculture, University of Illinois.

The state's light apply crop has been estimated at appreximately ",6 4,100 bushels or less than a third of the average annual production during the past 10 years. Only in 1901 and in 1990 were the typle crops less than is estimated for this year. For the United States, however, it is believed that the total apple crop will assumt to about too-thirds of the average for the most decade.

In sensons of a light crop like the present, the local demand for an less are well be given first attention by orchardists. From the standpoint of the grower, the keting locally has several advantages, bloy's emplains. The cost for packages and backing is made advantages, the local purchaser usually brings his own packages and backfacing is necessary. There are no freight bills nor brotherage charges to be deducted from the salling price, because the local buyer provides the transportation and business is transacted directly between producer and consummer. Headled in this way, a short apple crop is likely to not the grower a greater return than if the fruit a reshipped to the large city markets.

To market applies successfully by this without, it is necessary for the orchardist to let the people of his vicinity from that the applies on them they will be available. Feeding notices in local papers uncour; here this surpose idequately.



Cleaning Hints For Rugs And Furniture Declaimed

With fall house cleaning time just around the corner, homewakers everywhere are worming about how they can brighten up the appearance of the living room remove that uply spot on the unholst, red makeir or velour devenport.

To make this part of house cleaning as easy and is effective as possible, Miss Isabelle Hitchcock, how furnishings specialist at the College of Agriculture,

University of Illinois, ordes several timely suggestions.

For cleaning rugs or cloth upheletered furniture that are not badly soiled, mild soop flates should be dissolved in warm water and stirred with an egy beater until there is a thick, dry lather, explains Mics Mitcheoch. The suds should then be tested on an incomplemous place to rake sure that the fabric will not fade. A stiff bristle brush should be used, applying the lather only to a small section of the rug or furniture covering at a time and always working a rotary motion until the lather is soiled. The soop should then be wiped up with a clean cloth or sconge wrung dry from luneward water. A precompared continuous sill prevent answer cleaning, but care and be taken to use only the dry 1 th raw that the studying in the furniture will not become damp. Soiled surmiture covering such as tope try, denim, rep or friese which are fact in color may be frishered in the same manner.

Grease spets or oil steins may be relieved from uphalateral framework and rugs by using northe, chloroform, sarbon tetrachlorise or a detergent. When using napths or chloroform, the furniture should be noted into the open air. Either of the liquids can then be raplied to the stein, werking from the outer edge to the center and allowing it to sorb in well. A piece of blotting maper in them placed over the stain and pressed with a slightly warm iron. If carbon tetrachloride is used, the spot should be spenged thoroughly with a cloth saturated in the solution, using another clean cloth to absorb the soiled elemina fluid before it evaporates. All rubbing should be done with the map.

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Fuel Expenses Con Be Sov 1 30 30011 Hope Repairs

Illinois form formilies who wish to love money on the annual coal bill and at the same time enjoy were comfort during the coal winter worths should begin now to make certain needed repairs about the home, suggests T. a. Foster, mural prohitecture specialist at the Gollars of Agricultume, H. iversity of Illinois.

Loose-fitting doors, retaling in love, erache under the brackons, in close and plaster produce drafts that reduce the comfort of the home, cause grist to the

Loose-fitting deers, rettling in loos, erache under the headboard, in clears and plaster produce drafts that reduce the confert of the hole, cause grief to the occupants and additions; to the coal mon's purps. All of these are little things which should be fixed before winter comes and, fortunately, require sem little may risk or expense. In most cases, a shall shount of time and labor are the chief requirements, points out Forcer.

Twenty feet of bronze weether stripping and JC minutes time will now the door fit like new. A check of the sech and registing of stops will improve the windows and stop the leafer there. Plaster repairs not only keep the cold air out of the house but improve the appearance of the home. Repetiing of the cornet strip or show soll will eliminate many floor dwafts, while gome coulding may be purely selected the building materials desler and by liab with a butty shift or the series—type for our con.

All of these minor repairs rup by done by the bondy run in linear time of a surprising loss cost. The saving in the local fill pay for the sectorical reversal times over each puer, while the extra confort and adving in bould highly odd linearning to make the repairs. Count the sout of world and only me it with the actual cost of repairs, and then you will confort shy the little to the cost not done long ago, sager Foster.

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Timely Notes for Farm Advisers and others from the Agricultural Co.lege,
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Vol. . IITI

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The stricture conferences will be in the return to the relation will receive to make the country is the content their return to will recise in mediant country meetings to which the comments of the corn-hor production control association will be raised and the raise will be trained.

One of more terms will then be organized for holding a sept a of community sectings throughout and county with the files of reachings of countries. This series of restings will be concluded in the Tot the Militaria country to be sent to Tanian to be fore October 13.



No Short per O: Seed Corn Livel, In Illinoi, In 1835

Unlike I as fortunate farmers in some other state, Illinois corn movers should have plenty of seed spoilable from the state to 10% computer plenting a normal crop of around eight million across next reason, in the opinion of J. C. Haelfleren, which in crops extension at the College of Apric 1th 11. They reity at Illinois.

Hard hit is it is, the state! 1900 corn drop will have up to the remeds for next we relationary pick characters? the right kind of so doct the propertime and store it refely during the winter, Harli many id.

In which there purrishent gold not so modill not be avoilable for a d, 1937 critbed corn can be assi, but it is less actimable for leed purposes than good quality 1934 corn, it is said.

Following a trip through SC northern and control Illinois counties, Feebles can reported that hole counties in so a section and it could parts on the other counties of the state in the secess of countrols at this fall. Form we in other counties have a summer that output is established between 2,500 to 6,000 bushels and of sead corn that the sore fortunity counties.

A shorth a of seed from 10 + common it. The northeautomal reservent, if farmers in the more fatored are as will exhibit a larger of seed this fill so that it may be made evailable to more remark a less fortunate or a, it is delieved. It is recognized that the citration is so marrows that it will be more a representation in a of farmers to use old corn, but the moder of sechon of the responsibility and resolutions farmers who have and quality corn will accept their responsibility and resolution and store complus of seed this fill, Hold and cont.

When delecting would come, it is best to piet only there were that are located on plants that are well accounted by the read on another to halo a reconstruct. The state and parts of the leaves should be green while the number when two is a type origin. Furthermore, the plant from which seem come is adjected should be free or small our the ear should be supported by a stundy, wakrown a should. The bracks should cover the ear well and the ear itself antild not be supported in place in circumfer are as such a redry clowly. Here showing mold or insect inputy should be discussed.

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From Account Round-Vr To E- Hild In Ottown, Sept. 27

II. I. Wilson, societant correctory of the United State. It partment of Asriculture, in senduled to be the headline speeder when far was from some 41 mosts on Illinois counties gather for the form buse unform managerent service counties to be held at Ottom. Suptember 27, it has coin annumed by the College of Agriculture, University of Illinois. The meeting will be held in the Ottom High School at atimat 3:45 a.m.

How formers who are keeping records in the provide nove improved their returns and put their business on a better basis in the face of conditions prevailing during the past reveral years will be in case 3 by representatives of the face instruction of the agricultural collage. Approximately 180 formers in Grand, 6 - Salle, Marshall and Putnas counties are cooperating with the collage and their count farm advisors in keeping records in the service.

The round-up is a tri- argue event, the first having been held of Normal in 1908 and the second at Bloodington in 1901, [2] I farm advisors the farmest in worthern Illinois who have been cooperating in resold-heaping projects as all to others interested in form management records have been insited to attend the cooperation.



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Illinois factors, who have been buying the average of more than 116,000 stocker and deader cottle ammonely during the perturbation where, will have to be unusually shrews in their beauty than full is they are to a out disprounting results, in the opinion of Fig. 8. R. Shepp, associate this in best cuttle he builty at the College of Agriculture. University of Illinois.

The critical field cituation will robe it has compute by reviews on a different basis than has been the case for the part several grows if the winters it to be a success, he pointed out. Only for any ith planty of corn will be in a position to read calves successfully, while formers with limited supplier of some ill be wise to confine their purchases to be gaing. The transportance of different by the belief the confine their purchases to be gaing.

It helder pays, and certainly not this pape, to buy cattle because they "look like a boryman," wit. little or no thannot as to abother or not they are had part to the feed supplies and shelter equipment available for the set their ner homer, it was pointed out.

Because of the chartage of gr in and the low stadity of available recurrence, most formers are not in a political to recall two states. Ally, However, the conjugatively few farmers who are fortunits a court to have a mangiate amount of choice year on hand will make relatively good provide from Teeding culves, Suggrability of This seems likely because of a protable room ity of choice, light analytic steam next summer and fall.

Farmers with limited supplier of crain will do left r to confine their purchases to yearlings and two-year-olds, under animals of those area are well suited to utilize coarse feeds such as shock corn, soybean hay and down silvare. Furthermore, current market prices for both alregatur and feeder atternance feverable to the parchase of older and heavier cuttle.

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St. onl First To Lore Fr at Food, U. I. Is to Show

Contropy to popular opinion, the subscile of Illinois forms lose their fertility first and more rapidly from continued cropping than do the curface soils, it is revealed by recent studies and at the college of Apriculture, fair raity of Illinois.

Heretofore, it has been generally believed that the top seven inclus of soil was the main feeding area of most form crops and, when no affort year unde to replace the consumed plant food, that the loss in Pertility occurred from the top downward. This has been found not to be true, says R. H. Bray, soil analyst of the U. of I. agronomy department.

In light of this new knowledge, explains from it would been able provided and economical for farmers to begin replacing plant food either through manufes or commercial fortilizers before the subsoil has been mined. To allow both the surface and subsoils to decline in fertility before treatment is started means that will intuit up the productivity of the land will be glow, since it takes a longer time to increase the fertility of the subsoil than the surface soil. Experiments show that first first initial increase in productivity resulting from surface treatment, a gradual increase in productivity occurs which is accompanied by an improvement in subsoil fortility.

When a soil improvement program is being planned, to to should be under of the subsoil at his to 12 inches and at 20 inches deep as well as of the subject of it is unid. This is especially important where it is likely that the sould are low in phosphorus and highly acid, for such subsoils should be already in the treatment program.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

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From the first translation of the limit of the contract of the self-off of the freight outright for all Ask, it is not being the for the first off. The J. J. When a contract in the self-off and the situation of Agricultum, This party of thinks, to in the order of the lorge contract of the contract of the limits. The sent off of the contract of the self-off contract to a limit of the contract to a limit of the contract to a limit of the self-off off of the contract to a limit of the self-off off of the contract to a limit of the self-off off of the contract to a limit of the contract of the contract

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All and indian and apartment the accommon first case for grains the epipher lish is allowed. On his No. 1 of feder nor so were shall have allowed and entering the arcan at grains of the intection, so raised and event, well our it and their content have then a trace of three-constraint. Grains No. 2 shall make the according to the leaves attached, now by jet an to wellowish brown in color, sake the according to mile our interest and the content one part to read a distant to well our and to prove the according to the leavest and the archest and the channels for bong husing a distant following and the according to the channels of the channels of the content of the channels of the content of the channels of the c

Tend tive in a stablished for the independ grades and two for the configurations are too to some foliar—thole, \$1 ton; chredded on threshed, \$1 Tender on the foliar tower—who e, \$1.50; chredded or threshed as threshed, \$1.50; threaded or threshed, \$1.50; To. come staver on a very course store — whole, \$79 shreaded or threshed \$1.

The segrifier or or T.S.P., the fire of sintrine tour for balled stores, or filler. The secretary of agriculture will appoint instructous who wall imagest the solid or the store before it is a fall of the paint of the solid.



Illinois Farmery Sifting Catholic On A of and atom

Freduction of both grain and live tell threat he to get out or bond again within a few years, there is beneficially nother each as ruincaely law prices unless producers plan accordingly.

This cummany of the feed and liverton outline, this has beend on evidence collected by the Bareau of Agricultural Economics, V. J. Deportment of Agriculture, has just been presented to official county recreams tives in a series of nine regional meetings hald by the extension continue of the Delbar of Agriculture, Chiversity of Illinois.

Then regional conference can the first the toward a cerior of state-wide community meetings at which were community meetings at which were community meetings at which were community to the facts on the present economic situation and to much air vate on the question of a WAA present for 175. After the 1.79 communes contract terminates on November 90, there will by no control program in officet with a can be carried or live story will be farther plane are made.

Flanc for the constraint of tine in the leadure of the countries of the co

The economic situation that or in any diversees a rm result race in 1935 will be absent the expectate of conditions that winted at this time best poor, it was pointed out in the recipral median. From our died have been out into so heavily that they are now on the obert in a time. Liverated anyelie, too, now been out very sharply, but the character in a time. A new expectation of the character prices.

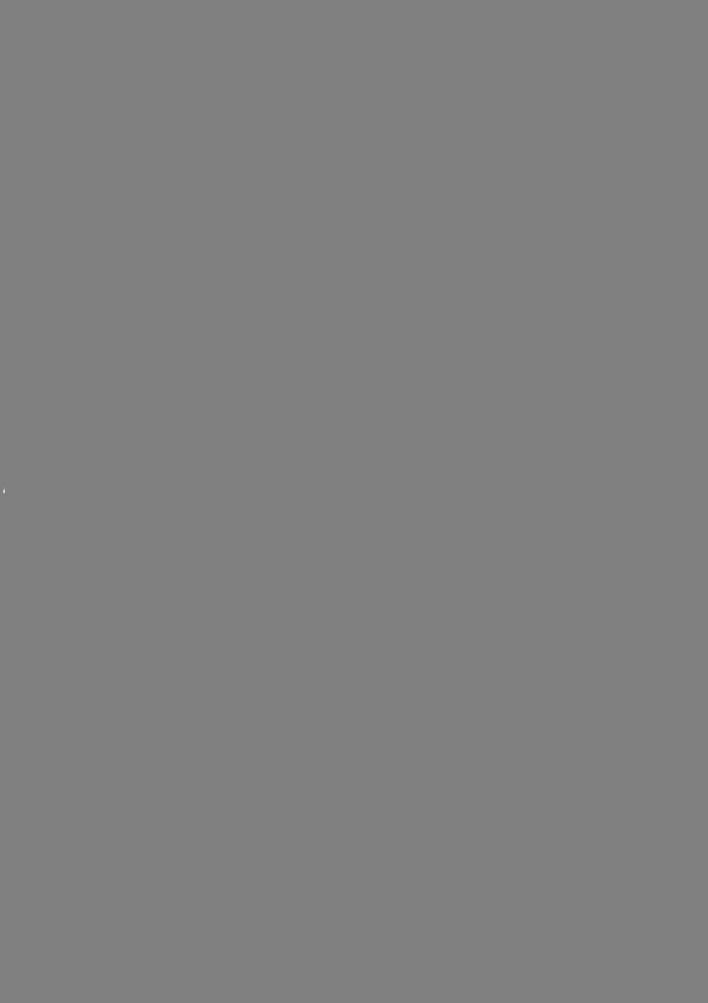
This has just a presidence, as a compliant. On the tasks of part expendence this threstons to attitude an intelliste and lend term increase in corn caseage. This in turn would bring reinously low sted prices and lend to a overgroduction in liver ock raising. Live took spices would then collecte, and corn-hag a relucers might be right base in another of the dispatrate symble and a mind with the present see of term-justical contains.

The region of convenity restings is being planned on as to get the regults of the Illinois well to Washington became October 10 where it will be considered along with the outco. of the vote in other states.

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30 i Outo Nor F ins F i Would Dring Politic In Buring

Hard present as they are for as a to a intain their cient or nine dillion about if livesteek. Illinois formers can hardly as ford to continue is diag or to of good sead quality and adorted varieties, it is resented by J. C. Westleman, which in cross extension at the College of Agriculture, University of Illinois. Cats of this wind now threaten to be so seemed that it is because if a premise as a single soil. On county, Chambaign, is conserving its suggle by smaling of the county has a relative to the corn local. Icens on the coster, suppressed and wheat will be discussed for the corn local. Icens on the coster, coybeans and wheat will be discussed at the rest of by our cont of market quotation.



Repetition Of "Lean" 1934 Crop Season In Unlikely

A repetition of the disastrous crop senson of 1574 is not likely in the immediate future, and therein lies hope for the farmer who is planning shead, in the opinion of Dr. L. J. Norton, of the agricultural economics department, College of Agriculture, University of Illinois.

For the farmer who is looking quite a ways whead, the decreased numbers of hogs, cattle and sheep on account of the short feed supplies means that the balance between livestock and feed prices is likely to be more favorable to livestock after the 1935 crops are harvested than is the constant the present time, he said.

In view of this prespect, it will a profitable to maintain good foundation breeding hards wherever it is possible to do so in any way, even in areas where feed supplies are very short.

Reasonably favorable prices for destatiffs and for fat livestock are in prospect for this fall and wanter as a result of the short crops of feed grains and the prospect of short supplies of fat stock.

The belance will low by in favor of feedstures, but they will not be so high in price or in relation to leventack prices as they would have seen if production had not been so drestically carbailed.

"The low control colorates in the United States will yield about 56 pounds for every 100 pounds performing the annual average from 1987 to 1931. The 1934 crop of hey will yield about 67 pounds for every 1.0 pounds raised in the 1937—1931 period.

"Although the Illinois corn crop to storm, it is good in comparison with those in states where the midsummer heat and droud, producedly destroyed the crop. In Illinois, for chample, the crop is estimated as 80 percent of the five-year average, while in the five states of South Dalota, Webrasha, Kanuas, Orlahoma and Missouri, the crop is only 15 per cent as large as the five-year average.

"In spite of the very chart corn crop there is a better balance between hog numbers and feed supplies than would have been the case of the robad been so AAA cornhap adjustment program. The 1934 spring pig crop in the United States was estimated at about 70 per cent of the average of the past three years and the action of sows to farrow in the summer and fall of 1934 was corecast to be slightly save than 60 per cent of the average for 1931-1933.

"Usually curtailment in heg numbers follows short corn crops. The fact that hog numbers already have been greatly reduced will lusten the necessity for the drastic liquidation in hogs which usually occurs after short corn crops and will maintain a better belance between corn and hog prices damage this winder than would have been possible if the control plan had not been in operation.

"Reports to the U.S. Department of Agriculture induces that 30 per cent fewer cattle will be purchased for feeding this year than in 1) fig."

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High Feed Prices Fix Doom Of Foor Trees Of Animals

Mounting premiums on feed spell the doom of all the poorer animals among the eight or nine million head of livestock on Illinois farms, and getting rid of such stock is the first step in conserving short feed supplies.

This is the recommendation of members of the dairy and animal husbandry departments of the College of Agriculture, University of Illinois in a special leaflet which they have just propared. It is designed to answer the many impuries of farmers who are hard put to make their available feed maintain the livestock on their forms.

Feed not only will be too coarce but also too high priced to wagte on low-producing or inferior animals, the leaflet points out. Not only low-producing dairy cows but also inferior animals of all kinds and ages should be disposed of as moon as possible, it was recommended.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Shread finder, ad proviolly takes who came all new closes a swelleble.
The the oncount likely to each in a thorowork with confidential wing the coming winter, seconding to W. G. Nordal, ratio of this is should be many at the following Agriculture, This satisfy (III) is a

Food couts will be bith and a fits will be esten un unless the lorbs sain fact, he pointed out. I said sains canerally are cheap cains, Are fed to gain fact, he pointed out. I will sains tenerally are cheap wains, a they now to double of feel and a raigh improvement in the position of the lambs.

"For i on to will be a new more inscribint it main the encounterent returns. I lamb freding this proper then you to see a green per. Her make, a rescially lage, ill cost at loast tripe of raid, indult erries by a slammed of the it will not be

cleany to set a ser, an even if signors.

"Silver is a relatively some of the major produced to a the only monotone for estioning lambe, if it is eropely upole ented to make a first laber of erotein and mineral. When I conclude is not an allition to be all way it is easy will that a protein compositive such as eague so oil most, settem. For deer like the design of included in the writion. Filtraine, see simple mineral and lawest seconds be and of ver the citate. About suce-count aroms of the protein such board thing for each lamp. es usually energy.

"In that had give at the U. of I. Tallow of Appiculture, a mixtur of qual parts of salt and finely around him atoms follow to either any entropy of any open of the parts of the p

outen in utilizing it efficiently."

Southern Send Carry Born, Joseph and Exp Plight Division

Wilsoms on the rains have he main a read willing new into a day whather this and any also have with the letinat despend for the back to of sequences also fine Ollingia franco anill News to this foll, in the epinion of Ambunin foods of oreg pathologist of the College of Agriculture, Conversity of Illegate.

Proportional mixture in late outlier and early full is particularly foverable a the development of what is broom as "estimated more" blight, and a result reports as we on received by Roobler indication and the discuss has broken out in appear if the

in several source of the state.

The enly profited numeric money of the area out time, explains Reciller, is to are special our to a stime that have specied in unique, ible when a special bide. If the single-maiderable maintains in the stand bound, the linear flagues of proods and dly and multiplies the derews.

Symptoma of the dia sea or compile sympletic dia to virte, but the a ele omage will be readily observed by a second of the accommission was projuct. In 1986, when a power infection of "god and prom" blight occurs A in Itlineis, where If the model to perminental last team To a count open being that what the T. of I. f the conditate garminated less time Till count you being that does the T. . follow of Amigulture. Compagnently if the Ray would be tast in will a very large resofthe state in September clastic continue, the blist will under toll the s encilerable demant this year.



Drouth-Dameri land Not Likely In Dest Jam Stock

There is little dumper or something livestock of the line for the edge of corps. talk this full, if apple that that the College of Ambielton, This emitte of Illi de er typical of corn teraughout the state, pages Dr. Robert Grebert, chief in ceimal athology and hyrione.

Innumerable impurious resulting company of the configuration of the pater long chordory r lotiv to the year felt year act, gray writer of an act corn, so well so andon grain, and agramently makes to the court officed to their office of the corresponding

first. The many complete of our minimum drouble corp. What have been to did in the inburatory, to dut that elements opinions has shown this be existenced, Dr. Greich music. althou hait is known that coursum plants can divelop fotal ancourse i lydrocymaic perd under arrested arouth, the discount of the one of sorn come to be noted adoubtful.

II. princula properti a ni caesa ere a kon alen ken ne menin dabrita, ertain atwars of greath, but a recommon bank fille evidence of injury when fed to 100stock was not cutoined in the impart of an . An applicated how were fit the expension w

ripl of three weeks without the wing or ill eff etc.

Illness which may be misted in a reflect pointing is now times even d by the midden change in rations, Dr. Grober seidt, out. This is particularly from in closes her, the animals have been on short to ture and or lines rundom emplition. For at rains have improved the gastures and have a moult seek a of leminity have been bearved n berses that had nothing to a tobat bloogram . This wilment of my accompanies on literatinal disturbance, the course negally being a suiden change in list or every section nivale in por e adition.

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Home Fire. Ser of Heavy Demons Both Fell In Illindia

Tearly \$20,000, 00 in array sty in destroyed and many lives or list such mar in the stated States, with Illinois our of the howinst loss of, because prople wil to exeming their chimneys, flu a one other hosting prigment before starting fir n the fall, says Mice Bladys J. Werd, bor man coment of birdies at the Ball of of Agriculture, Whivehelty of Illumois.

Communiting or the national observance of Fire Prevention West, Cataban 7 to , Mics Ward points out that in respect the teath of 1, 15 persons in the Unit se tat a in one year, almost by year count of whom were residents of Illinois. In the grad O years, approximately 4,000 people have burned to death in this state, a third of

sem being children under 10 poors of age.

House fires which everyone at 1,000 daily in this acceptant boy or wear

reporty demage amounting to \$1-0,000,000 conmunity, while the total lead from the type of fires aggregated nors than \$51,000,000 in 146.

Before lighting here lives in the only full notice time to import, or in and alson sad defective chimneys, flavo and firm hose, if this werk was a torse incoing the regular agring house old him , but the Kiss Tol. Moon of the lost of the and property also could be speck at a, if a fire entinguisher where exert of the conigent of every home. Rept within easy wereas for maintained selicines to make fills popularly, a hamilistinguisher would proach a lord conjunity of the order base fir before a great incl of durage was daying A well limbs (or take, 11 bes a cold) a and now of broad or calco excellent with it vertibes to excell fire the edition of the in the Bitchen, while many of the figure ordered by a custom to a result had the would be provented by hospins ally of main along the time the and the transfer o raid.

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Timely Notes for Farm Advisers and others from the Agricultural College. Experiment Station and Extension Service

Vol - VII

Number 41

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was rom Italer in Fictor property was - & suctor of LEF, 0 tons llinii. i. . : : : : Batck Parthey, out the la-d it - tion in the - batck Parthey was has contact to the state of the sta prointed to the Da, as well so count; the assample prodes asked to take here. ing in the string of the Agreement Execusion Act approved by Congress May 8, 1914 H. W. Morrows Director.



Illinois Former: Organise To Fight 1975 Iniach Bug-

Corn grovers in Illinois are already aming themselves in Science explicit a probable chinch bug attack in 1935, with farmers in southern Iroquois and Vermilian counties leading the way, according to W. F. Flint, chief entomologict of the Illinois State Matural History Survey and of the Jollege of Agriculture, University of Illinois. Farmers in that section are suspaigning to eliminate all would grains during the coming we r.

At the present time the chinch bugs, which have destroyed millions of dellars worth of crops this year, are flying into sinter quarters. Next spring, however, the pects will come out of hitera tion and begin feeding on such armins, particularly who thend barley. It is not this stage that the entropy according growers in east-can rel Illinois expect to defent the bugs of a there will be no small grains for them to feed on, if present them are more aful.

small grains for them to feed on, if present plans are runte call.

Authorities at the U. of I. College of Agriculture is not recormend this particular method of combatting chiral bags for the entire of te, but the movement illustrates one way of fighting the destructure plats where farmers will organize in a concerted drive.

Early in September a group of firm leviers in the traccounties met to comsider what could be done to protect their 11% over crop from the chirch bugs. Sheet corn is an important cash crop in this area, and almost any method that will assure a minimum of insect damage is justifiable. Representatives of the T. of I. College of Agriculture and the Datural Hi. tony Jurvey were called in to suggest ways and means of combatting the pert.

As a result of this and subsequent meetings, special agreement forms were printed, township chairmen were elected to lead the movement and approximately 3 per cent of the furners in the area are believed to have pledged than elver not to grow wheat, barley, spe, data or other and ill grains in 1955. The creage formarly devoted to these drops will be planted to clovers, soyteens and other legimes that are not esten by the chinch tage. Is well as some additional speet sorn horsage. Furthermore, the corn will be planted later thin usual. Thus, when the injects come out of winter quarters next agring there all be a minimum or their factorite foods on which the first brook of bags normally develops.

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Illinois Funder Ariei By 38-Year-Oli Liming Tests

Illinois farmers who had reasonably good stands of alfalfs and so et slov sithis summer, while non-legiminous hap and pacture crops were wither a by the drouth, respect the benefits of 33 years of experiments in this state dealing with the value of limestone in crop production, it as revealed in a recent bull-tin published by the College of Agriculture, University of Illinois.

Alfalfa and sweet clover, because of their deep-rooting characteristics will grow well in spite of prolonged day weather, provided the soil is not in an acid condition. But in many fields the acidity of the soil must be neutralized by limestone before a good stand of legames can be grown. Thus many farmers the lawe followed the liming tests conducted by the C. of I. College of Agriculture had have and pasture this summer regardless of the drouth.

It was back in 1971 that the first of bunin-is of field tests dealing attasoil acidity were begin, explains F. C. Bower, shief in soil experiment it has only author of the new bulletin entitled, "Response of Illinois Soils to Dimensione." During the next 17 years more than 47 similar experiment fields were 1 veloped in different parts of the state. Sh of which are stall in by region as was a facts relating to soil management pro less.



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R. h. Chrolin, former form advisor in Group of the best work Cotober line the new order in White counts, end a second of the constant of the first o Fast the county, it row here advices in Marrey county, ever form you a Charles.



Beer Cattle Conditions Now Foreshow Higher Mariata

Denditive which will not it in reduced our like of make for higher cattle correct or reviewed in a local correct with a set continuous of the countries of Appicultum, independing of Illinois. First, there is the great decrease in the cettle conclution of the country as a combined result of the drouth, court feed on his and the federal entitle buying program, and second, there is the greater number of cettle Aim-ly to be red this winter an account of the reduced corn arms.

Number of courts begin to income the initial States in 1978, but the number of cettle consisted librat increase until its. This follows the usual tendency for characters in wather of cettle reports to lag behin* an increase in numbers in bracking bends. This became brackers for this open by low prices for cattle which course twants to still the thoo. Once the period of increased parketings sets in, it has now light under a veral price, triangulated established as fairly stable level.

The drouth of this curver to a thir with the notife increase program of the federal government has concertrated into below a fuction in numbers which would normally have required nearly prome. Through Selection of the circulation head had been surchased by the reverse a. The larget reports indicate total purchases will be from 7 to faillien had. Although part of the entity be chirald to both ern and east are notices, the larger reported have around the country by very substantial amounts. A crise of restantiant likely to follow. However, because levely for eattle may be an eated after this liquidation in large 1.

Information to desirably the U. C. Describent of Administrate about Angust 1 indicated a 1 crease of Theorems or are in a table to fine this fall and winter compared with a year confier. Since this set, the very remissant of Conter and feeders from the correspondent on the box bean unusually heavy, the total coverent for the three cenths, drug 1 to De table rel, being a secretar on the table of a passage but approximately the remark of a 1 hard 10%. In all probability there allowed include a considerable much represent which have been bought graphed sipally to unifie fell a course only course remarks. Come woully these Shirhents ill contribute own has to the hard course, When confident and thering and surser than their numbers and the indicate. Following the short corrected 1001 and 10%, the capities of finished at one coming onto the market the following years were greatly reduced in comparison to receipts of features up! and "short ded" cattle, receipts a wife market that a larger, should be all permits of the massage of ground of cattle, receipts that a larger, should be all permits as a line of the proportion of cattle, will be fed, to be ting, no doubt, for any 1 displacement to cleart any of ground 1000.

A factor of uncertaints in the narrots for all none products is the outlook for business and consumer incomes. A carbot marroy and in these would reinforce he effect as charter couplies on coutle prices. On the other hand, if there is little or no in provessed in business conditions, the adverses in price fill be such less marrod. In write of the certical which was taken a loca in business activity in he last that worths, the concret transitions extints on orbible when he

he last the contine, the general trand in activity of probably maward.

Over a veried of time changes in beed autitic and deing companions show strikingly close abscirations and higher beed active mices will tend to be recens as laing cover. Moreover, the answered class for about percent larger than the first eart of 1934 indicates that manustings were thirty percent larger than in the last earied in 1933. These conditions of it to higher prices for "ours cover.



Roofs F & First Atleation In FHA Res in Activities

Better received the horist eraction to reset to receive it the \$7%, 4%, 4%, 4% worth of buildings on Illinoid erace, and now with Each Hazing Assimint tion funds becoming excitable is the tile to take come of at least the reads, agas W. A. Foster, rural architecture excitled at the College of Assimilture, University of Illinoid.

Replacing this wormers to restrict the form that restrict will atom the domeage to the building and it is about, will increase the appearance of the atructure and add to its value, First reports that.

The new roll candid to the fider the brais of common nee, fire a cirtance, grear are called a cristeness, we will do be cost, cints of Finter. It is false enemoned by rescon resulting captures, liability in a dwn perso, while a good one will need no attention for the common but re-

If the roof is to be a concess disclored, only those with he we entite and out from straignt-order as a more as all knowns. Then a set of roof is properly, the moternal as best defined by a tree or which the seal of quality is stagged on each viscout. In the case of our reliable most, by we delet a knieled with a singular or town with-lims of in our side consulty give the greatest of the median. If composition alone is to be used for the roof, disconsided unit, rather than large pieces should be a least. A list be investigation all to help all in Charing the roof best advantance for the original or an action. In the roof, be builded cording to the rook empations as for a seven course.

Better recis on the fine building of the title wild stop norse than one

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Homes and Buch Woords Sinc The Ire Int Claritah

Here can describe through a continue of a compact of the area diginal from the way they came to the front in horse-caller countrate the hold of the of Arriculature, Thiversity of fullinois held throughout the stern this summer and fall. More Illinois terms made send records then as easy time in the cast wisht or re, it is reported by 2. T. Arbina, livestock extension specialist, who were in charge of the contests.

Places the costs records of the formed lifted i, of grands the full distance of Type fort, or the equivalent of a three six liberon place turning furnews six inches deep in stulble ground. One to the second weeks were and formed our remodeby Tharles Lett, of Stulwich; the second week, weighing , the grounds, was gained by Hower Granford, all Pontine, while the third test to will the rull distance when a pair weighing J, I pounds could be Garden Worter, of All repose. The test lifted Typerent of its own weight. Few town have a to go the reard, it is coil.

The all-time records were not in a 10 by two assets and by Willard Sh. la,

of f, if points.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volt HVII

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The control of the co

i it is to the rear chairs that corn-hog pro-Ti-I the Alla com-hog section. -1 - definite plan as soon as during the referendum, ine * 1 34 contract, involving e t be both corn and hogs.

admi - Protecture g that developed in work-

* = r- - - - - - ... bl - tel the senti-

cent to the senting of the senting of the region of the farm management direction of the farm management direction of the reverse of the region of the regio ent, it is believed. As we ing world to near normal yields, a total commacreage to the orea clanted in a 4 could not requirements and would leave a substan-



Finel Jours Of Illinois Foliat, Fovers And Press As

Alacat (,) Illianic parker: voting in the government's notion- iks AAA corn-act respectively of version solutions, regressionaling with earn and logical stay to by a count of T, 2 lote 1, Translate reveal the ison of a couplified, car-contract. reref represented as line with grains and live at all to become offective in 1006 by a ,81 to 7, Th.

These are are timally the sinal results of the referendable canducted throughout the of the by efficient of posity crusty conjugation control a coefficient. The portional majors the $\frac{1}{1+\epsilon}$ is considered a figure to the voted was three to one

in fover of the first avertion of in the team ordered decline with sorm and hogs in 1836. A total of [], [] v t . Soverbly, while only 10,11 were of one. Counting the votes of fermers who do not have 1 ' corm-hem contracts, as well as of sign-ers, the vote on this mention was []. I down the to 14,576 synamet.

Contract his errows ad street of the to eve in fewer of the excent

Sentrant divers we ed atract public to to own in dwar of the executar question of a diversion to be a directly of a definition of a diversion to be a directly of the first and liversion to be a directly of the first water, including both arguers and non-signers, who describely by a so not of the first of the control signers woth live to cinete and of the first operation, while the configuration described and the first operation, while the configuration described and, in three counting on the basis of the control signer and the basis of the control signer and the basis of the control signer. The configuration of the first of the first of the control of the basis of the control signer and the basis of the control signer. The control of the first of the first of the control of the basis of the control of the

coor retors only the son, The second respective that the second respective size of the vertice of the second respective size of the contract and non-second size of the second respective to the second respective size of the second respective size

Three other counties, Grandy, Hemesel on Melayler, wood from the second question when the Policia of norwards belowed the to choose of dignors. The trustion was for to the least of the Constant. However, there three counties were in a veneral the ground question on the lastis of the vers of MA necessarities - less.

Evin when the vote of hen-simple and the thet of the signer, the first position was left ten only the control of Illinois between the formula from the normal argin. That was in Grandy all months to the count was a 40 council to the first mortion of the period to be a print it. Along the contract signers, whose, the first prestica esprish even in Grands equipply to court of the block

In stagina the reference, perm-hag refuetion of trol elections beli withouth of 1,176 be implify up times which were effected by a fixel $60\,\%$, far lere.

Before witing on the two questions, a more heard on or lemition of outloca information from the bureau of agricultur lacanceing, 100. Derent ant of Agriculture, showing that the promotion tot of grains and livebook thre tens to get but of heringein unless formers alon secondingly. Action was hold to be necsavary of this tile, because after the 1 04 open-hog centrate to include to Counter , there will be no edjustment progration educat either on feed grains or on linestroir



Good Sold Curing And I dian. In O m Con Income

Providing goed overing and after to conditions for their seed acro this winter, rather than more or even aver to conditions, will be worth \$10, 1,000 on next a crts Illinois corn cross, should bely be a normal pear and corn prices remain at 50 cents a bushel.

This is revealed in eight, one of recents dept by central Illinois farmers carelled in the farm component corvice confucted by the Octlege of Arricultur, "University of Illinois, in can eration with county farm bureaus. In these records, involving the growing of approximately p, a coron of term, the difference between good and year seed corn curing and storage ascented to so bush the analysis in the resulting error. Even as respecting and storage ascented to so bush the resulting error two bushels an eare telew what it we fire and curing and storage of the seed. Evoluthele an eare on the average enrual Illinois are of paidlion cares, with oarn worth 5 cents a bushel, we like a little are then \$10,000, " in term returns.

By good curing and attracts in a set that the seat earn is dried rejidly and

By good curing and attracts in that the sold corn is dried regidly sudprotected from freezing until the error of secture has been relevely exclusive R. R. Reed, agricultural engine rational to M. Of I. College of Agricultural Those conditions are not set where the corn, is must on the Reed or in the driveway of the cornerib by in practiced on a no Illinoi. The sectual or ...

Regid drying of seed common in the vest of the refinited heat, college the weather is unusually reverable. For each pointless, the core can be long in the lither, or in an unctains routers at the himself, or ever an eyen letter retained. Large quantities of seed core as, be arised in the some other, a rege or other buildings where a fire can be wint ined. Ours, heavy r, should be taken to see that none of the erro is an excel to a persture clave 1 of degrees. Folgenselt.

Ventilation is also an insert of Sector in obtaining high quality seed corn, points out Read. These the sir landest by sround the cars is constantly changed, the ot as here because ladened with adictions, the drying will be much slower and an ideal condition is established for the acvelopment of action.

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Other Vegetable Gramma / 191 Mart Tay her / To

Protecting Illinois: I william in 1. r was told graving in hatty from "counterfait" cortified yet to seed will be a ong the important problems to be considered at the fourth annual meeting of the Illinois West toble Drivers: According to be held at Rockford, Nevember 10 to 1, according to 1. A. powers, vegetable sattention specialist at the College of A rightbury, University of Illinois. The organization with its as be rahig of more than 1,5% veretable growers is an ected to take a vigorous stand against the distribution of metato seed in bags bearing the word "cortisied" as an initation of the official seal of graving certification, it is said.

my fee

Mut Interest To Jenter In [1]. Reven Show On hev. 19

Other towns and ditied now have their cordita fair else, ities and their world's series baseball paper, but little New Haven, Newcome as the center of the paper proving industry of Illinois, will have a dictinative event of its and the Tri-State Nut Show is held then Nevelber 15. Aired to hirter the already tensive nut-growing industry of Gallstin count, the flow was started torse warrange by H. C. Nevilse, county from advisor, or a reliase like the establish service of the Callege of Agriculture, University of Illinois. Helds due to managers long for the 195 show, which is exceeded to draw antries from couldern. Illinois, counterwastern Indians and southwestern Meaburg.

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Volum EVII

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Old Strike Thills For Atoring Higher-Drieed New York

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In total values can cultural emports from the United states in the pear suding June 2, 1 =, which is a life less than the previous goar elthough one important reducts shows to be suited increase. The values into a site escents for the leading same products in the past year atomic to 70 us accorded with T in the 4 logs, when the an ever seried of 10 selected is used as a base sverage of 10. This intex all the values of agrees sured experts in the 1-104 was the lovest sizes \$7 - 100.

In this of the decrease in the volume of exports, the volume of the derivative remains which who can the country bed pear, exclusive of forest private, we can take in 1974 to 27, 1,300 in 1974 to 4 to 2000 and 1975, 1976, the pear before, the refer of bureautes 1 in 5. This increase 100 to total value of the exports was brought about by the crossed rise in countries, there are also at the exports was brought about by the groups of an accountries, there are

Atthough the volume of emports of complete of which the United States regularly arother an experts of several other products of which the United States regularly arother an expertable currelus. Notable a constitute for states for the period period period of a constitute for the second period of the constitute of the



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Forterhouse and direct ato in the label to their limited precertions, are about the state in it. There is, has very many other muts of he flat one moderate arises. In cost of our them are fund at mutations on the core existeer tie stocks and roughs. Further or , then appearly applied, they are write palabels.

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Timely Notes for Farm Advisers and others from the Agricultural College; Experiment Station, and Extension Service

Number Hi

Illin is or In Sta g ? at it a To Retain H woman

Although the surface of year-, the Hilinois corn brom is better than the in many it is not included and a sequently cornigrowers of this state have one of the best anneas that they have an about their not all and impermentional honors, as rains to a. The college of Agriculature, Throughy to a line i

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The at the will mass of the open of the transfer at Teat of last year when it the the 'c reading" error of the world of a transfer sample of yellow utility type is we by ". Werth Filmon, if the world of a transfer the utility type had won time in a valuable of the large and a single of the utility type had won to be a title, and the end of the anti-corn has to be a title of the end o

half a contury, it is of fairly good mainty, or offenly in some sections of the st t, inclored reported. In the form of, I we Webrasks, Missouri and some it is stated into reset which have affected as their bliness from the drouth will be hard proceed a put up to a recollating a most time at this year's hay

and grain short, it was predicted. If is is the section of the section of the come from northern lowers on the result of the section of the sectio

Die ration or millionar compty, was rathologis, the present "com king" of the strik live, in the of the on which has a cost crop of promising quality this year, Hacklanda rejected. Ther to notes in that bares with corn crops of fair quality are Warrer, know, Hany, White-like and the eastern part of Henderson county and is turn From a sunty.

Some tring samples als the ented to come out of an irregular shaped arm in control fill his inclining terms of Delean, Macon, Menard, Logan, Tazewell, Logit, Wilfort and harm countries.

The world a cuthern Princis has a grop of fair to fine quality corn,

Handlemon, rereside 🐍

What ar Illimate cars armains plan to enter the 'ay and grain show or not, it will pay than to save at the said they can this fall, in the opinion of Hacklethe. With the likelihood that cond committee 1934 crop will be in heavy demand. nest mring, formers will have a provitable outlet for all the good corn they can care this fall, he printed but. Some tempers, when their corn is going into the crib, plant with a tall ware that could cossibly be used for seed and store them in a sequente parties of the crib.



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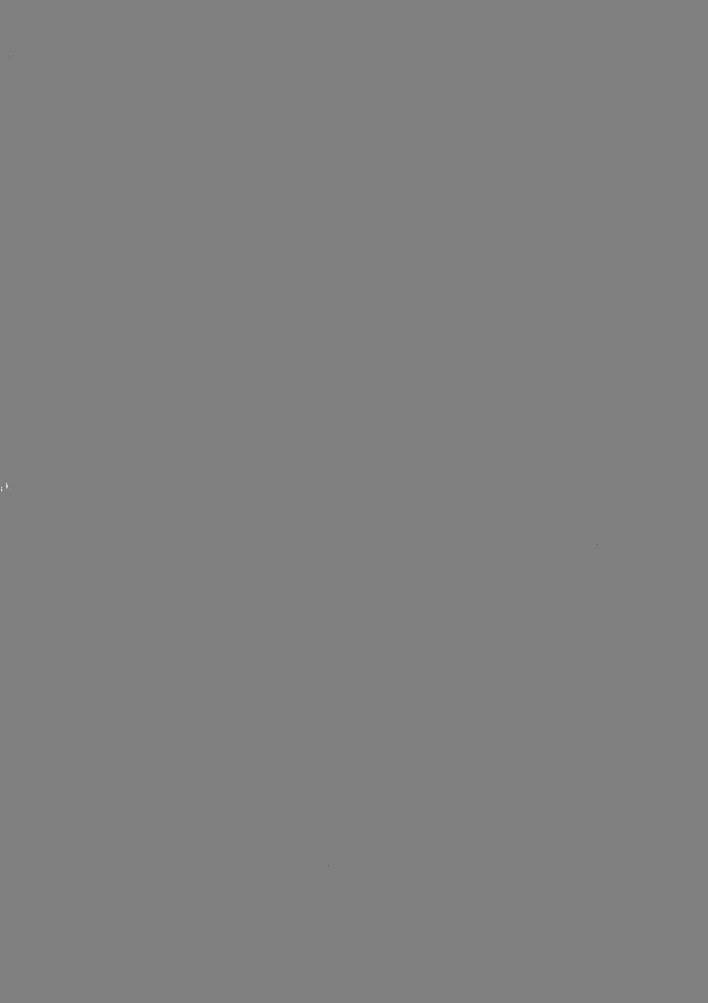
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New Varieties Of Applea Re dy For Illinois Oremanda

Something new in agains will be offered and some in a fine rate of an appropriate some result of new varieties which are considered to be somether which are considered for planting between new and applic, as on that to be in Mohans, accordate possible of the Gollege of Agriculture, This rest; a little is. So that they warrieties undoubtedly will be mut out by prover and are replacing trees that lied during the summer or who are putriculture to the planting this part, it said.

Nurserymen and experiment station plant breeders have made heterishy progress in the last few years, not only in develoring new variation, less is suffecting bud sports from some of the older sed non-common varieties of each of the accompropagations are being tested by the experiment station of each of 1. Tallego of Agriculture and by other inventigations and can now be offered to one writists with reasonable assurance of activities.

Development of the new vori the marks on the step in inquising the quality and increasing the market de and ton the stated to give any, which brought for more an average cach income of \$0.577,000 derivative the time greats 1981-1984. Moreover, and

an average cach income of \$6,577,000 derive the time greats 1981-198, Medburn said.

Of these new verieties, many means or consecute if sum well-known standard varieties as Delicious, Starman, Johans a, McIstone, Ruse of factors. Next of them produce fruit of a mach deeper reflect than the verieties from which they constituted, and the color develops on the spale, ruse, weller than in the color of the standard varieties. These new charact risting in a listing a swantage to the commercial grower, because he can hereby the complete what confirm and yet less a sit that will color up to U. S. Mo. 1 standard.

All of them; species are worl on took to the regions in which the percent varieties can be grown successfully, and the of FoWarm, and are well to finish in a small way either for commoneish in how the large.

small way either for commercial or here is large.

Several new exple vary the thetaers of bod eports of confident growers. A few of these include Barly MeDite at Tioga, bidi. Cowfair, Polaris, Molecand Red Bird. For the most part these new varieties originated in the confident of the United States, are adapted to a comply cold winters and can be exceeded to produce good crops in Illinois.

. . 7 -

Poultry Catlook Encourages Ung Of Superior Rations

With the coasonal increase is one prices and the encouraging who is for the egg market this fall and winter, renew distorate is being taken as laging rations by Illinois poultrymen, where flocks normally produce some two billion eggs annually, according to H. H. Alp, norther entersion specialist at the latter of Agriculture, University of Illinois.

There are, if course, several seed laying rations, but the test are good results at the U. of I. College of Arriculture consists of both case, and grain mixtures. The mash is usually made up in 50 - ound lets by mixing the term 166 pounds of ground yellow corn, 160 pounds if wheat middlings, 95 pounds of arounds of pounds of pounds of wheat bran, 20 pounds or dried milk, 25 rounds of sight or il mostl, 140 pounds of alfalfa leaf meal and 5 pounds of salt. For winter 1 what one pit of a liver oil is added to each 100 pounds of mach. This is kept before the birds oin feed happers at all times.

The grain mixture, when made up in 100-pound betches, country of a country of corn, 30 nounds of wheet and 30 pounds of cate. This is hand fed, and criter to being given 12 to 14 pounds for each 100 birds twice daily. Cystem of 110 with red any succulent green feed that may be available are given too birds for the second

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Dest to on leter, the out of the full sent in most forms of the largest items of excents on any our in this state. The last ten not replied 1 because horses are usually sed on fan error grains and a large of a constant is necessary for their leed.

How widely the with onto some well as a convergence of the perioding upon their consequent is shown in a stage of each to an experience of the periodic county formers in account in with the former, and experience of the U. of I. Policy of Agriculture. The net of the section of the born for the year varied from \$14.00 to \$76.00, or an experience \$24.00 to \$76.00, or an experience \$24.00 to \$76.00.00 to \$76.00 to \$

The number of hours of derivative of the entropy ranged from The train, the everywe being The hours. The entropy of derivative of hours to be a twenty of the entropy of the train of the entropy of the train with the highest non-exceptions. The entropy of the entropy of his extension of the entropy of the highest non-exception of the entropy of the tetal cost of despite the tetal cost of despite the terms with the writing widely on the entropy of the entropy of the equal number of hours.

Feed oncounted for the early of the expression to the form for including the horses, non-inferior primal to some form and in the form of the model of many and the form of the

From these figures it is evident that the confidence of a bull of each base power on facus out to reduced by sutting in a time classes are appears as to be areasing the house of productive son, tone to make the confidence of the feed of our time or and the later court in craing a rate of sums is to be economical. Depreciation contour, we repreciate an entropy what or in the nerse results as and I by received a little of the entropy what or its Sauer.

The hours of would have the subject of he received policy the number of horse the planting to the subject of her explained in the rest in his subject to wrote the wrote the wrote the constant for such works a fell a leaving, by their a bin too which too, by hereal, field a properly arranged and by here any the more a in scott short or whitten at fact they are the to stand up under econd loads when mean corps.

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Went to remeans and requiring reafs, the error test and of each for dwellings and other hands in this estate to build out the call, as introduced in Poor, loops construction and unincute edge the end reason research examine the form weather-stripping a coor or wand a will not the good to a sec. The relief of a brown gloss in a such or new party and the evice there is different.



Mo Winter Is Wind To Well Fronts Left Therewested

Nobely more what is offer in risin wing to east the cold thing for illustrate all resist growers to in it to when in the relation wish complete the first hard frace colds, necessary on . . . Noth, chiral an small fruit at the College or agriculture, University of Itlinei . The state has been producing a sillion dellars were not made in the impire that the early week, but the erep next year and the pears of the best win made will the plantage are stand of the winter, he said.

Mulching that of the help of the property for a lighter of the continue should be abnormably a right. Then a least of the team in the necessary solutions in conserved for the alanta. Then too, in a draft are an adjusted for the alanta.

miss would be.

"It is especially a content to each relative relative at her after the class have because forward and before the circh has also be. If we take no lower than C legroes above and could be with a latitude to consider the country of the country of the country. The third about of glasts in a special and this process that the country. Recyberria, the course of a such a relative to the country of the country and the country of the country of the country.

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Money Spent For Poultry Lancould James Only Wested

Buying co-entled recedies to rid their distance descent disease, which includes such all ands as range correlate, big taver tipe as, white eye, neurities and leucewin, is likely to provide a strate in animal rathology at the College of Agriculture, University of Illinois. As get there is no known cure for the college.

Although comparatively measing this at the lawest is concretily served ing throughout comparisons the throughout comparisons in threatens to become a minus resulting a value, joints but Dr. Thorp. It affects both sense while and appropriate our between the appendix

) and le menths.

In a ite of the fact that the direct recting is recised and be ordi, research investigations indicate that the direct can be controlled in the early stored of the lineage, directing of all discussed birds by brilling and burning, buying buts increase, a webre direction of body chicks only from direct effect the linear translations. The algorithm and anitary practices. The linear controlled the linear translations, in ediate diagnosis can be underly a local vet discrimin.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volum- XVII

November 21, 134

Number 46

Forular Simplifications Mane In 1985 Corn-Hos Plan

Lifting of the restrictions on all other crops except sorn and the dropping of the "contracted acres" will be the most popular changes with filinois farmers of all those that have been made in the new 1935 corn-hog contract announced Monday, November 19, by the AAA in Washington, in the opinion of officials at the College of Agriculture, University of Illino::

The new contract also requires that farmers adjust their corn and hog production only leger count below the average of the 17% -33 base years finitead of 20 per cent in our and the traction hogs, as was the requirement in the 1934 contract. In the case of our, farmers may adjust anywhere from 1 to 30 per cent below the two-year base average and making our continuous testing proportion.

If Illinois factors raticipes in the new program about like they did in the 195+ plan, it will mean that they will get between 19 and 21 million dollars in benefit payments as a further addition toward having their purchasing power restored,

officials of the agricultural collars estimated.

At least four representatives from Illinois who were connected with the administration of the less corn-hog present as a contributed in an official way to the mass of recommendations upon Which the realist corn-hog committee. F. S. Burgarner, McNabb, president of the Marshall-Putnum Country form-Hog Production Control Association: i. A. Eckert, Marchatth, a member of the state committee, and P. E. Johnston, of the farm management described. It of a College of Agriculture and a member of the state board of review. All four were called to Washington when the 1935 program was being worked out.

Drowing of the "contracted scree," one of the most bothersome features of the 1834 contract, means ther one lend withheld from comproduction can be used for growing any other erop for any purpose, officials of the college explained. Furthermore, there is no limitation on the gotal area devoted to cultivated crops nor on

the total arrage of any particular crop, excepting corn.

The "contracted acres" feature was omitted from the 1935 contract partly to simplify compliance and partly to permit the greater flexibility in farming operations that will be essential in 1935 on account of the shortage of farm seeds and because

of the destruction of many hay and pasture stands by the drouth.

Funds for the benefit payments under the 1935 contract will be raised by means of a processing tax beginning November 5, 1935, and continuing through one marketing year at approximately the current rate of \$2.25 a hundredweight on hogs and 5, bents a bushel on corn. The 1933-34 emergency programs and the 1934 production adjustment program require the collection of processing taxes through two marketing

years, ending November 4, 1935.

Dear H. W. Mumford, of the College of Agriculture, University of Illinois; J. C. Spither, state 1 ader of farm advisers, and F. J. Keilholz, extension editor, will be Illinois! official delegates to a regional conference to be held in Indianapolis soon after Thankegi ing, at which time the new contract and administrative rulings will be presented. Immediately following this conference, the program will be launched throughout the state, through county corashog production control associations.



Pasturing Bor at In Stall: Fields Will In Lagurious

Heavy death locates among horder and multiplicate in the former who tried to save feed this winter by turning work stock but to correctable in life, recording to a warning by Dr. Febert Granum, which in animal mathelogy and hygican at the College of Agriculture, University of Illinois.

It is true that food supplies are the short of one could. Unfortunately, however, it will be expecially dangerous this year to ery to get here a and mules through the minter by posturing them on stalk fields. Some of the worst corn- arworm damage that the state has ever had, coupled with a way rains, has could much rotting and molding of the erro.

Already reports are reaching the U. of the annual perhology laboratory of the widespread parameters of a disease of matting to add-fashioned cornetally disease so prevalent about the peace ago. The mobility corn. Out the also seem to be succeptible to the disease, although not no much so to here, which makes, points out Dr. Graham. They, husking wagons have been known to divide the makes, points out Dr. Graham. They, Illinois faces to might well play has the acting meet to here on the horses while they are being uses in corneistable this fall.

If corn talks are med for ford, it is your to be on many force this you, hogs and cuttle can be pastured in at the files with less lamper than any other form animals, it is said. Even then, the artile appalls a sector donly a part of such day and then registy inspected such night the possible amptember of the discuse. When feeding this part's low-quantity corn, for a constant self-color the such for large, makes and carrie.

The first symptoms of the lies as any limit, to be a recommons, alwest in any or sleepings, on the part of the horses, elthough the spagetons are not easily out to a without careful observation. When there will symptom absorption, however, a vetering rian should be called immediately, for only by a many treatment in the early stages of the discuss can the effect is snimely to save it. At the discuss on the effect is snimely to save it. At the discussion or denote, the begin to well in circles, stagger and processagain. I shall be many order or denote. These symptoms indicates brain disturbance that is must construct than to cure.

This disease should not be ecufuod with nytrocyanic acid personing this come farmers. Earld might develop area feeding drough among a carnetally this fals, or from feeding from ted millet, pershow or suden graps.

Rockford Fort To Cture Vesetable Gravers! Meeting

Although Illinois is namely considered as a corn-hog producing store, the annual meeting of the Illinois Vegetable Grewers' Association to be belief at Rounf no November 20 to 2, will be one of the outstanding farm conventions of the fall cones, says 1. A. Swers, vertable extension specialist at the College of Agriculture, University of Illinois.

Out-of-tate speakers will include J. G. Millard, who is in charge of soil potato prification work at the University of Wisconning I. C. Foffman, widely a secunized authority on greenhouse vegetable production from the Chio State University of periment station at Woodfer; Walter A. Marion, of Tolumbus, Chio, past president of the Vegetable Growers' Association of America, and Carm Drewes, of Decroit, Mich., coof the leading plant geneticious of the Verted States.

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Too Heavy Out In Dairy Rations Lowers Hera Profits

First prices may be advancing factor than the magnet walnot milk and leave fat, but Illinois dairymen who attempt to reduce one need by whim, increase much on the grain fed their 1,111,000 cows may find that they have also low red to ir profite, says C. S. Rhode, chief in dairy husbandry extension at the College of Agriculture, University of Illinois.

Some revision in the amount of grain fed chall be made on a number of feets to meet chanking price ratios, but where the comproving sacried to excess the results

are likely to prove disappointing, it i said.

This has been revuled in experiments confucted at the Y. of I. College of Agriculture in which three groups of howe were sed bif. Fort ruliene for a sour. In group received only alfalfa buy and vilage. Another troop was fed bay and silage your one pound of grain for each 4. " pourds of rilk produced. The tird group was fed rather heavily or grain, receiving one pound for each . I pounds of milk produced, but was given only a limited amount or hep and silago.

At the entire the good, it was found test the time of thing only roughture

produced an approximation of 19.4 and of 19 willy, the on limit 3 grain feel was 28.3 peans of mile and the mass setting a company professor in a respect 32.9 a lamber weight, the cose a certain a limit that is a time a case 3 is near profit above find over, these find only roughs. I to discould in spots discount, and the group getting the heavy grain combination notted that I all profit two the cent of feed.

When the value of the milk was married the cooler or profit bleness of the three roups was changed to shot. Wen the rifl for figured at \$1.50 a handr deciset, the limited grain cover continued to return to rest profit, or \$48.31 much above to coat of ford. The large plan or aplant due and rish a profit over food expense of \$45.79, while there for empy a manufact of the few hearts in record of the cost of few ar

The grain was firmed at 300 a tor, heg at \$40 and libera at 30. Thus the average cost of find for the receipt case example to \$1.80 ever, the limited grain animals \$10 . I and the group receiving lib ral amounts or grain \$115.74 each.

. M.

Illinois Grovers Finishing Co. 100 Quelity Tuck to

Illinois howevives will not have no depend intirely upon Texa, a superfed turknys to trace their Thankseiving Dr. Minners this fell, for Illinois growers are now finishing off come to the selection of the selection of in confinement to produce exceptionally has another a selection of the selection o ist at the College of Agriculture, University of full sic.

Illinois has been producing about [1,000 totay annually, according to tramost recent sensus, but most of the turkeys sold to Illinois consumers have been shipped into the state from western range areas. During the past year, however, Illinois turkey growers have been ecoparating with the W. of I. and the extension dereice in an effort to produce birds of superior quality to those broughs into the late. Furthermore, they have arganized themselves into a state as accountent a classic Paisnois consumers on the better quality of turkeys green in this state. As a resulf of there off rts, fully of per cent of the thekeva crosses a in Illinois in 19 % but to a raised in condimum of all a the best of contraions. For why the other innotate must that their Temporisms Deprivativial to tell a and well is incidental ack for V Illinois-grown turkey when making their purchase , said Alp.

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Timely Notes for Farm Advisors and others from the Agmoultural College, Experiment Station, and Extension Service

Volume MIII

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Fortpaths for cent of the post of the first transfer will be into a local from the reverse of cholers can be set it to I in it to ear, at the how their rigs voccin today tomas rl. our mather than walting spail of rose mile airs, says Dr. Robert Graher, whise in wall a storage to be bound on the Call of all Asriculture, University of Illimic.

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insurance, but producers generalists will the actilities just which the descents or more before having the descent of the delication of the original beautiful the descents the original product of the bigs have been visually about a delication of the original production.

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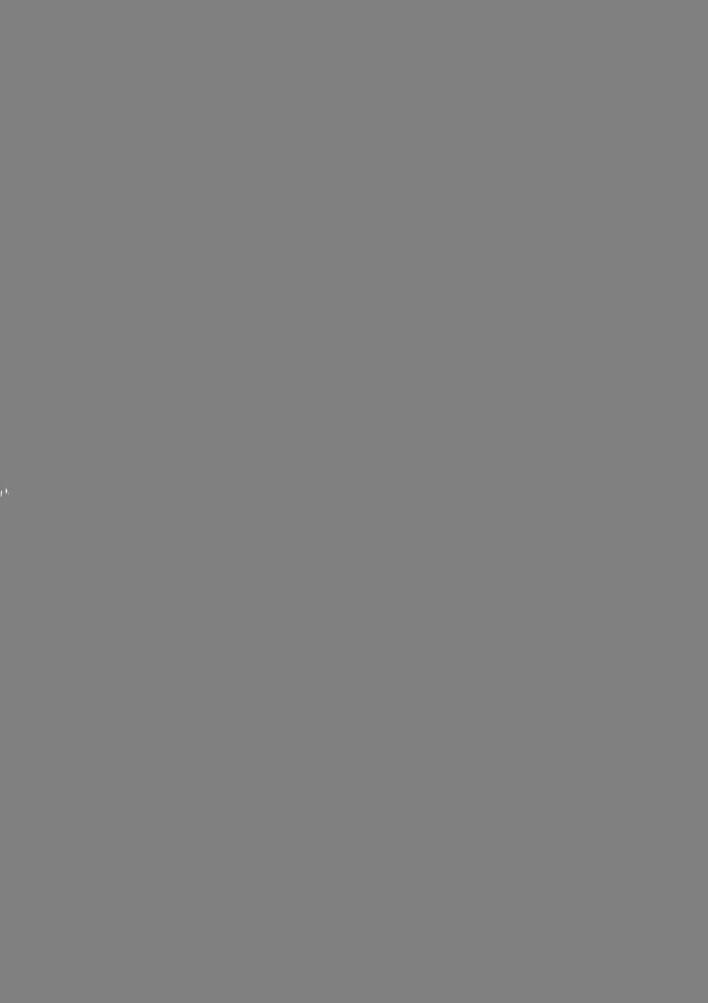
Sharped the firm of the delighting the fifther to exhibit and if the species tible to cholor, but and a label to be propertied the second the dament the time of verscinction belong incluence that the lemma of intuity. Instead, if we beginger that the susceptibility to chalker an early we do to force yourse been extend by the prosence of neutropecial capacities, and other larger two sites and pig ty hold, which treat down the interaction in the larger. This the larger is the terminant service to diagnos omillo diagona of libratura ao unai-logocha em service dia at the grower tile, bit wire our believanis for last partition of mittle one office, Dr. Graman believes.

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This fact, which distress in the ormanic event when the out of section conservation, has never been a construction on the imply than another formal Theology Remark, Bell wills, Dr. It is not in the original transfer and imply that another for the successful standard with the construction of the successful standard with it is not in the section of the edition. Septiminary that is not the successful standard with the contract of a view engage of the edition, Septiminary and a section of the section of the section. and seed washed away by the girll of arms a gone before among our mit attacted. If n terroced field is its distely than to be except as, the terroles be the second soutled and established so that the will half to easil from serious erroign them corn and small grains are least of at t.

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Reuss built five terrores correct this field in the error at a solid resident period it to obtain a secured to the common this field in the control of the c

term dec, but he now eachieve the well-served all the entert is gain a in a struction and emintenance. At the gulaine the term we have a three three as were to the served to be rebuilt with a suignorm ser. The more additional and all the three title confirmations be formed to the write. There exactly a viscous cline in the contlet ditch, but exoperly built brack decay a content. The best allowed treathers. So, exhibit this field on the contour one by ban Afarrowing to the rilars with the bestless. Rouns new has no difficulty in winteining the time eas in good chitien.

Hot School Inv . Theiring of the In Aural Cillings

Illinois 147, in more adverted our nationals have teach called an our bett r grals this wind r, in all of the contact we take at our cot dish with their acon-day lunches, or the comismos discollered A. Hoderber, foods on dislist t the College of Agriculture, This route of I'lingia.

Only to correctively for of the int I take I in the attitudent let brocker in soite of all that has been done and walk for this arectice, she resorted. In recent years some rurel tenchers and percetail, writing contain, the area data had cooperating with the M. of I. how accompage over our in by ladacist of the providing let school brokes with the famous control time, were an expense.

Studies have in these only is found in the but burden willing that the Teremer, the prints in the population and a second to see the second with the form required. Pewer colis, improved were in determ ligarities and the more than both. outils in teachers have been intra. To share also report there to the same increased inter st in school activities on the a pinturing that number have also after the proctical means a rescaling that the color of a feither and free libits, econcilly what the children are made will if the respectively a food emplaration and persiec.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVII

December 5, 7 4

Number 48

Investment Mode in 1. Stall Pays, This Tanner

Four grand ag, just when other investments were shaky, Garl Bormet, a Cook counts investment, jut some coney into an investment which he says has turned out to be the best one that he has ever make.

He invested in light me and rock shorthafe, just as hundreds of other farmers have done who have followed the tea hings of the College of Agriculture, University of Illinois on the testing of sails, the a reading of limestone and phosphate and the growing of more legumes.

This mean in a fite of the severe or the hard acress from produced plenty of home-grown teel for his 40 hard four years are arounded about two and a half heads of alfalfa hay to the acre for two lattings this pear, which will be a right to carry his cows through the winter.

Like hundreds of other partor the have at lied limestone to acid soil in other to grow about the sweet lover, Bornet is resping the advantages of a very practical wind of broth insurence, it is pointed out by C. Mc Binsley, soils extension specially of the U. of I. College of agriculture. Bess fortunate farmers in the state were concluded to but feel even during the late spring and surver because they had no about or sweet the reasture and many will have to continue to but has been and rock phosphate program corried on in Soc. on any in past lears, however has meant the difference between basing hun to sell an having to but hay in the case of many farmers, reports. Farm Adviser 1. 3. Barrett.

The testing of Bornet's soil for acidity and available phosphorus by M. P. Docher, assistant form adviser, was a money-saving guide in planning the alfalfa ore. One ll-acre field produced a good stand of abfalfa with limestone alone. So I tests made in this field showed that there already was a good supply of these horus there.

An adjoining field, however, lacked both lime and phosphorus. In time all but three acres were limit and in addition half of the field was treated with 1, bounds of room phosphote to the acre. In 1953 that portion of the field which had received the hat yielded five this of alfalfa to the acre, while that which get only lime produced three tons. On the three acres where neither limestone nor phosphote had been applied the alfalfa was a failure. This year the phosphated 1 at the a ten in acre acre of alfalfa than the rest of the field.

The literatore and phosphate continued to return dividends this year even though it had paid for itself the first year. Approximately \$5 worth of limestone produced three total of alf-life the first year worth at least \$36. The 1,000 pounds of root these hate, costing \$3, used in addition to limestone, produced an additional two tone of alicus worth \$4.



Fruit Grenore To Meet At Urbens, Describer 1 -14

To a liance with folder I resultion on the a strong reflect from grewers of this state is to be the adjuste of a maker of discussions, when the of the Illinois State Herrical tural Society held their 77th annual winter necting at Triana, December 1, 1 and 14, seconding to contract weaking by the John go of Agriculture, University of Islintic.

For sew rule were increased in two relations on the accuming oping residue that may be a from a pleasure of an interest to universal have been a problem with Illinois gravers. It would take a solety's makers in coming with this difficulty, W. A. Ruth, this is not a first the following taker V. of I. College of Agriculture, will happen as the program to tall of the open risental contains in residue resourch. In a division, Albert V for, so the Nov I may Agriculture! Theoriement Station, will discuss the convices demands, process as his parts in helping then neet the fador be stable in a

Fregress of the federal and annually end of the section future influence on Ithing a property to be personally F. H. Distance of Education past (residual to the International & Is The error to residual to the International & Is The error to residual to the tooleantherity.

Along the more here to the thin wipp more could be dest. Him, i. as is assistant publiclegist; W. D. Films, the more he let the Hilling State I to I to III. History Survey and of the U. of I. This go of Application of H. I. Free Hollen, prominent of the state division of at the relation on the relation. They Hollen, prominent to the grower of Yew Surveil:

prominent of the grower of New Bornsid.

Calliders of the one through disting a called in themptof the convention include: George Gnorl, Derri, or one at; 5, 1, 3 with, 1 line, care vice resident; Fred Heaten, New Bornside, and add to result to Arthur Holt, Coringrical, secret ry, and W. S. Perrice, Controlin, tracer r.

Emoty Stell In Dairy Bern M.; Protest Prolits

Exity or atalle that have been applied by continuous and an inverse leving cover have no very been as a profitable for Ellinois lairman we then a ill be able winter, seps Prof. 1. 3. Elade, this in definations is a national to the Pollogy of Agriculture, University of Ellinois.

With the price of feels of a ling to rise a other than the maint value of daimy products, and the bestor producing olds will be profit blownough to return stall. From Roods smil.

Form Illinois deirymen are even unising the ampliant that they fill to , or ago because that have cheeped up on the or flation recents of our in serie, have only a out the last reference of last their or like a transference.

out the live primers on heat their sollowing, it was recented.

This is true in the absolute later one merter of the Granders Conty

Dairy Heri Improve suit Association. He willowed the granders over with a buttor average of florouses during to to This year he will do the lewest months and the same with an ever grander of but or rist. He was a few to be sufficiently in the stable in his born, this stimp, and we would be a considered costs from the loose in 1554 that for only it is not the mumber of stable that over till do to the industrial of the stable o

It is not the number of stells the core will die to include we attend are in the other laternines the dring incres, While cointend two. At order the relative price of dring products as an order or or in its but as a world on your. Moreover, in some scations dring and made of each of the conic action of the your and if grain or roughage must be shill dring, it is brown to be incomical. This makes conditions, it is a ractically in each be according to receive any or account course.



Christias Ori a Dir if Arcidiate 40 Well 44 Jay

Thristians is usually the harpiest our of the peop, but at the same time it is a day in which our accidendance are likely to occur, only a coeptain preductions are taken, says also Gladge 2. Ward, have controlled at the College of Agricultur, University of Illinois.

In fact three times as any intellities cause, by coefficient occur in

In fact three tiles and any intellities cause, by conditions occur in December than in the counth of July when the decime calebrates with firegradiers, Rown conditions the life. About twice as compared to it from burns, coulds and explosions, exception conditions, furing the less conflict the year as compared with July, and there are twice as large fire in fitties in the horse this worth as there are in July.

Quall light to mike any right newspar the Thriston. tree, but they shee add one of the part purished aims which had the haliby careen, noints out Miss Wari. Light-weight actorial, tree decorations or even "Santa Thrus" himself our catch fire from the condite.

Condica terming in vinious with local partning or equally languages fire hazards.

The growing considers to of tops to be charged by counciling the swith electric floor and well scale to have also also to the discount of burns and fatalities in the home.

Falls from inplative common lit, it is in light bon they are covered with snow, are stong the cost con in achillate of the polatide states. Although it is grive an unattractive represented, sentiaring asker or could over the ine copy present a broken arm or leg.

Share and builty type left on the Char, atoirs are in a formuly frequently cause injuries to those attracting on the alway the rate is derived. Thus, always eliminated this diagraphy having a regular top ben in which the oblighment close their playthings before going to bedome, sight.

Highly-polished, what I flacers and inprofess for a receipment that increases the danger from fails.

Putique from desgine late hour during the helid processor and the hurry associated with Elmintane are protions are likewise analyzive to how madilents.

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Tox Elier Due: Best Hilled By Dicerine Surey

Although box elder buys entering Ellingia haves used inli is not a use to foods or fabrics, they are a nationale flat or a life of beat by the own or nicotine subjects a my, applying to a mostine of Ellinois, by J. J. Fling, this was along to determ the St to I turn! History Turns.

These little redered block insects are nowelly uses iterated all contributions along season. Here frequently then any other so were in the first interpolation of the crowding winter stather. They cally wish to obtain switches protection until west arring when, in the newel course of events, they will leave the house and return to the base elses there are the last spaces for the 1995 spaces is broad.

The fact that the bage do not feel a most in the in the house own, the all the wore difficult to erabicate, enclosing Floor. Only localizing their be is a with a contact correct they be willed in on, large numbers. The best computer this purpose, because at with a all the locality of it, is now by indicate the special of Waper-cent misotine subjects in the error, of soft outer is all the bas been previously lieselved an allest order of a content of the standard of the should be thoroughly mined on an allest in the estimate of the standard of the strong misotine dust is also easy ative one is a setting a circust, and the

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Volum HVII

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Most His R tions lestistent On y and Salt And Cal/citin

Int. m to impress relief, not athoms fed to the more than 4,000,000 Lena .. h. v. ni on Illinois from this time of year contain all the minerals nece of the restit the grown that wall a calcium, says W. W. Camboll, chief in the line of the latter of latter - University of Illinois. Too many project the color - the feel maneral supplement they can safely neglect the confident less a governous of explains Carroll. There is no substitute for conit tron, but need rations, governous and efficient management, he points out. Himsels is easily but with the exception of common selt and calcium the see found in apple portions a most most most man.



I. Of I. Develoy Tow Gri mirrore Mounts Describes

If mend in the device the of preenhouse the to swill coon is made the increasing the first and Illinois, concrete to a result of plant broading work concrete in at the College of Agriculture, University of Illinois, at it conscioused by W. A. Massey, associate chief in obseind there.

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To real temporary with this problem, the four Lordon three appropriate crossed a problem, a Hermitel constant which the results of all photon flag vergeties. The Blair Foreign and the Flord forming to the results of 14 generations of relections onto it to a constant. Forth of the a variation are moderning at the space of 1.1 powers of the first the new restrict of greenheld a space between December 1 and February 1, which is even then twice the right of attained from ordinary warm the planted in the same induce. The to the constant we want the better the attraction and the reight. In the coing in First week to a very fine for some each, and the ields to the range cost of a right to the pounds.

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Coth mis Hit Pr Solly Down it in Course Of A Year

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Only thorough applientions of oil or line-sulphres spage this winter will prevent the interfront taking a heavy toll in the state to 1935 figure room, in the said.

Forty-two per cent of the apple and "I per weight of the exact or hards will not arrow unverted therein a dear to to a serie in set that of Son Jose scale. If it is a favorage of a set of order as infer to d, as nearly twice as many as were found by the 1960 for a survey and nine times as any or in 1960. The increase is set out to be the result of the noderate winter in 1905-Aq, to too or his edge on in energy or for the port year of to a long, which is due to a this fact.

Brita In Austa Ford Times Burn In Dan Surv. Inco e

A furnir's head may ending be worth four times and the rest of his tody, then it comes to producing the following to B. F. John-ston, of the furnithense tilitation, Dillege is agricult by, White stip is Illicate.

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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

V lume XVII

Number 51

grain or Artivity Way Commisse Toward In Nedr Farage

Incode the coording discours Illiquis darmers is What the trend in business ectivity and rear is likely to car are appeared in a moderate degree during the near es, fellog of Agriculture, Three rests of Thinous.

In the total volume we consider a lighter during the closing norther of the total volume we consider and dainy products would have added not the first orthogram of the constant of the consta

layering is about their result of the first of the second theory as the second to an analysis which were compared and paths of the first of the short of the first of the first of the first of the short of the first of the firs rice work of real; for each Challes in was as were registered by other prodcts.

Short recept and cities a term or prospective shorter supplies of livestock or the riscipal factors of ruting to asse the rise, Dr. Norton said. Also contributing to the increase was a stightly heaper dollar and slightly higher consumer incomes. Factory payrolls wasted 7.5 per cent of 1925-1925 un October-November, 1937, and 10.7 per cent in October, 1934, or about oper cent higher than a year earior.

Compared with the se of the two previous months, prices of nine of the 19 reducts were lower in Capaber and November after allowance was made for seasonal dariations. Eight were higher and two were the same.

Real improvement in companier income, which has a strong bearing on farm rich, must wait upon a mine revived in the constitution industries, Dr. Norton redicted. As yet times have shown only very moderate signs of reviving. The high ow on construction costs or help outs as a brake here, he said.



Bridiline St II: Discript In Mot Fiel U. With civilien

Contrary to the subjictions of point or main and with interiors, the co-collect "cornetals disease," which has been diffing bundred as here a on Illineis this old. ja not botullish. Kr (60) juis a lum.

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

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Volum XVIII

Jamary . 1 🐗

Number

Arightural Cutlook For 1 1 7 - 8 More Red deing

The could be for Illumis agriculture in 1 of is more favorable financiat has been or the cast law we is, but there is still a number of tank spots in discoverage special according to the casual attitude of the control of the cast law of Arrivalture, University of Illinois.

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A brief swining of the essection for tweet of the out-one report follows:

From family living—"are acres, and alls for replacement of much-needed swiplies and equipment. No great themselves are in the prices of goods for family use.

First crips—Frequencies excepted to increase materially. Feed available, a held, is now much below every as. Acresses of eninon-bug resistant crips, such as someons, likely to be increased. I ring grains should be sended early

Frn-Brue correage inchess and cinatel. With average yields and fewer livestock, corn misses by be expected to decline with the new groups

Oats and burley -- suction on of these, man icularly barley, precamious, because of chinch buss.

Wheat--Average wields will the tern expertable surplus. This may drop prices to the world level, and large printities robably would be fed.

Soybeans--Inne intre se in 1/75 acrees is to be expected. Increased, production and larger supplies of feedsturis, which will be available if growing conditions are normal, will tand to lower prices on the 10%5 sowbean erop.

Dairy products-Long-time outlook is for a gradual increase in prices of lairy croucts as consumer increase. Marketing of dairy cows is now tending to reduce size of herds.

Prolitry and eggs.—Poult profit in position to stay in business should profit from the reduction in flocus that may occur as a rest to high need costs.

Her and pasture -- Retention of old meadows and pastures of fair stands is surrected on account of failur of 1.74 sedings.

Forage seeds -- lind seed gree - in a lover seeds on a lind en dent such in the line-year period of lind line the most seriously reduced.

Vence. We neverage yields for the 1935 corn crop, the most come ratio should be favor the to he the relief in the last new morths of 1935 and in 1936

(Continued on Page 2)



Beef cattle--Numbers reduced to approximately the low point in the last production cycle. Low supplies of feed will brown to the usual amount of feeding and will result in higher prices for well finished beef in 1935. Maintenance of established breeding berds that can be supplied on home-grown feeds and roughees is decirable.

Sheep and wool-Scalinerage in prices is expected during 1%% compared with the last half of 1%4. Theep numbers have teen reduced by drouth conditions.

Horses and mules—Prices for mall larges and mules have continued to advance. The rate of decline in reabors is being theorem. A good demand for chudis and light draft horses is likely for several years.

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Illinois Driven Justline Fords To Lower Expenses

With grain and hav sumplies half some and high sciend, Ellinois deignan may have to juggle their evailable deads into on a selectional national national selection this winter, saws A. P. Frank, according their in dairy estitle fielding at the localism or parioulture, based site of Plinois.

In sections where the supply of good legames is limit to be the results will be obtained in formers will feed a all amounts of it each day during the winter, rather than give liberal assumts at the beginning and and all the secons, rounts out Nevens.

When silent is lentiful and but is made, the illuminary on used to replace much of the hay. Libraries, if the had as rule and the sings is a too, who has ruly be used as the sale nouthness.

When before remain common [west] as if all the find stover we will with some legume may, the grain ration chould contain to \$17 year contract of ut, potent. When good quality alight or above is there blo, the grain runt as need not corry some then lot to 14 per cent total protein. If the cettle receive only a low-grade, non-legume hay and stover or strow, the concentrates should contain from 16 to 17 per cent total protein.

Feeding tests at the U. of I. College of agreed ture invicate that cattle do not utilize ground resultane any better than they do the unground.

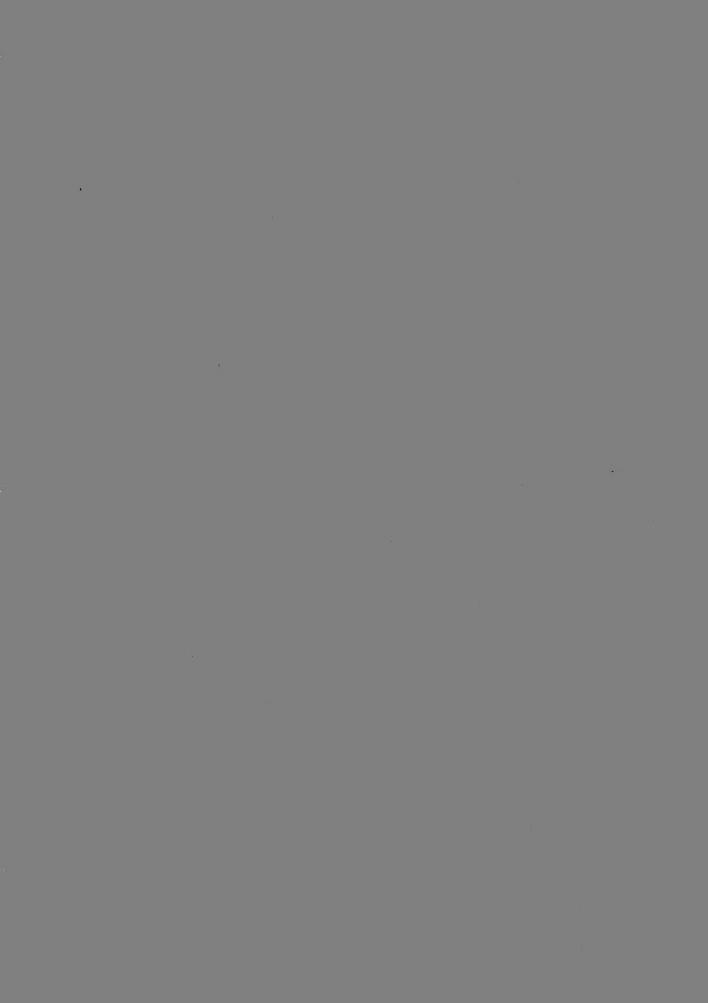
If plenty of corn is available but the signly of good legume buy is limited, the grain problem is largely one of colecting the high-partein feeds. Inthenseed med and soybeen oil well are about answerfth rare valiable than linseed model as sources of protein, while ground sayon as are an estimable charles. However, it was so will be the factor is to inling the chaice. However, it was so will to add some other feed such as that have a diddlings, says Hevens.

When grain suct be purchased, dringson should been in find that corn tool wheat are of equal value, pound for bound, in dairy could feeding. Onto, or weight, has about five-cirths as such value as sorn. Wheat bran is the best substitute for outs and may be character price.

Farmers who are able to buy set browers' grains should consider the fact that they contain considerable water and usually about one-fourth the nutrients contained in the dried grains.

Preventing Falls Would True 1 % during of The Y of

A New Year's resolution every Illinois homesmore slight soll estat the head of her list would be to help prevent falls in the home, which in one seem have whiled as many as 13,700 people, it is suggested by Misc Gladys J. Word, here management specialist at the 60 lege of Agriculture, University of Illinois. University in homes claich in one jear hilled 13,70 people might have been reviewed. Miss Word believes.



Supply Of Fornce Seeds Only Half Of Five Four therige

Only about half as much gross and clover seed as in the five-year period 192 -1932 will be available to fareers in Illinois and other states when the soring planting season opens, coording to J. J. Hacklewan, crops expension specialist of the College of Agriculture. University of Illinois.

About 1.7 million pounds of such seeds are used annually in the Daital States, 35 million younds being sown in Illinois. The 1934 production plus the carryover from the old grop, however, totals less than 150 million pounds, or about 44 per cent of normal needs, it was reported.

Timothy, millet, sudan grass, laibt clover, red (lover and awart clover, in the order maked, show to be the most personally reduced).

The outlook for the sumply of gross and clover seeds as summarised in the annual state outlook report just related by the agricultural college follows:

Alfalta—Supplies of seed will probably meet normal planting needs, despite a 1034 production well below average and in unusually small correspond. In unprecedented heavy seeding of aliable was made in the late summer of 1534, with the probable result that a somewhat smaller than normal seeding will be made during the coming spring. It spring seedings are normal there will be a deficit of about a million pounds of native seed.

Red clover-Avaisable suchly bond 20 william pounds or merting the bracker annual consumption in this country. The 1964 production amounted to 36 million pounds as compared with 50 million in 160, and 79 million in 1982.

Alsike clover-An unusualty small carryover and a short 1932 crop have usde the supply of this seed extremely small. Frices are likely to hold fairly high.

Sweet claver--Although stocks are the shallest since the crop began to be grown extensively, the rapidale supply is considered about equal to the average annual consumption. Prices will mean strong, but not so high relatively are either alfalfa or red clover seed.

Lespedera--Seed production is 1/34 is estimated to be one-third less turn in 1933. Seedings last spring were much larger than in previous years, but the increased acreage was used largely for hap and masture and less seed was harvested.

Timothy—It is estimated that approximately I million pounds of this seed were harvested in this country in 1934 as compared with the four-year average production of something less than 69 million pounds. The available supply is some 36 million pounds short of normal annual condinseds.

Kentucky bluegrass—Seed suplies seem to be sufficient to meet normal sowing requirements. The 1935 carryover was large enough to overcome the small 1934 crop.

Redtop-Seed is ample to meet all normal sowing demands.

Fillet and sudan grass-Supplies for 1935 seedings are among the smallest on record. Available sudan grass seed is around 13 million pounds or about 55 percent of sverage annual consumtion.

The outlast report suggests the retention of old meadows and mastures where that are fair and the conservative use of short seed supplies. There probably will be a deficiency of how areduced in LAMS, awing to drouth and close grazing of meatow, in 1944 and shortages of seed with which to supe new studies. For ago to curves will be further depleted by probable early grazing of matures next so that, the report points out.

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COLLEGE OF AGRICULTURE UNIVERSITY OF TELLINOIS

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Volum - XVIII

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Wet High Ame June That Only House Agreement Chaineh Prign

Chinch buce, which took on estude at toly of more than it will ton tollars in the 1774 Illinois form orresplant, threat not be corse even most of the state. in 1934 unless that and Ture are able and wet enough to will the off, a conding to officials of the Tollege of Agriculture. University of Illinois.

W. J. Flin', phing such a print of the Il inche Stage Withral History Survey and of the agricult roll allow, he outlined the lines of attack which

famers can be the entire to dellar in condetting the area.

The first stee, we say, as to start the east of some as of energy on which the chinch have to make the some series, compets, buckwhest, race and other norm, race from.

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and corn fields when the could be its to browerfed.

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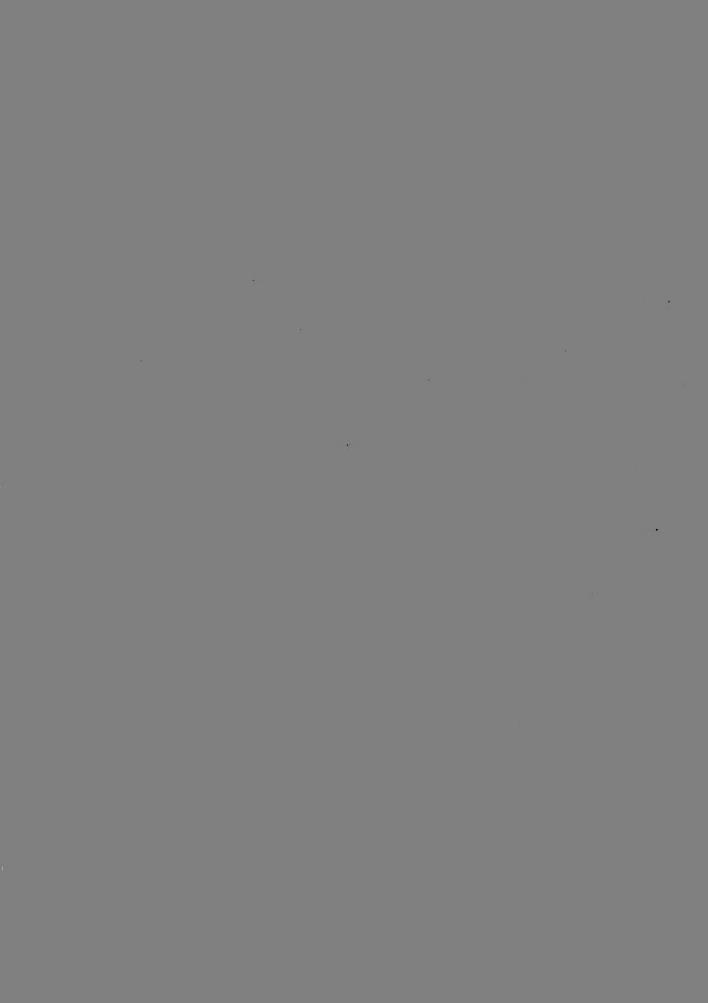
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more and them than in annual and a companion of the Annual Annua first of More, and it is looked if the look because with comid be fore would destroy a mark of the host of the bost of an error and the asset of the bost of the bost of the market of the term of the coming year, the authorities says.



Longed go Seen In Grains Makes Good En a energ Her

Faced with the rollen of croviding on on come. For or pack re-crossin 1935, because of the drouth but camer, Ithinois flavors are find the a pation by seeding Norman less addition, winter whose or mit outs of mit this syring, are only J. J. Pieper, according to his air crop production at the Collect of Agriculture, University of Illinois. Although the production of the result of the man about a third less than in 1965, there is probably enough to see the all through in 1965, it is believed.

More than 100,000 and of legacian was agreed. Illinois in 1994, or approximately 600 per cent uses then in the ending of r, it is estimated. Thus with such a large correspondent one in the attack, this continual enem legame has become one of Illinois! recially proving any a.

Kerean begradous may looke seem lone on land term is not too we dr.
This is especially true of the light-relor a scilar of continue Illancis where we do
are not serious. In this was the green is souded on him a conjunctivible. When
lespedeza has not been ground fore, the greed should be incentived.

To make a harr erep the first accord, begaders as which covered the rate of 25 pounds to the same, either without a common a crop. This may be done in early March on winter grain or at the time enting stain is leafed. When so being made grain about one-half tun of high made. Appears a feet instrument, while if sown along the may yield man total to tone or more.

When Korean 1 condend is socied at winter which or life beta, the grain may be out as hap ar allowed to ripon. If he note it, the product will large two emergency hay crops, the what or rate is May or June and the respectors in late summer or fall.

Where a species were sown is 100+ and a good welcar or stand is resoluble this year, the field may be disk dead plented to buts, which is other could reach this spring. Tests at the U. of I. College of Agricul was been a sould that the disking will increase the field of I grains a torically, while the commenion crap may be planted and hereested a set al. Thus the form r may proceed two crops on the such land in 1957 with but little or sparation onlexpense offer than the cost of the grain seed.

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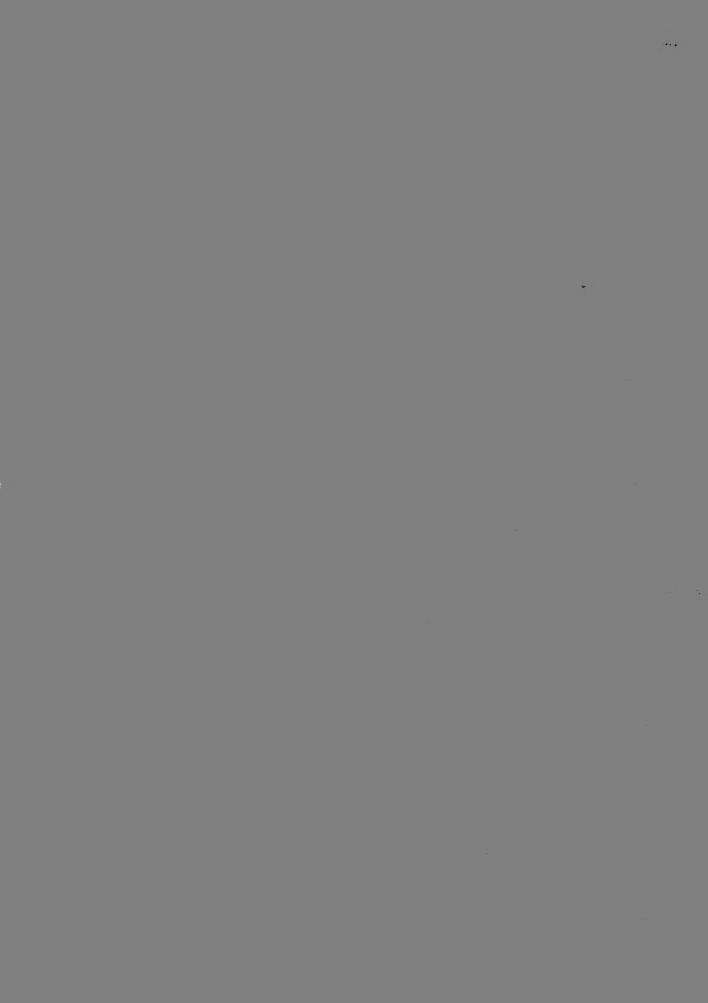
Jordon Fed up a Miten Owwood Dr Lack Cl Elemans.

Inch of planning is the indirect course of all for many failure of Illinois sardens, which is properly mone and said to casely be the word profitable some or the farm, mays I. A. Sement or extable sorder extension as rejection of the Call to of Agriculture, University of Illinois.

Detailed plans made well in advance of plantia time make it corried to take advantage of feverable mostler conditions, give more fairlent were in the garden was and often reduce the labor regional, hall of more tell to the profitable more of the sources.

Proper limning can best be done when the Jan. by the distributed in its parties. A pleasant evening or the can be spent in selecting the varieties is said and in making out the seed order. Then when April comes, the problem is to take advantage of the first good planting lower.

In January a drawing can be made of the reat, a wing ter land as different vegetack sats they are grouped according to the instanction of requirements. The succession of grooms, calads had belian a succession of grooms, calads had belian a succession of a nined as well as the headed quantity of meh. The sami consultable has be also be view of the crops to be canned, there are be stored one transfer as the form.



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Stupping Labout Damage Seel as Rise In Flod Co to

Any increase in the cost of food which the bit he may bring an beginned ally effect by stopping the masternov being council by incret Camego to but Cloud products in homes, stores and other hested buildings, says U. E. Parrur, research entomologist of the Illinois State National distory Council.

Controls to the body field by many people, as we embling conditions the damage done by indects to stored leans, people, rice, because . In fact it is difficult to find a home, process, a section of factory that is a not leave at the star model infestation of indects feeding upon the difficult reducts of measurement for the John Reference of Agriculture, University of I limits.

A forgotten condy bor, a case of enecelete, a bag of counts or a slice of dry bread will furnish itself the diagraturist for a world of the cost trouble-some household peaks. Examining a food backage to raise some that it is free of insects before pholony it in a employer is a party on them. I add a consects in any food product can be destroyed by contain insects. But this is four contain in the contain the product can be destroyed by contains any food product can be destroyed by contains the satisfaction in a contain these houses at a temperature of 100 3 grants For removit.

When possible, I representative of feed products a bull be atored in tight containers in unheated rooms or luildings. For team returns prevailing diremphont the colder months of the graph will reluce to activities of most insects.

Beans and paus to be as i for a sed can so protested spainst veryll damage by mixing the seed with hydrated lime at the rate of limposan as of lime with each bushel of seed. When large quantities are atored in sight bind, rixing a monty deposit of lime into the upper six inches of the beans will arose at then from insect damage. The lime does not affect the germination and map to analyse of the person beans before they are used for laws a food.

- a M/--

Winter Proture to Aid In Utilizing Poor Loveleges

In spite of the fact that all and winter postures in Telimin have exceeded all expectations, livertock producers will do more to conserve them an angula mentary field to charp roughlyon that may be evailable on the form, according to F. I. Robbins, livestock extension appealable at the College of Agriculture, University of Illinois.

After the arrival of removed rains in late August, continue and who usually heavy growth during the full, and when not covered with chow will still ampoly conciderable winter food. Furthermore, livestock getting proture one campion roughages to greater adventure than much given the low-quality to declore, coinca but Robbins. Cuttle will grade much fields were closedy as it better on them, if the mammals have the run of an eld posture at the same time.

Farmers are wired, resever, that too mach a conferre on winter a direction aight prove to be folice economy. There will exclude that be distinct of new eredwood in 1985, as a result of the drouble, too close are size confirs to a man. That is shown a distinct of and the shortupe of aced with which to make new condines. Thus construction of all important and pastures is an important consideration this winter. Now, a storest one wood too closely in 1984, and too heavy grading being the coming soring wonds anglet add further to the destruction of foruse recourses.

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Despite the drivital effolds one tracted by compal, with the fields estably yielding more than the overage for the last two iso den. It is a timated that there were note than \$15, and one may for a it proved to be a like-zover for driving bords.

Records at the Mt. Morris coil a permant field in Ogle abunty, operated by the M. of J. Coile to of agriculture, nevel that in a rotation in which infelts is continued for four consecutive part, the overage goods for the mat Sharehard box been 3.81 tone to the agree a war. The last did 10 pieli at 3.88 tone. There is mits were decured on land tulen had been 1. It and advance.

Union shall model conditions of the Mt. Mornis field, the long-time werege for red clower has seen kiew to the to the one week plan. In 1964 the red crower nurvest fell to 1. I thus. This was an including well had alover yield under the drouth conditions of northern Illinois lest succeed, here for fields produced are than a ton to the same. Even the lighter we take the 1t. Purple field in a contribution rent of the language we write for making the language turned but to a setter than the 2 - variable of the same ways.

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Timely Notes for Farm Advisers and others from the Approximate College, Experiment Station, and Extension Service

Volume XVIII

Jamuary 23, 1935

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Mew Experiments May Help Revive Red Clover Growing

What was once the principal and about the only laguage crop is Illinois and the headed for a comeback as a result of new experiments being conducted by plant breaders of the College of Agricusture, University of Illinois. Red clover in the crop. The plant breeders are uncovering new possibilities for suproving it so that it can without the hazards which have slowly been killing it out.

Illinois was once one of the greatest states in the production of red clover, out plant discases, insects and adverse weather have out production to neverely that the state hardly ever has even enough need to meet its own needs. Red clover failures also have brought on feed shortages with substance to dairyoung and stockmen.

Iso have brought on feed shortages with substituent lisses to deligned and stockmen.

Preliminary work by plant breeders of the W. of I. Corrego of Agriculture has revealed that there are extreme differences managical slover plants in characters that the important from the standpoint of successful production of the crop. Hardly any two plants have been found to be alike. Also the difficulture in red clover improvement work have been more clearly recognized. However, it is believed that plants can be delected and new strains built up that will be superior and restrict in overcoming present azards, it is reported by Dr. C. Y. Woodworth, chief in plant grounds. It the college.

In the past your breeders have souded the red clover erop tendere it is so and to propagate under conditions of controlled pollination. The plants are almost entirely celf-sterile, insects being depended upon for yellination under field conditions. Hand pollination can be done on a small coale, however.

Evidence of neglect of this crop by a nt treeders is seen in the few distance strains now existing. Red clover seed is a conglorwrate mixing as to color and will produce all types of plants. When the plants are spaced so that their distinguishing pharacters can be observed, they are seen to differ in leaf workings, flower color, growth habits, winter hardiners, resistance to discuse and people say

-11-

Ordining Garden Se d Early Outs Production Proposes

Always a good proctace under normal conditions, ordering garden seed early takes on greater importance this year in view of the possibility of a sourcity of a number of vegetable sends have B. D. Weaver, obsticultural specialist at the College Agriculture, University of Illinois. Weather conditions were none too favorable or garden seed production lost summer. This not only will make it introduce to order arry but also to thack up on any holdover seed that may be on hand from previous easons. Such seed roughtness gives a higher germination test on new seed.

It is impossible to predict the hazards of the coming season, but if the itality of the excite them it will be excited to get an adequate stand it less appeare than rould otherwise be possible. Higher germinating seed may be sown distance, bus making a material saving in the cost of seed as well as in the suppose of the rought the rows later on. Ordering east, allows plenty of time for testing and adjusting a case the set is of a weather.

Carlenors has taken found that keeping a cool inventory is helpful as etermining the seed where each name of much seed one purchased the data is well a the packet, and is as insentory loss is entered the name of the variety, amount of eed bought, the cost, the same of a second and the date of successed. A given of this ist in January reveals information that will assist in maining up the present is eed order.



Vol. MVIII--No. 4

Francis

It is that army "all Entrot Beach Cros Every atc

Bloom buds on Illinois reach tree: I is winter give prospects for the largest harvest since 1981, and growers can protect their cheauss for a crop by appropring or-chards now to ward off possible leaf ourl durings told appriage, says Dr. R. W. Anishson, thief in posselogical pathology of the Salings of Agriculture, University of Illinois. The 1931 crop totalled 4, so fill bushels of Lucy at SD, Lucy. Company total lives Early synulogy a casestial beauty at the fungus which come as leaf ourl lives

Early of rungers issential because the fungus which courts leaf our liver over the winter on the bus the and my of at a univertion during worm down in February before the budy are completely ope. Dr. Anderson pointed out. The symptom be applied at any time when the temperature is the order of a cold wave. Some freezing at hight will do not be an all the model of a graph at the rate of one gallon of the liquid consentrate to eight gallons of water may be used, but an orlappay in Bordesay mixture is prefer blo.

Then left galient of the oil of lation-Bordeous agains is prepared them, the tank chould be putibility filled interpret counds of powders is comper subthate added while the egit-ton to maining. Regative that provide the lation is a part with a cittle water in a part until at force that provide the shift it is attituded into the tank. In another container the engliches of atom oil equipien is nined with an equipment of water and powded into the tank. Else hearter is then suded to retain particular, Following a few alimits a git from the applied to the detection the trees chould be covered with the quality insure consider control.

If applying is neglected and to couther turns formable for the few elegment

If aproping is neglected and a contract turns for orable son the development of peach less curl, the bright outlook for 1986 ye charatures might each partitions. If it is collocal raing to the bride expand this warms, the infection is likely to be a sore, while if any, were meether your last for a week or so, no great image will be done. Since it is not you like to you'll take weather accurately, it is never sofe to emit less our appropriately for a rain appropriate measure to apply doment appropriate for San Jose scale is about it as much littless ore hards and the same application may be used it took scale and be small.

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Forest From on for Itlings Would Estime Jobbs s

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Volume MVIII

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R. R. Addis, a research of the tooled exerting three columns, who considers the transfer to the angle of the title is "Joseph Jevertock Markets in Tall term to Carr Selt Legal, resting."

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jorner in the tarmous or Keneu till got nil i belief hopen file bedoug they have reduced bog receipts it to man is entete on sent of open and however or sortion of nogalizated to the prokers, they also borner this redict, on a core of interest terminal a method they have relieved by a constitution of the constitution of the

Alone with the tell-elegy to the hology prices, ather to jor distribution of social markets of the social requires ander mon-compatibly social conditions, no materials of regularity of the not difficult the despotal of the tell, as for the despotal of the social tell the price of the social tell to the social tell the social relationship and the social relationship and the social relationship are returned.

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ind control of legal livestock markets, land; cound.

"Stadman could - loo their liments on a sacting profilers of the conscious subscited transfer of the conscious profilers of the conscious confort models than the not consume it.

"The had marketia, costs rould to make a both to me make (1) by constant time sivestock constantments in the hends of a such constant before a compact of the first of a nabling of a resining ones to open a both more aconomical and to a first of the land (2) of proceeding stockers are constants to make the first of the first of the arms of ficilities required as a constant pairs to be made if the both the females for other area.

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Vol. XVIII--HC. S

"Loorly: The ting cost of the reduced by decreasing the same most good markets. With openent-day road and truct facilities it is their most, to come as many local parkets to the law stock and outputs now may obtaing.

"Railed de duli did in the colution of the local permit rections as resting terminal markets in-transit above the javan probable, however, that such metion will be taken.

"Ficking could probably connect in guilities in loss prices were it in the conflicts of inverse thethern deport at problem groups. Moreover, from the standpoint of the stockers, it is desirable that the problem be solved by other means.

"Finally, the U.S. Deportment of Agriculture, under provisions of the Agricultural Adjustment Act, could fourther edinate to such me such a might be associated and the existing under its other conductions. There is no prospect of early remedy from other sources."

-1/-

Sorient Cadit, a Drowing Attention As drop Exp nic

Illinois! regid rise to the notice of the density in region productive and the prospects for a still further increase where we using the coming we rate or wing attention of famours and plant treaters to a rised differences between wordeties of this crop, according to Dr. J. M. Woodworth, chief in plant preading to the College of Agriculture, University of Illinois.

The record crop of name and a last finallian bushelp in litting is in 1934 was valued at more than eight million dothers and represented 34 our sent of the national production.

Sopteon varieties have seen sound to vary not only in seed color but also in many other characters affecting their connercial production, Dr. Woodworth cold. There differences will become increasingly amont in a the production of the only expands, he pointed out.

"One of the import no import to a modulable valeties differ in an the number of seeds a cod. There are some pode with cully one seed, some with to a seeds, there with there and still others with four. Youthly there are very few one-coliclend four-seeded rods in a given carrity. Varieties also differ in the proportion of the different-sized rods. The Ito San, for instance, is predominably a tale-seeded type,

"In experiments on the burne of presents to the who could with a birth company percentage of one-needed pods. The or three newly introduced varieties from the U. S. Department of Agriculture show a higher proportion of four-so ded pode than my concernal varieties now being grown. The temporal that there were that the particular ground, indeed that the concerns of the rated.

'Contrary to that night is a wotal, the varieties having a ligh projection of four-specied join are not a good tellers of my varieties with anglority of the seeded poin. The four-seeded types actually produce small plants to ring a much so like number of poin than the tabler-growing, high-repielling two-seeded symbotics.

"Furthermore, it is difficult to optime the lour- educate rector of a variety with the good characters of another variety. This is only one of the condications in improving sogreens for a still hope import at the surface users lt surface."



Home-Butchered Pork in Seldon Cut in in it Pon.

Formers in Hillmoid have been butter and a much will will be about morth of their own pork (and by dising releat period but the household entire of nog carease to the belt adventage is still a master to take of them, as a Still and Bull, paper ate chief in me to at the College of April Other, This print of This pick.

"We not furmers atill apoil the best of the point the loin, or content of the carcase down both sides of the book band atto to war the ver. The dealth of the specification with the center of the specification with the transfer of the specification.

"The coress should then be allowed to condent the smaller for at head 14 hours before it is out. The large the done in a cost place where the set of it has freeze. The head is first and off open where the nell joins the neck. The poul as out drom the allower thene, flattened but opening pounded with the first like of a cost termor with a board out then opened we with the knife for becomes for be a local.

"The holf covers in them hold win upon on trake and the feet of addigust above the lines and the hook. The coulder to tot off ith a square not office the third and fourth table. The near hour office also so them to ken out. The quer part of the shoulder, to the 'Forter' has not off two flaters book where the coulder slade shows on the near edge of the recolumn.

"The Tolern place, in later the first on top, and be out off and most for I ad or cured for bein park. If it is so be carrie, note of the lean anough by them off with it. The Boston has be cooked from I am not at or chops, it may be missed or it say be boned and asked for an aside. The lower win, or thicking, have be bone in a for sausage or tured. The patient shill be neglected a fitteet divince, and the mission will be better of it to separate into be too, of any place and whenix.

"The hone is out off cout the economic to the front of the polyic. In the letter, the new being here to consular to the line of the sind leg. The letter then trimed to the there are no legal, thin, regged there is not on it. The mile and frank also are triened off. If the home's very fut to a whin and some of the sit may be removed from it. However, about one-half inch of fat should be left over the sean. Hams are usually our as.

"The leaf fet is then stringed but of the parence for land. The cost including both the lain and the fet last, is an from the bolish to a wine or selftios from the point guet below the both last allere the shoulder and recoved to the oint just below the large muscle where the home are removed.

"The 'fit broin' is removed from the loin but a slowy limite, a till digar seing left over the broin mubble. The fit was a used for large, which is not be reft to the loin of the back bones and ribe embradical in the back bones and ribe embradical in the back bones and ribe embradical in the back bones.

he back bones and ribs smoved and is benefic a cack course. It will be a remarked so that all to the remark are continued as that all to the first and a remarked so that all to the remark are are reported. Enough meat is trivel off the second as the trible and all regular are removed. Enough meat is trivel off the second as the remarked, the rible and the results of the second are trively and the remarked for smarge and land. The remarked for the results of the remarked be used for remarked for the results of the remarked be used.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume 3: [TI

Entropy S. T.

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mrei M Etter Flamm alguine In U. I. Tests

The secret of unancing the slate, and not of butter, a condices which has been in use for classet of whom, has been a rated out in the leboratories of the College of Agriculture, This raity of Illinois at is announced by Dr. H. A. Ruehe, head of the dairy department. The arms of lessenges be equived in a core direct and none effective method than I a here toffers seen occasion has edg.

Peliaved to have "enert probabilities " the world of the production of the billion and the profoundly affect the billion and that prounds of present the probabilities. Flore are keing under to palled the pethod and given it to the dairy industry for whatever benefits it has bring probably and consumers in the way of a higher quality of the confidence of the way of a higher quality of the confidence of the

in the way of a higher quesity of the learning the armount, in Took send.

Working with him in the a law ry of the resolution R. J. Rumsey, a member of the college lainy consistency division. The process involves the distillation of the ordiner, "arabien used in Justen medical College College arous quantities of the volctile flavoring planticles which import the Memirable arous or bouquet to butter are obtained in the distillate.

Their finding is arrected and the lettest in provenent in the law of cultumet, or "starters," in treat, a province which has been employed for many pears to develop flavor and around in butter. The formula beatternal neighbors, from his work in 1934, was the final to investigate butter authorise. Four means later the use of such authors in around "rigaring" became a person the commercial butter-mediag arounds.

Substitute in the investigation with this bed the fact that two other organises beside the organises beside the organises results. It is later it was nowed that these organises abanged the citric acid of will have nostplactly beginned. This is found was converted into the volatile charical so, runts which produce the appear and disvor.

However, attempts to intensify the fisher of futter by the admitted of synthetic compounds of this charmed by the normal of adapteration and therefore an illegal practice.

The nethod developed by Rushe and Rause, not only sket it possible to isolate the flamming probles from starter but glar to increase the content of them in that starter.

When the distillant intrined in the process is edded to cream, the flagor and arous are greatly intensified without increasing the spidity, or situic soid content, of the arcan. Sweet aroun treated in this water produces a butter that add the high aroma and flater of that hade from risewed agency, yet had low aridity. The distillate can be added irrently to the butter to obtain similar wealths.



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find good load Properties for all their sectors as a slighter. Furth marry, and delay be seed atomic formations that tively a sector may be subjected and will beld it until about the didle of Sebram. This and we have be seed a continuous northern Illinois occurries when her a continuous accordance when her accordance accordance accordance.

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. r- botter then getsing in apour local elevators or iron interpolation and by at the or continuous the nountry. Devaitron observes and apply the figurines made with a pictal control of movem in the desimunity, while their free wars quisting registed by the tree to be side piece. quality and may even that the contract makin.

"Lead Compalies and a call to a malebil in 35 a generalism and an enteries will give furners the cheirs of the cold some in a tip of the venerous sections. The continual include Genher, Issuer and I so I solve neutron and centural influences. A functo,

Pers. There may be once but this to a maing to the threat of this boughtings, but the army will abill be one of the solution of important soll brains in the at the heavistance. If its mose we are a review of the action of the contraction of the co reeding parathly mile to provide at an own hiself of all the company, and the archivents.

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Although ame searle are smill on exatitions, a other too grows of the won nor luck have anything to do with our eac in the ware scuring of the 199 william rounds or more of some which Illinois a niero butaler annually, are raine Professor Giester Bull, amanalase almost in that the Cathaman's Apriculative, Iniversity of Illinoa. . Then area decent, however, with the pathog which is word, he said.

The ideal terripe in a fire include out to come be degreed elegan including. Usually recold rock in the becauser is the become a The establish early because the base shoulds race pictaics and bellive or a street Court cuts which by be-

mured are goves, on became squares, if he lotes, Fintons and boreless indeed brokes.

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brine is then youred on, o re being to read to the the ment is would talk covered.

Hadd and shoulders should read to a deprive three days or a little longer for each round they weigh. A Hassima has all be ninear our tin " Tops. Caller outs, such as bonen, giori o ond Fratino, chould be given a malder out by leing macrei after two days has been allowed for an income. The let i decide do mark late and repacks into the semi of the directors of the gain of the control was become with, the same brine being ward on his first on the restning.

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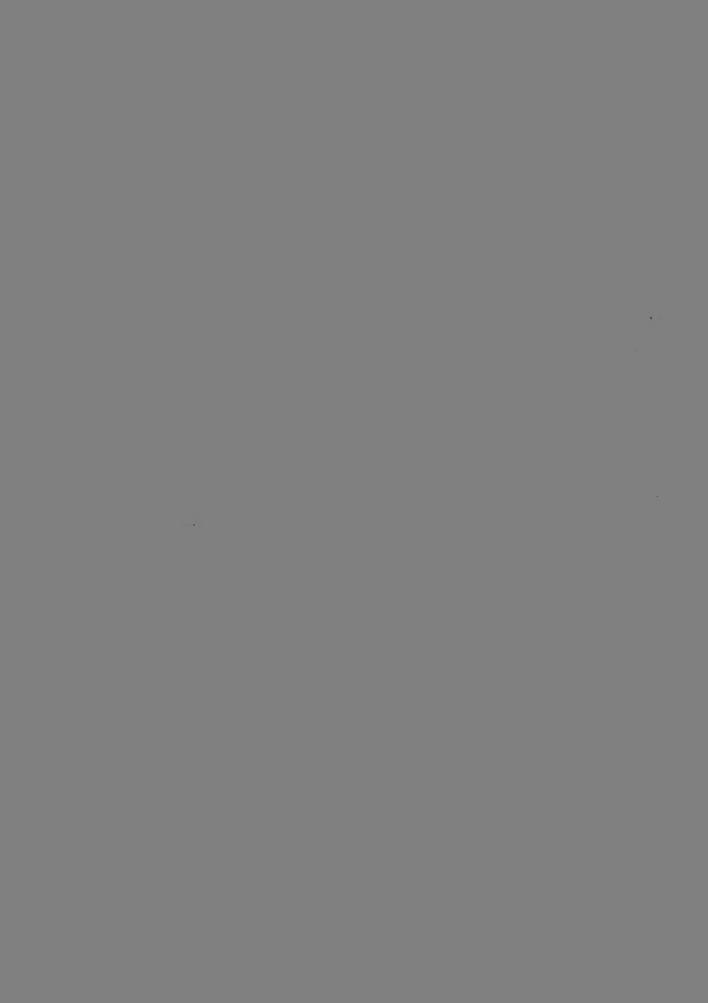
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Paybeans Meeting Emergency In Wintering Law Houses

Many thousands of Illinois barces have hid than first faste of some hay this winter. They are on farms where someons were grown last succer for the first time. These hardes have thrived on appears had just as other thousands of Illinois hardes have not also and his large mean it in the past. A few Illinois farms have used someon hay a lost exclusively for the horses furing the past of years. Results have been uniformly need. The only are saution is to feel only a moderate amount of this rich hay, so that the kinness out all but the correst sters.

Soybean hey had him of an only to relate in more a this winter. In some cases the horses have held bright on this hap and a very core through the winter in very good condition. This work cornect had in a point he very dangerous horse partner, and in scalled has we at divided we had the min of stalk fields did better where sowhelms his beam above a finite form. It is noticeable, too, that horses which are mitting made in the first or a field which is still left in the first trive out hoster of the country of his country or a high of soybean hay or other terms provided.

One of the of his office flag wisher is the thin condition of very form horses because of the correction of and ised. The above of copy in bay on other legion has from new on through the person will belt these while horses to improve. Also by Morch I it will belt the bordes term will belt they be stabled at right and field a little grain. If they are not supposed to the first the field a little grain. If they are not supposed to the first the field a little grain. If they are not supposed that the first the fir

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Spanning of minture doe been An Sauling wit Grow as

Now is the time for those who have an enterest in so the inviting WCZ to establish a plant tion. Instable even to done in horizonburned harrow has where been such a number of wither have been at the relative available. For a number of years shall investigate have been at your time density we been at your times are now becoming available. Ence translive hardy and vigorous and products a varieties beginned and plants is quality fruit and advant to warre allow numbers and plants is quality fruit and advant to warre allow numbers and product and plants is quite most cultural care, and yield both the source and product.

Some of the new varieties of produce include: Alfred blacebear: Recoverent; Former concelerry; Frederic (early black), Portland (corply whate), Once (diseases red), and Therian (late blace) process Third, Addres, Active, Active, and Telephon 1 and respection; Logal end Quilles blacebrases; Potomic grapule results by a process, parallel results and England (file) bearing; stroyboard as

Supply of these varieties are matter in incrime on present because the supply of runers store is low. However, and that be out installed and per producted at how for an entoholy planting. It is allowed to start with a first increasing and the series of a sell and a distributions of a sell to be a constructions. The arrival and the series of a sell and a sell are a sell are a sell and a sell are a sell and a sell are a sell are a sell are a sell and a sell are a sell are a sell and a sell are a sell ar



tring House with Nor Will Indian Berry Rich

It is professed to a second of the contract second for a professed to a second of the contract second of the contract of the c dang reus and rescale to a mere b.

When the presenter him of the rest is for our . How the glass, bride, nails on a bette on maintain ment, a research Record of the attraction, and a superior with a solution of the superior to the superior rest in the rest of the superior rest in the rest of the superior rest in the only a . 11 r tion of it.

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NEW AGE TIDG

COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

lune MVIII

Numbers 8, 9, 10 and 11

Hybri . Le We Liverers in Production of Coun.

New ressibilities for entring higher quality corn at cheaper costs through the use of hybrids are reported by the experient station of the folless or again thurs, University of Illinois. During the past

ent station of the college of semi-viture, injury of Illinois. During the past live years the state's come and a semi-viture granual value of approximately in illient dellars. Results who is a possible in the bullbetin open the way to the widering of the marsin of a torotic on the crop.

"Illinois or whom he follows who were a change of the tests are what time. The outland of the rests are to bull time. The outland of the results of the college. J. R. Holbert, semior grant it. The contract of a college. J. R. Holbert, semior the large of the first or an interpretable of the large of the breeding that the college of the college of the tests are the large of the college of the tests are also the college. J. R. Holbert, semior the large of the large of the large of the college of the tests are also the college. It is a second that the college of the large of the college of the college of the large of the

elana to tot it is reach labries in the forter. What was considered more important For he institute in the control of history of two improvement efforts, the particle of the rest of the best commercial hybrids.

lifferent to the orthography into the refitableness of the erop. The four "yardsticks" ere: It ledging recist no., to neral quality of the brain. (3) total yield and 4) sound grain. The every term of these dar points was taken as the "performone raing of the variety or to m.

Of the 177 different into the count and which in the 13 field tests in 12

different parts of the state, 45 war- open-pullinated varieties and 132 were hybrids. On the ten fields where corrections were possible, the five best experi-

ental hybride had a "regionness palling" of 36.5, the five best commercial hybrids

6 nd riv rice best upen-nolling of variaties a rating of (1.7). The variety yield or soull comply from the experimental hybrids was 46.3 using an larger of the merital dybrids 9 bushels and from the open-pollinated origins. It is not the daybrids stood up outstandingly well against the est, drouth and chanch cans of the Barsenson.

The search for corn of better quality-corn better suited to the uses to hi: it is to commercial purposesy is extented to 1-5d eventually to a more intensive study of the chemical conisition both of rain and stover, the authors of the bulletin predict. The tests Firthe in the new publication are a part of the coordinated corn improvement proren being conducted acceptratively by the College of Agriculture, University of llings, the J. J. Deper ment of agriculture and the Illinois State Natural History



vol. HVIII--Ho. , , l , ind l'.

Octo Imag Near Med to In Meliar Committees

About the quickest we, for Illinois foreme to recommend to the orestores losses of the post pear will be to stort out this spring with increase and everties varieties, in the original Green of Green d. Dunger. Speciate chief in any encounting on the Pollage of Assimulture, University of Illinois. The 1974 Illinois compact of 33, sly, 600 bushels was the smallest pince 1974 and was to had at only \$10, 40, 400 and compared to a high of \$100, 50, 500 in a year like 1971.

Good quality accedents will be somewhat this saving that whenever calditions a seed is bought it will be, the consent to the or outer to consent a proved market, adorted to his locality. Fungan spirital and

"Further ore, with seed or enough conversely ving to beginning supply, there will be a tendency to sew out. Thank, is using the same outlay or each go derether. This will be hoperated in the second the chanch that therefore. The pester remark worse on thin crops then they see on thin case. The Anger of thin seeling by be avoided to a proof of tent by more than the week tell case well only a gard on fertile soil which will down then to ling to the plants. Seed lose on be proof by sowing with a drill. The labeler of one year black high a faill congruent to these bushels sown broadcast.

"The first viriation for the different perturbe of the of team to be, pingled out in tests which the other is seened ting of I I be in numbers Illumia, at Urbana in central Illinois and at Albe bro is south estima Illinois.

"In northern Illinois Io. o. Polichio and Gigh recreits ding sprietion Columbia is an early, stiff a transport, spitchly for growing on a feed order. Tower and Graher are white outs stateble of nor are feed or a retrieve.

"Leading portion of the name of the factor of the control of the c

"Variation of the tolong the shandow rield on Emercia, Columbia, Front line, Burt (Nebraska (4)) and Illinois the . Frunch is a red set which we devolute a for dry-land conditions in Colorede. While if it is a good pickling variety, if here were strew and in that reason may not be a better choice than the Columbia. Francism is also a red cat. It is a termitimis than Columbia and Images."

-10-

Fewer Liveatons 15 . Theel Tvils Of Gw r-Scaturics

With almost a forming to be vested on their from the experience will be a good season for farmers to be about two of the evidence for their pastures, says R. F. Smarp, responded outer in her finished the Collect of Consequentials.

In the rest corn belt for an love been gillocione that an exercise posture, he said. Even distinctly a minrocity the life of the court of a second horse for each 1 acres, while the mass entire that we come also we are accessed carry only one cower herse for each two corns, he means also.

"At this rate of steering, few for each will a visual to next their needs. The solution as to set a local of a constant of the energe many posture. Here again, here are, every single of the first and a constant of the cons



Prid Discours of the True on a become decem-

Formers was loss to cach in an any 10% increase in the price of sorn are getting as dy now to protect their account about threathers beary for getting to diseases, says Penjama Pachter, conscirts chief in any outhology at the Callege of Agriculture. University of Policia. See a norm not only will be source that are but also will be more a rule to interest with the more diseases to require.

Agriculture. University of Illicoid. We communicately well be according uping but also will be normally in the forest transfer to the finish of with the model diseases the resorted During the just transfer to annual velves from the second one, assumed from a high of \$50,000, and 177 to a root of \$50,000 in 170. This year corn diseases will slay a normal material transfer before in retermining the fate of the error. In Toponian will.

"Seed infections known to include end Justium gare both unusually overabout in the state less senson. This force frage curve in the end permal distribute tion, there are comparative subservers which show no signs of infection until a germination test is usual

Dertoinly who seed on the the first this spring, it will be core as sortant than over to ice on the cooled principle each on to rupe our there each no discolored meritic. The include providing the thin temperature of the flaces of the flaces.

"The last record of the mile of the call the self-orm of mely melt a generalization test is over, as the control of these which show poor vigor or discuss infection on the align, to be made and the self-with show the self-with show the self-with show the capable of the show permination test and do not wish to meet the appeals of horizontal self-branchit by carrying out the other two columns, that is willing and self-branched. These may be done at home.

"Corn seed infortions is no decomps in early-stant-lim was gerdinetion is slow, to car is long-season to literative mlanted in the tirst half of May in most of the order limited in owner to take the best griefly and the best gradity of grain. If for some ceason planting that be delayed until "eter, then read treatment may or may not grave of values, beganning usen the season."

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Meglected Brown Vites Will Rend Conful Engline

The grove is believed to be the livet from in mistory to the least obtained, but nowedays perfect and in more manage too order out down the restituants of the erep in a state like Illinois, coronding to Dr. A. . Indep. (1) in the same fruit culture at the Tallegs of Applications, Theoremsty of Illinois. The last the time of the year to start rectoring this fruit to its assutful. I can be a 18.

Hany long mechanted or in report, maked error vines will be and activated factorily to heavy pruning and may be made are Pitable produceds if the most substitute that he term for a line to the first of the most one. The college mut.

"Grape steds have been I am with remains in Egyptian to be at the force years old. Permaps the long period over which the Fruit has been additivated and developed occurs for the fact it will remain about training. Furthermore, the grape is so highly developed that it will and the growth and bear only a small over or over pelicy it magneted.

Minry neglected lines in the represented even though them in though masses of old cames, poorly of emiliate in the control of the control of

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVIII

THE HERE MERTING TO DE ADMINISTRA

Ricing last prices of the first property of the first property deposits be but graid I but the ollege of Apriculture, Triv reits of I lineite.

Inlike west ather evil or or or metings, was one of I reature the sow nd litter there of the heg to be a limited of the finished we must we oblig factor whet wing, according to Dr. W. C. Torrell this factor has been happenday.

Tulice was by the cost of groducing or not by the list of the weared then there is a fifter they are

of groducing on the split to is the sign of weared them these is after they and seaned. In their words forces one to be the entert with it - after they get them. last the wearing stripe than the me beared that time.

incoming the course fring n_i or the m -minimum of r represents one thind of the total control r and r in , the detailed which the former allows in the really stage have a layed at be a condic final returns.

At the time of the string of the string of the control of time of some and inditers will be available from five of the string of entrancy to interest the control of the co astures by me me is the model of the fine arriving pendicall be this to Antonio & type of airrow to the also will be on display a

Following home the first poor is not refreshed been professed. He wask, wad of the unital hash or leading of the results of experients on feeding sows laring gest tion, and Ir. I must have a dain results of excess or to in feeding sows and litters.

The future of the way chief in livestock westing.

sers Ind I to Tursatering DA are To Tonato Co-

In the the touch his book the seament walker of true and sounder on in Ill cas, times a self-inserts offer into the anymous we heavier told from we before in the error one one coll to Illered of same brought out in a lew calcular. Tours Dis see and Ire t Mosto: I'm tiffication and Comprol."

Dis se-free seed, clean soil, soil sterilization and note testion are

quertant forture in horning liborers out of the rolet, and are dispussed as general mirol vengures.

Twelve of the most serious diseases are dealt with in the section on diseas a prepared by H. J. Hadow, of the department of hortical ture.

Control of oin different incent is explained by " # Simopsi . . field intomologist for the Illinois State Nathrob History Survey.



7.

Menuser A chine In Big Factor In Poultry Ditlect

Future returns for a Illinois poultry flocks will have to be digured on the prospect that there will be a big increase in the audion of change hatched in the United States this spring in couple I with the number latched a pear ago. This is shown in reports which the follows of Apriculture, University — Illinois has received from the U.S. Depretaent as a received

The prospect of the confidence by toldings is based to the family report from the big commercial hot weries of the country. This I nown, report is said to be a good guide no to what the hot hery and woultry industries the flaming to do.

Thirty-three per cent norm, or about a third care, blue chicks were hatched in January this pear by 197 his occurried hasomeries than a council had good, according to the report. An absolute according to the report. An absolute according to the report of least some of the inercard book and are the result of the fact that under the IRA and, it hardes are appropriate above above to piece more of their ories in all more.

Increased hatchings is the result of sower discours, conding to the authorities. First there was the discoursed of higher each rates this arring than february. Second, forwers now had the product of higher each rates this arring than they had last pear. In the third was here he we had not both a going and old chickens as a result of last our minders than them had been as a result of last our minders than the not later as a result of last our minders the one of the lowest diggare since the U.S. Department of Agriculture started kestion records by pears again. I meet a verticated out to rebuild their flocks in the note and and and are largered by some ingular narral by next hall. That will be the tips that corply-hatched chicks will begin to buy.

-

Fewer Coup and Pour Fastures Help Hold Lilk Prices

An actin ted door of a to 4 per mont in the multir of will ocar on for a coursed with the poor condition of may Illinois assures this orring my shorten the annual spring drop in butternatorized.

However, this area is called in butterint occase is ally one of the spring formies of the areas produced that a restrictional flavors is the facts, a decrease in the quality of cases one are second remove or objectional flavors in the will because of sertain weeds which the coverst, according to Pr. H. A. Fuch, for led the doing downstent of the Tailege of April Stare, University of Illinois.

Peoples the damage to cotter in 1954, the return on a ring postures will

Tespite the drung to lister it 154, the return of thing asstures will risk in increased flow of listernity probable decrease in butterist cricab, he avaluated.

The quality of ore, can be desintained in the spring to a lenge extent but were a reful bundling, Dr. Robe believes. He auchosizes cooling the orean property to temperature of all degrees debrenheit and carketing at least three times a week. By theserving these and other in cautions, dairymen will be able to a mant quality area which will carrynd good prices.

Wild enions, abundant in lany Illinois pastures in the spring, import on bactional flavor as areas, causing it to be graded down. The infested area should be enced off or, in the case of had infestation, the pasture should be abandoned until ater in the spring when the enions have died.

Track tests usually decreased in the spring owing to growth of most were and resharing of edwar. However, the increased volume of mills will couplly done than expense to the decreased west, Dr. Ruehe says.



At the Min Doe Ming Winter Cleans Of Colling L. Fla.

Thether or not the saling other little to its entable of accent a sallien follows from the Logidical places; langual langual apply on how there while provers wind me the winter element of this pest. This is the opinion of two tiffer not authoration, J. 7. Mondler, field entablegiet to the Illinois State distributions Survey, and V. W. Helley, herticulture? extension specialist of the College of Agriculture, University of Illinois.

To serious was the sect in $1+\frac{n}{n}$ that a section to consider that the apples produced in the state were independent with calling noth words. The every consult value of the state's as let we have been about a million delibers, and one of the most

costly limits to this value has been the codding acth.

A thorough wint molecumy in one of the local telling was of combatting the yest, the authorities counted out. At the recent five the instate on in the overwintering cocon stage. End out of softs exercing for a sinter quarters and producing TO eggs wight yield 1, TO care so the second broad and TO, folly the third broad. This would be enough to ent of 3 to be thelp of collect. If the office upon the past is delayed until the only of the caused local, who desiruation of a sein of sothers theteste means or weather only one place in these states are nearly reaching only one place in the case of collections.

Clearny work should of rt in the seeing them, east a light the grover refers fall and winter variety a. It is in secretal the satisfication and the secretal the saturation of a large transfer and like. On grover was series a him shed with brown courten cotton or mental the second of \$10,000 action into his ordered at \$100.

rost of aml, the year.

If servenias is increasing by, the rest best thing is to place all ordered order and cld well best the unit open and in a closed most which is weak-tight. Profess and besence on be dipped in a real of an induling water until all a real are processed.

In the ordhord itself the area of soluble beach and during the weather area restory to putting on the midling of beach pring the Fallowin are are. The reigh best which

In the creberal it we fith the establishment and drains the wanter crep rates, to putting on the meding of brain wring the Followin out on. The rough bark which is scraped off should be burned. Proxing out our provide, which is not ends and reretially rotted loots desirous the colling soil in one of its fiverity hiding gives. Furning the proxing is important, irraing so on to open up the centers of the track will make it reviews to at the information of the track.

From 1 to 1 correlation the words in a craim of an electron in or on various objects on the ground under the trees. Consequently the electron, is not so well to until every piece of all bashet arms, fortillizer such and all other tresh is burned.

<u>سار ایس</u>

Chick Orang De Destrip But It Day Prove Expensive

"Sering! budge chicks, the Intest innovation in modern coeffing raising, is so tanger a fad are syntery, but it was be of limited value to the general run of large short awners, according to H. M. Ala, possibly extension so cardiast of the falles of Agriculture, University of Illinois. Interest in the question is not the season of its height, he pointed out.

Puping sered chiese so as to get only called and no concrete our be austified in certain instances, Ala said. On the other hand the flow ourser should weight the increased initial court of the chiefs, the he vier losses from sociality as a result of the higher occit of the chiefs and the loss of increasing the relations are considered.

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Timely Notes for Farm Advisers and others from the Agricultural College; Experiment Station, and Extension Service.

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and the first and the first of the fight of the expected to have 1,000 for the engine expected for the engine spring avents and the India Value of the engine avents and a spring avents are to India Value of the engine of the e "First. A. R. 1 ys, single refitting as a relian beauti of dimectors and professor of ninetrial in tion at the university.

Electrical of the inversity.

If rain to now decide in the file of vocational education, the convention, or the first tile, will sting the file of Militatis Association of Vocational Agriculture to the file of the file of



Posture Holding Fat. Of Illinois Dring Returns

For things will have an such bearing on the returns from Itlinois! 1,178,000 dairy constitute season to the solution of the partner problem resulting from list summer's hot, day nother, args Frof. C. S. Rhade, of the dairy isoartment, Callege of Agriculture, There exits if Illinois.

There are not least three mixtures that are solitable for replanting parament or rotation mentures, he said. Mixture Mo. 1 contains 4 pounds of bluegrous, 4 pounds of orchard or broke or as, 5 pounds of thatby, 1 pounds of redtop in 2 pounds with the exception that no redtop is used, the timother is reduced to 2 pounds and 5 pounds of 1 aspeciese are included.

A third fixture contains I pounds of rid clover, I pounds of sweet clover, 2 pounds of alaike and 4 pounds of timethy. As out a maked in from mixture are sufficient to seed one were of land. If the cold is word, we set also reshould not be used in any of the above mixtures.

These mixtures may be assend corby in the opining along with two buch look outs to the acre. The outs server as a replace crue and also furnishes some of the ture. The ground should be discussed in the formula fitter the corresponded roller. The ground seed is sown after the ground as been fitted distinct operation should be reported after seeding has been only to be a feed of the contact of the fitter seeding has been accessed to the fitter seeding has been accessed to the fitter seeding has been accessed. The bush leads of the contact of the fitter seeding has been accessed to the fitter seeding has been accessed.

Outsiles the good only a resolution to the loom and one-half bushels at Conditional field year make agont servers persone of the learly outs are gone.

Another good emergence protions makture in 2 but his of outstain of eight nounce of sweet clover or elfelia and alogue mixture hall ding red and elsely also a few posture during the hot, dry ceasin, is pounds of end a grans and ig but help after two we usually outselvent. This mixture should not be sown until efter cornect atia into and may confer alout a in the middle of the sum of.

--1/-

Slow In Exports Space Mission Of Fill meing Output

Stage which Illinois formers up a limit to light their croduction spots a more sound than ever in view of the further slure in items any ato from the United States. The most recent available lighters show, for instance, that in Jones of the United smallest volume of the products in more than 20 years was shipped out of the United States, according to a remort just received by the College of Arrivalture, University of Illinois from the U.S. Busens of Agriculture I Economics. The January, 1985, intensity for form exports who for compared with 60 in December and with 93 in January of mago.

All products except fruits were emported in less than pre-use values in January. The index regure, as compared with let for pre-war, were: grains and products 17, animal products 33, dairy products and eggs 19, fruit 189, wheat and flour 14, tabacco 97, home and become 18 and eard 45.

Exports of wheat and flour, including flour milled from Consdian wheat, were 1,310,000 bushels in January, on, of the smallest monthly exports on record. Pated xports of wheat and flour from July 1 to January 31 same 14,650,000 bushels compact ith 18,600,000 bushels during the corresponding period of 1956-54.



volume XVIII--No. 18

The Extension Messenger

Bett r De Ar S en Far Production Cf St. . Expita

Hadic for and neglected for Signor, or norm, swill ruit erosing is too gwing its lar, one maing to Dr. A. S. Coll, which is a limit colline to the poller of Armondium, This roit, of Indiana, Theorem and the for the make have notices to make every the set black of lant to m, he wild.

On this chick is attract into our in a charact growing of head red one new day for such property the red on the head toward distant in a himology in a roduction, Dr. Colb and an a. Then to, both but and distant to sket for a clity fruit are expanding modify. Haver's from inverteen a distance are being everyone through resulted. From the effect in his torp is a there is an each a more roof aight class well a role verieties evail ble to there are now.

Exception lip hands, vigorous and profactive varieties now even block include: alfred block.rep; Red lake our st; Fooman could barrep; Fredonia (early object, Fortellend (carly objec), Cloo (rise error of land 3h rid of (rise block) and o; Chi f, Inthos of Newburgh and Logan and Quill of the orange of Freekmore, Dornett, Frim a contribution of Euckholm.

Preckwore, Dorgett, Frim them. Backwill atmostermier.

Sevend of the two lities are soft in order tempore of your angles of my some took. However, for a labt to whom selections are took to both.

tack. However, if a right to promote all rich the propagation of bond,

But a miltowill health and if the right of an electric action and claim temperature in the locality. It is now while the trut with the colling action of a suitable to the neighbor arms in principle.

The flute regard the feet of terminal rule into state opening fill the extension theory vigor and high-vielding a little of the most is to be sold in the rule; it must be jicked and and dyraperly and process in the national and appear to decide and all the trace. It about the cover modify and a reflectly to make the

Small from the controlled a commettion with emisters, a consetucing sitement over a com-

Francis War On Rits. Dhall Mr. . 'Pas' Engly"

Asta note a public enemy No. 1 on the form of the accesson of the groun, for they not only kill them which if polynomials but less introduced and other proceeding to G. C. Oderkorn, of the M. S. Biologic 1 Survey. He is each noting on codent control on this at the with the Stote Motor half compassion of the Cells of Griculture, University of Talinois.

Food rid red spaill is the bist noise of refighting reto, whose it is a dig to then but comparatively hardless to iomistal minutes and has no. The equild of social mixed with some that such as connect colors, hardless on a minture of moistened rolled of the end corn. One part of rolled of the end corn. One part of rolled of the suit by seight is the correct proportion. The different buits should be put out in temporaful quantities on the tas retorms and anjoy their preference.

Even though redequill is comparatively available to domestic animals, since should be taken to prove a chickens, cuts or dogs from esting large paratities of the poisoned boit.

Colding openide fooligint is enother not extermine tor which may be used successfully, especially in turnows, under concrete floors and other plocathers are as as to confined. It should be explied with a foot poor better a legisterially for the purpose. The opening should avoid breathing the point us furns.

Other steps which will help rid the pracise. If note include terming of rubtish and piling lumber and bases so that there is a score undernath. I apportive community is to appoin during which poison is distributed all were the community of the same time are also effective.

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Timely Notes for Farm Advisors and others from the Agricultural College. Experiment Station, and Extension Service

Volume XVIII

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Farmers May Lose Selling Their Stock To Speculators

Rising livestock prices have sent a tworm of special time buyers into the country, it is reported by E. T. Robbins, livestock extension a citalist of the College of Agriculture, iniversity of Illinois. Farmers run the risk of losing much of the benefits of the price boom if they sell to these buyers instead of consigning their stock themselves to the central markets, he said.

"Formers have withing to fear from honest, legitimate buyers, but in times like these it is more important them ever that producers be sure of their ground before making a deal on their stock. Only by visiting a market frequently and noting the quality of cattle and the kind of prices they bring can any farmer realize the shanger which have taken place. Many grades of cattle are twice as high as they were a year ago.

"Speculative buyers now swarming the country may prote a price which looks attractive to the farmer but which may still keep him out of an additional return that he might get by selling some other way. Furners have even been called out of bed in the eagerness of bayers to offer them practically as much for their stock as it would bring on that day's market. The activate also has extended to the buying of hogs, which have advanced considerably since the first of the pear."

Although the market does not lawys operate to make this possible, the farmer, shipping his own stock to the central market, stands the come chance of making a profit as does the speculative tayer, it was pointed out.

"In the long on farmers probably get the most money for their stock when they consign it to the central markets or have their local cooperative marketing associations do it for them. At these central markets the manda sell strictly upon their merits at prices set by competitive bidding. It is not necessary for the farmer to be fully informed upon the last day's values in order to sell his stock of high as it can be sold. The commission men take or re of that."

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New Standards In Apple Cooling Set By 2 1. Tests

New condards for the refrigeration of apple chipments have been not up as a result of further experiments by the College of Agriculture. University of Illinois to reduce present heavy losses in fruit correcting. Reports of the latest atudies are given in a new bulletin just issued by the experiment station of the college under the title, "Factors Influencing the lefrigaration of Packages of Apples," by J. W. Lloyd, chief in fruit and vegetable marketing, and S. W. Decker, associate.

Findings made in the study have an important bearing on the marketing of the Illinois commercial crop, which emounts to nearly 60 per cent of the state's cotal estimated crop of 5,000,000 bushels.

The experiments were carried out with special apparetus which the investigators constructed to product conditions similar to those found in refrigarator cars.

Use of the lined tub bushel, bushel hamper or ventil: ted corrugated bushel box as an apple container allowed fairly rapid cooling of the fruit to the desired 45 degrees Fahrenheit. Unventil ted corrugated boxes or the lined western apple box retarded cooling, as did also the use of oil wraps around the individual apples.

In addition to this information regarding the relationship of the package to rate of cooling, the experiments showed that side of the fruit had little to do with the rate of cooling but that the velocity of the hir rus on import at a ctur when it got above 10% feet a minute. Pre-cooling was thorn to have a decided influence in preventing spoilage.



Beef Jonstuners Can Blane Woes On Ravages Of Drouth

Increasing complaints about the price of beefstock going a while the outlity is going down are just enother as I to of the 12 is arouth and neither the farker, the pack r, nor the butcher and e bland, according to the College of Amaculture, sieversity of Illinois.

Fortunately, there is still planty of mitritious beef to the had, provided consumers know what to look for, it is a point i out by Frof. Sheeter Bull, resociate chief in marts. The how ownforch will get har money's worth if the will get a little wided shill into her selections of beat, he will,

"Price of teef have been somed up to the drouth become short feed and water cupling compelled functs to promifice live sock to quickly as possible with the result that today there are fewer outtle to go to with the At the same time the general quality of beef has been temporarily lowered as an aftermath of the drouth because underfed outtle yield so to that in less fact and tender.

"Concurrent in some normeto row be able to get beef that is graded for quality and if no, there grader will us nich then in rading a none of thefact my colection of meat. For all consumers, however, there as a number of tipe which will enable them to do their own grading when they go to the butch-riskey or meat mark t.

"In looking for 'price' weef, consumer or likely to find that it is very scarce, even then for interprese plentiful. The color of the lean in such beed ranged from bright mink to bright cherry red with timy white lines of fat called workling running through it like vines. The meet is covered vito a thick, even log rest firm, white fat. Out surfaces are smooth and firm.

"'Choice' beef has about the same characteristics as 'grace,' but is not so fat. 'Good' is considerably above the over ge and good enough for bot people in the best of time. "Medium! and 'common' are not so well flashed, the lean bear dark red in color atomosa reling and the fat is then and pellow. Such ment as ally comes from older a tile of dairy or same breeding. However, it is quite mutritions and if properly cooked in also pulatable.

"Color and marbling are the essicat items for the mateur grader to recember. The least should be tright charm and with at least some marbling running through it. The fit chould be white or crease white."

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Sound Program to Nov Heeded In "Boots" Of Soull Fruits

With small fruits staging a considerk in Illinois, a sund program of warity election, planting and culture is needed to be dealth it prointments which would come from a to has into from a to has into the anall cruit field, according to a new sircular last issued by the College of Agriculture, University of Illinoise. Entitled, "Bramble Fruits," the new circular could insome and improved methods of proxing more berries, also before a and devotories in Illinoise.

Instant proctices and dealt with in the etion by Dr. A. S. Cotto, chief in small fruit culture; brunche diseases and their control in the conduction by Dr. H. W. And Lott, jothelogical in the people grainisisten, and chose and their control in a third election by W. F. Flint, chi flentendomia that the college and a textitud latural History Survey.

The value of samitary measures in the main re of branches is atreas I in the circular, and a recommended approx concerns in malured.

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Good Gils Would Add 140,000 Yours to Tractor Life

As much to 140,000 years and possibly 210,000 years of service might be added to the 70,000 form tractors in Illinois through proper crank case ciling and dointon unce, says R. I. Shawl, of the department of agricultural engineering. College of Agriculture, University of Illinois. Seven years is the average life of a tractor, while machines given proper care are still in service after nine or the years, be said.

Importance of using proper crank case til in prolonging tractor life has been brought out in studies which the college has been connecting since 1928. A cardinal principle established in these tests is to rick the lightest grade oil of the highest quality that case to rest unitable is creasing all consummts or count case dilution. Such an oil, it was presented as all be to observed, which the largest, on the days repair pills and have a real prolonging the large of the tractor.

Three samples of heaver it have shown accelerators introduce to heat and crank one, dilution. Here were, there sile cave errored too neavy to give proper lubrication except when the mistor, and cylinders were badly sorn. Making receive rejure is representationary than the use of extremely heavy tile when the soler because mean. Showl beling a

Two samples of light oil that we all chricating qualities, but were to a light to provent dilution and exclusive in the writion. A elegably realway grade gave much better results.

Comparing used in the tests of seathers for my They did on Figure promote attended to morking north seathers and help and dilutions form of the cheap file thinned but under excessive heat, while others thicken a be to weatent that they could not reach to coints of friction.

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Seid-Time Soybeans Are Best Bit For Regard Acress

Record claratings of 1,0%2,000 acres of soybeans which are indicated for II incis this year are likely to yield farmers the best harvest of hav or of beans if they are sole with the varieties that ordinarily are thought of as grain cracks as types, according to W. I. Burlison, head of the department of agrances, College of Agriculture, University of Illinois.

Experiments which he and his associates, J. C. Hackleman and C. 4. Van Derer, have conducted for five years show that the grain producing types of saybeans all have superior hay producing qualities. The grain, or seed types averaged 3.41 from if hay to the agree as compared to 3.07 time for the hay varieties.

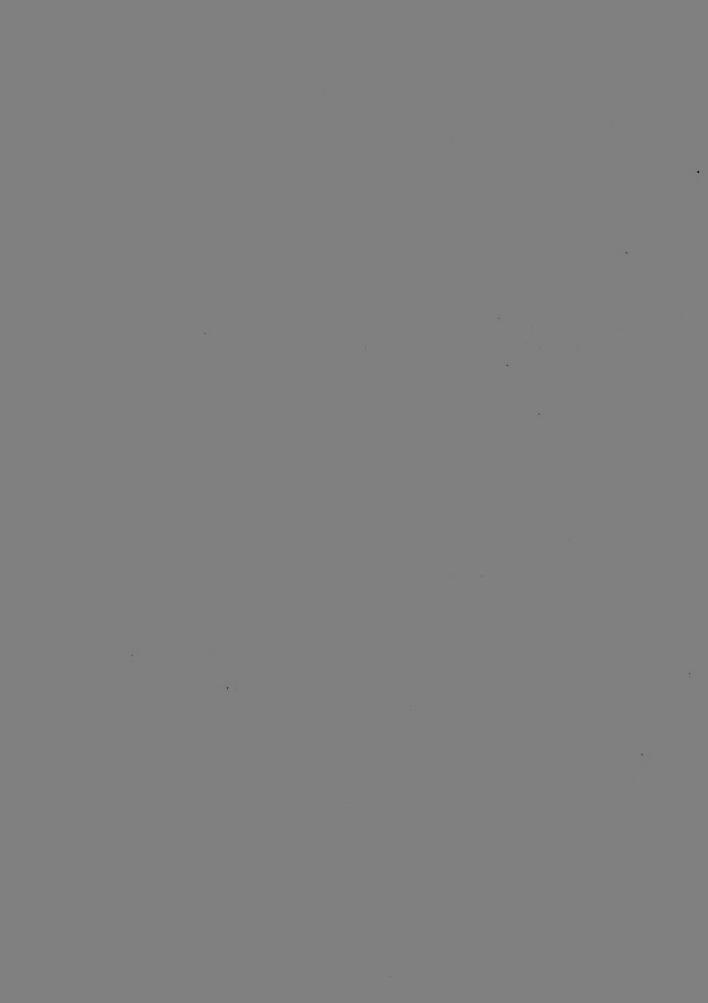
Where several late-maturing hay type soybeans are being compared with seel type varieties, the latter have continued to outyield the hay types for pay as well as for seld.

While the seed types may not produce more forage than the hop types of the sections of Illinois, crops specialists believe the dual purpose qualifies of the seed types may make them worthy of consideration,

The soud types used in the five-year tests were: Dunfield, Website, Website and Illini. The hay types were: Kingma, Peking, Ebeny, Wilson V and Virginia.

Fromers who intend to plant either to beed or hay type varieties this spring should get their seed supplies as soon as possible, Burlison Said. Thout half of the 1934 stybean crop of Illinois was sold by December 1, 1934, Teaving continuistics 5,000,000 bushels in the hands of grovers.

At real 2,000,000 business will be required to plant the intiction of the corresponding this state. Increased seed domando from states where the deputh has referred to disapplies would indicate that stybean deed may be seence buter in the secretical



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Improved Foultr, Louis Will Hels Fortify Profits

Any profits resulting from better waltry and new prices may be more obvious if good sen houses are provided, in the origin of W. A. Poster, rural architect in the College of Agriculture, University of Thineis. This marine, when couring said building projects are being pushed, is a good time to start getting the buildings in shale for the roll and winter season, he half yea.

To assist Illinois formers and provings in building better houses, the college to assembled some of blue-printed than for probing houses and equipment. These plans are supplemented by college sine are he. The siving directions for construction of the struw-loft house, and No. - 3 with instructions on building the Shift rior type. These plans are also included in the blue grints awailable.

All of the plane are based on the reations made by Foster in cooperation with the collection of division. They include information on the construction of house, a maintenance, water departus, laying boxes, and brooding now a fend egginent.

Reduced form incomes during the set few years have obserd many poultrymon to nation making remains on their buildings and equipment. This has added to the distant and for information on repairs and alterations. The popularity of poultry as a means of adding to the income of low and workers and subgistence femilies as a low root of a demand for cheep but autinfactory coultry equipment built, if we saible, from any lumber.

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Volume XVIII

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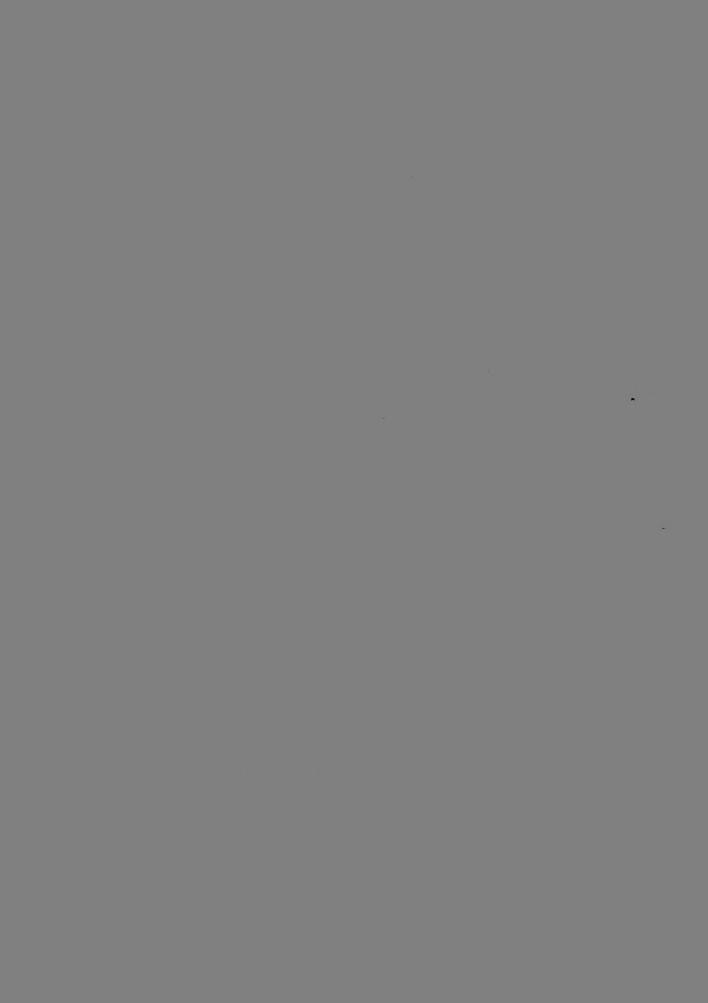
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Further Jelop In Jetting Joy Cord Will Do Dee Finley

Farmers intending to reant anybeans this arrit; will is not to obtain their seed sumplies before the last minute, in the opinion of A. A. Problemon, errors in mation specialist at the College of Agricultume, University at Illinoise. Are stimuted for each increase in the mational paybean acrosses insic was that there may be a seed shortage, he still

Factors pointing toward increased problem for are are: Danger of chinelest infestation; now land available for sephene planting the lighter available of 1965 or - Rog contracts; of favorable as digrice; the mond for lags me lags; increased capacity of processing plants; and increased area for payborns.

In offition, it is expected that it is demonstrated from the Growth areas will be

With cillions of thinch bus coming out of winter a critica, many Illiantic farmers will find soyboung valuable this string because of their bug-proof qualities. Then too, Hackleman explains, last samuer's datase to high and resture his increased the need for lightne buy which may be grown on link token so the corn proceeding.

the need for ligime key which may be grown on lind token with discount production.

The chance or, we says, that apply a sick may be considered to then during the Jenuary and February points, be taken that extremely be night a night and the afford the grown a profit. Additional processing that supply be lit in 1999 and may be planned for this pear. These climic are middle to the error of the demand wrights from soybean drinks, breakfast founds, mecanoni, mostles, incorrections dog as of other new products made from this oray.

Robertá Flanting Peto Fromium On Combour Inscalation

With Illinois formers proposing to limit to and option service this spring, i. T. Allicon, Assistant in soil biology at the follow of Agriculture, University of Illinois, points out that install time the state of bod with hitrogen-fixtage bacteria is one of the two or target mais assentials of superconduction with the crup. Good inequality bought from a reliable firm will be elegated as incommon for supposes which this year, we in every other poor, Allicon said.

Nitroken is necessary for the ortisfactory growth or combouns. The object available course is the free nitrogen in the wir, but it must be dived by the best windefore it can be used by the plants. Acid soils or those on which legames have not been grown for some time are morelly soid of the needed because, and, corsequently, troduce very noor combounce unless inoculated.

The best inocculation method, Allison suge, is that of adding the besture to the conditate provious to all nting. Through this merbod, the bacteris aling to the seed and constrate the roots on soon so the seed germinates. Inside the roots they form nodules which are soon fulled with more siter, an-riving bacteris.

A plentiful supply of nitrogen is executive to high pioles of continues well as to high protein content of the boson. The send value of both the division beans is increased by high protein content.

Another important point stressed by A lists is test plants spelied with plenty of mitroson are bottom equipped to withnested dry weather.

Communical legume insculants may be parent at in two types, the larger sulture or jelly type sold in bottles, and the type having differ a sewer or a it base.



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(a) Avoid freder and rtil, no on a chart () frott y all to because of currings (4) that shows an ability of all the conditions of the free filter and test infector flocks contributed by a compared detector; (f) promotly reconsiling and all reconstructions and account of the description of a month or an of an annihilating and the discrepance of the condition and an account of the discrepance of the condition of

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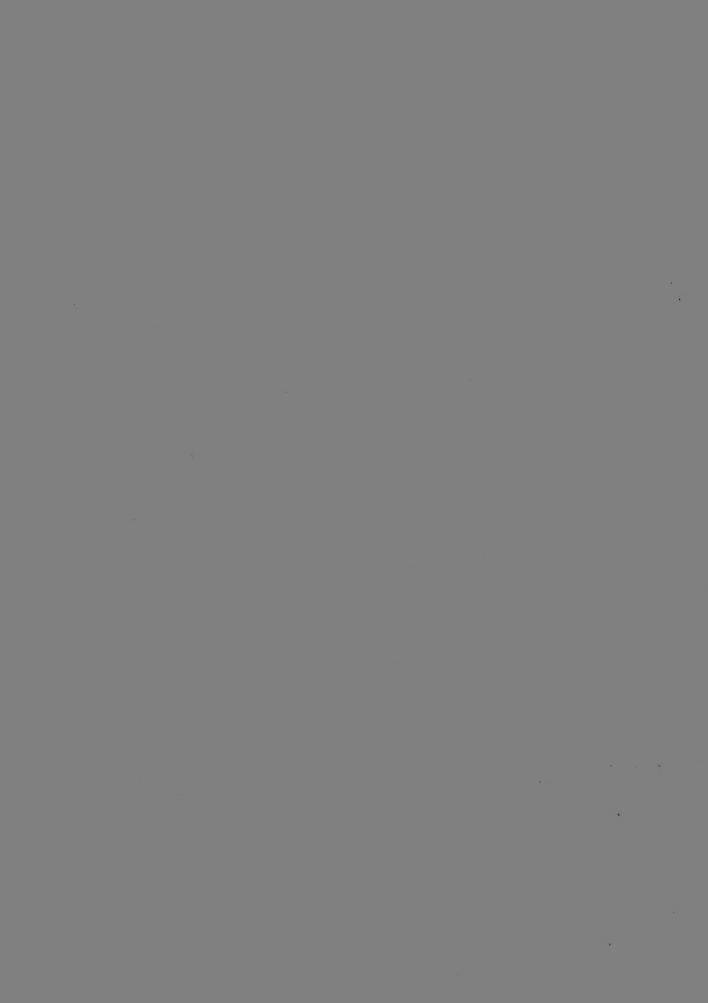
Department of Agriculture. He succeeds Talo A. This who resigned April Tal.

Dr. Black wis born in Prorise on April (1997), the son of Mr. and Mass.

Tadson H. Fleel. He see traducted from the first profit as a Agriculture of Mass.

Diorthy at r is graduation from the Toxy and a limits, Br. Mass. A Agric to mode composite for the Federal Turn Turn Force Force allowers, 5. 2 Tomained at Machington until 1900 when he become associated at the sist is: Brank of Dart r,). It was in 1924, that have a fit is not into a her me beginn Professor of dericultural admonios to the Triversity of Mindson. From 1 1929, Dr. 31 of the dat of Himner deemed of complete atoly. In the he saw of the department of surpose stored economic out to a State Oc Department of week. 第二次接入 190 Washington, L. in . . , line, to sorve the color of the AND Composition lower recoling character live to a continuous sign Frbriary

Printed in furtherwise of the Applicational Extension Act approved by Congress May 8, 1911. H. W. Michaeller,



3 Million Less Acres Needed For Core In Cais Flan

Three million fewer words would be required to produce Illinois' average annual corn erm if all farmers used limestone and dither barnyard manure or green manure in a good rotation, including clover, according to L. B. Miller, associate in soil experiment fields at the College of Agricultur, University of Illanois.

Such a change would cause a direct saving of many millions of dollars cases year in production costs. It also would greatly reduce the annual losses from erosion and leaching and in the end would prolong the tipe of earn bolt sails for Juture generations, he pointed out.

The estimate that the total size of Paineis corn fields could be reduced by three million acres is based on ten-pair average results from L4 soil experiment fields which the excitablian college maintains in different earts of the easte. Ours yields on these fields were improved 15 to 18 bushels as were by the use of limestone and either barryard manuse or are a general to a oraq notation system inclusive elevar.

In contrast to the coresults, mineral fartilizers have improved corn yields only 2.4 bushels on here. This is the average for 4% trials which the college made in farmers' fields under many different soil conditions. There were a few special soil conditions where mineral treatment was profitable, owing to cotach deficiencies, but is the more normal soils the response from mineral fortilizers resulty was not enough to justify the expense and the trouble.

Interest in firtilizing the corn crop to get the most efficient cost the sect profitable yields is reviving this year because of the higher corn prices. Mill repointed out. If money in to be spent for this car has it is best seent for limestone and for so ding soil improving lagrance, be recommended. Germ monds a sail high in organic matter, and this can not be bought in a fortilizer such. It can, however, be produced on the form as barnyond manuse on as any residence and are an earlier.

The average natural yield of Illinois' nine million before of corn has been approximately by bushels an agree with little variation furning the post 46 pears. The benefits of new varieties and better cultural methods have just about balances increasing damage done by plant discusses, insects and abil deplotion.

-14-

Cla Clover May Make Profitable Seed Crup Thic Coring

With a 30-million-pound chartner of red shower need supplies in group at this year, Ithinis formers may be able to any later cash by having any three-water old red or assumeth clover fields which they have, it is pointed out by J. J. Figur, associate sold in error production at the College of Associate sold in error production at the College of Associate.

associate chief in crop production at the College of Agriculture, University of Illinois.

Although it is not generally known, either red or mammath clover that was planted in 1963 is capable of producing hap and now this coming summer if there is still a good stand of the crop, Sieper says. Rea and mammath clover are both perennials, but are usually killed out by the clover root borer during their second year.

This borer destroys meny of the roots and weakens the plants to the set at that that they usually winter kill during the second winter. For some unknown resem, the root borers have not been effective in Illinois recently. Consequently, there are many three-year ald fields of red and Mammeth clover in good condition this agains.

Those fields, under normal conditions, should produce one good buy one and a good seed crop this coming number, Pieper believes.

The national everage production is 10,000,000 pennes annually, with 1004 production down to 30,000,000. This amount plus 1,000,000 sauda carryover is sail 30,000,000 rounds short of the everage annual consumption.



Poisonous Weeds Worse Threat To Stack The Suring

Danger of livestock losses from poisonous plants has been heightened in Illinois this spring by short pastures and the lack of feed with which to finish the winter season, it is reported by Dr. Robert Graham, chief in animal pathology and hygiene at the College of Agriculture, University of Illinois.

Requests for information on the treatment of farm animals poisoned by whorled milkweed and other poisonous plants have already started coming to the college. With winter feed supplies lower than usual, he expects early grazing to result in a greater than usual number of horses and cattle being poisoned this year.

Quite often the former is not aware of the danger until he finds some of his animals dotd, Dr. Graham said. This is especially true where poisoning has resulted from the first growth of cockle burrs. This weed is highly toxic in the early stages of its growth and works rapidly. However, cockle burrs do not appear until later in the spring.

In many cases, the farmer may notice of the approximate as weakness, paralysis, abnormal electiness, rapid loss of weight or a tendency to stumble and fall. As soon as such sym tome are noticed, a graduate veterinarian should be called to administen stimulants and pargatives. With the slower acting coicens, prompt treatment by the veterinarian may often result in a cure.

The best measure is to keep possonous (lints out of reach of the stock, says) Dr. Graham.

Riponed seed pods of the so-called defice bear tree, in well is pods from black locust trees cause considerable paisoning in the spring, according to J. J. Pieper, associate chief in crop and office to the callege. Several records of paisoning from these sources have come in the callege this spring. The best preventative as to keep the stock away from the riponed code, save Pieper.

Leaves of wild chairs trees are also passenous and care should be taken to clean up fallon branches after sterms or heavy wines.

Some of the more common poisonous spring woods of Illuncia are. Patchmon's breeches, larkspur, buttercup and the roots of with hemlock. The roots of the hemlock are often uncovered by gully washing and apparently have an appetizing flower. They are exceedingly toxic and cause death in a comparatively short time.

While ripened peds of honey locust trees are not ordinarily considered poisonous, there are indications of some danger from these pods so it will pay to keep them out of reach of livestock.

c - [V] -

Food Costs Jump Only Half As High As U. S. Payrolls

Food prices, frequently discussed these days, may be going of, but during the past two years factory payrolls in the United States have increased nearly twice at fast as retail food prices, it is pointed out by R. W. Bartlett, of the desartment of agricultural economics, College of Agriculture, University of Illinoi...

The total cash income of factory workers in February, 1935, the most recent month for which figures are available, was \$613,000,000, which was an increase of \$252,000,000 over the amount for February, 1934. This was a net ancrease of 75 per cent. During this same period food prices increased only 34 per cent.

The total cost of living during February of this year was 13 per cent higher than during the same month of 1933. The very small increase in fuel, light and housing costs faring the two-year period accounts for the very moderate increase in living costs.

For the city concumer, fuel and light costs went up about 1.4 per cent. Housing costs increased approximately 2.3 per cent. Thathing costs showed a greater increase with crices climbing 24.4 per cent during the two years.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Illinois farmers and have others are doing tore and the set their own grant planning right in their communities, ecording to D. I. Hindelron, rural sociology extension specialist at the Dulberg of Arraculture, Thire roity is Illinois. Thetings were held in 1, of rural constraint in 104 to resist in it nowing agriculture and howeveking through better out tetra of arograms and englects of on 1 by the entending service of the agricultural college. This poor this idea of prove themaing by rural community units is soing short with new enthusiasa, he reported.

How community units ore being organized to supel and these already established and county wide nectings or froing initiated as a local or correlating the whole of the various units. In all of those optivities the main this is the use of orminin tion to make extension work in a mangered have bing non- frection in the en-

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Volume AVIII

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Timely Notes for Farm Advisers and others from the Applemental College, Experiment Station, and Extension Service

Volume XVIII

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station and Extension Service

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Number 21

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Distriction of Orm Will Hills Theor Flag Beetles

There use heatraction of a design corn fields is two only effective means of retains the plans form form fles to thes, which threaten to be plentiful this spring, corning to J. W. Bigger, I limits Stare Market History Survey entomologist, cooperting with the Collect of Agriculture, University of Illinois. Abundant rainfall and by wood growth before the norm was almost and encouraged the beetles, since they a chair until the corn starts growing.

The flea be the is time black or greenish insect and derives its name from loubit of jumping like a flat when his turb it. Until the corn is up, the insect feeds " cuci. med as purslane, lamb's parver, regweed and smart weed. As soon as the corn If ire, the tootle turns its attention to the corn leaves, eating small round holes

Where the flea tentles are numerous, they chew the corn leaves so seriously

At the lants losse vitality, the vellow and often die.
It ging we de lut of the field bethe and after the corn is planted will do much toward a nuralling the insects, sing they make their homes in the weeds until the arm of our shore the gramma. Vigorous, fast growing come will often outgrow the firstle. I'm a, it is advisable in many passes to delay planting and all the grand as werm.



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Three changes making the) form odvisors to our conversable of the 190 counties of the state in agricultural at main corvir work also have been unnescently by Fref. 7. C. Spitlin, other lasting form due, or.

Miss Smith, the new home wavisor of Greene county, was greated from the mivereity of Illinois in 1957 and has been teaching set of at Illinois. The is do thirty-fifth home advisor in the start. Sen or then have the counties, which accounts for the fact that a total of but counting have this corvier.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVIII

May 17, 145

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Despite unproced and despite and feed of attaged lead your, a new state standard which the anything for the rest of plans who set is for mile and butterfat production by Itlin is iming the order to amount diby Fred. C. F. Brade and J. G. Bash, dury specimies at the fill set of Agriculture, iniversity of Illinois.

The highest average reduction in the figure of dairy kind improvement association work we note in lightby the Fyh ends belonging to those associations, it is shown in to unrual report which Rhade and Real love just relevand on the work of these grows. The everage for each new was F,47, youngs if mick and 324.0 counts of outcorfit.

Dring the same poor to average or dustion for all told in the Trited States slipped to the lowest level in 10 years. The estimated average production of all cows in the state is estimated at about 100 pounds of butterfat.

By commorrison with these marks, she new this recert for the ussociation again is a tribute to the reserve which the member durymen are mobile toward work profitable production recough better is ding, breaking and makes more of their wards, whose and freh pointed but.

More than two-third, in a , of the accomintion and a displace of 300 nounds or more of butt rist for each cow.

association, the higher territor rows a commerce fellotein in the hard of Models of Farm, Modelscart, that produce left tone of malk and Walk a major of betterful toring the year. The Ellward & Floor and, Bakalb, has the mean light steproducing sow; Modelscart, third and fourth; Rosa River Farm, Ryron, fatth; Playond & Moleca, saxth; Modelscart, seventh; F. G. Frier, Altamona, auchth; Goldban & Lango, Population, ainth; and Modelscart, tenth.

The highest credicing new in the grade-cow group also was from Moose's art, She had a reord of 5,187 pounds of milk and 78 pounds of fat. Zimm rada Davry, Washington, had the recent but new in the grade class; Illinois State Ponitantian, Stateville, third; F. S. Pri as, Caledons, fourth; and Al wander Gournesy Farm, Bloominston, fifth.

As to hard everages, Mosseneart Form and the Palanois Farm No. ', Palatical, tied for first place with butterful production avarages of the Repondera cow. This is the fourth consecutive everage of more than 500 pounds for the Palantic hard. But of the top herds were in the class of those having more than 10 cow years. Other dischards in the class included the herds of C. J. Melord, Newton, third; John Ellawarts, Harvard, fourth; and Guhlbock & Lange, fifth.

In the class of heric having from five to the enwayers, the hard of Secar Anderson, Samonauk, was first with an average of Fig. 5 pounds of bustonfat. C. W. Suthrie, Charleston, was record; H. G. Friess, third: J. G. Friess, different ford, fourt; and Keenan Prothers, I dend, fifth.

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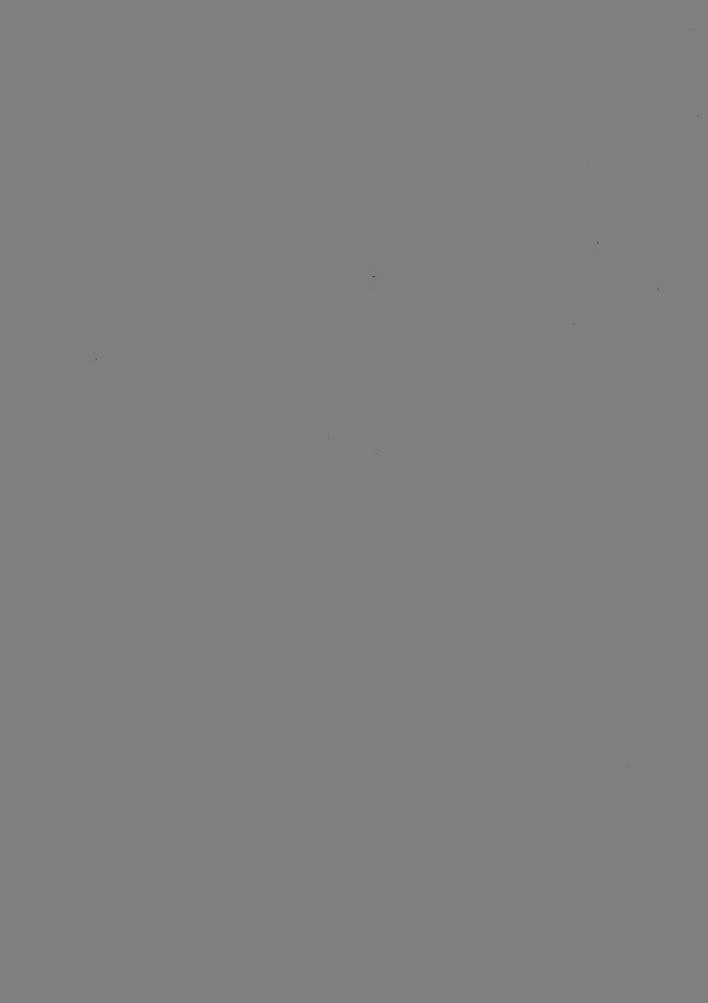
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Volum KVIII

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Image dine by the arouth draw home the fact that laws of one that some at of the wood lot, souper oria. Tivestees decomp to or a independent in yet cars, but the meanwhite a grown or improved the control of the control of a line like. In the case of the live of the control get a better sweep a lose to the around. This course the given has any and an option. in sudition, the ground is secure here by the constant into the order of the addition, the ground is secured. The result is that the 25 to 100 to 100 to 25 to 25 to 100 to 100 to 25 to 100 to

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Timely Notes for Farm Advisers and others from the Agricu tural College, Experiment Station, and Extension Service

Volume XVIII

lighter to the fire from Wellin to the Calebook Follows,

With the most gain in form income and Iffinein, which expect from the last sections the past of the income of fact that the section of the fact that the section of the fact that is a last substitute of Illinois.

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The City of Land Land By untireasy se Daniege,

Spriting, with ring the line of the structure of the additional mapping trees that is now turing an archeror at in the top one of the attractions, disputs, says Dr . A. Tenon, bounded of the Phinnis Contract Autorial History Sunvey, com retting with the follow of agric ltors, This relity of Illinois.

A next complete or vention of extingence came to obtained by spreying susreptible kine of tree with a rice or mixture of the sprey should be applied while
he leaves are one living. If not we there a mine on the sprey most be repeated ab
htervals of the ten inverse or a to prove the begins of a more aid editions.

ven if the first surry is misted, and of the indection can or provented and the raity of mode trees lurgely in the beginning to spray as soon as anthracubse infection in observed. Trees that have suffered developing can ofther, be induced to make onlyrest if they are supplied with mitrogenous fertilizen.

in on the in of the distance of the series of the series. rul: tr : suffer very lite . permuent ance grow the authraces attack.



Inchests Brighton Changes For Sied Open 200 Clover

This may be one of these rare years when insecte will come to the wid of farmers and give there the benefit of a cash seed crop from the first cutting of red clover, according to W. P. Flact, chief entomologist of the Illinois State Natural distory Survey and of the Illinois.

In chaser to mea race inquiries, he is recommending that formers I to the first crop of red clover stand for send if enough heads have blocked to produce a profitable crop of seed. Low ver, if heads are no scarce that only a light seed eropean be expected, farmers may us well follow the usual practice of cutting the first crop for hay and letting the send crop stand for seed, he said.

Shortages of clevings in following the 1 %- drouth and the increasing acreages of legumes throughout the United States have comeined to jut a premium on the production of seed crops, it was pointed out. Success of the clover seed crop, however, depends largely upon the presence of certain insects that colling to the seed leads, Flint said.

This year it dust to happens that there are rather large numbers of elever collinators present. Farmers can expect a good of that is defined the heads that bloom for the first crop. Ordinarily only the record rap of closer is used for such, because by that time there are nearly clarge anough bumble base to incure a good of of seci, although this cood must have be defined by other has one.

The chief throat the difference rope flower this gour is the clover bud weevil. It has destroyed as rong of the clover buds that if he doubtful if enough weads will form in suny fields so make a profitable sold cross in the first cutting.

Any send that the former on but from the first or , andoubtedly will be worth siving, incomuch us there are several and depositroying insect. In there fairly bundant this year and that here likely to cause mure to like insure to second-cross seed, Flint soid.

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Drager of Deally "Stalk" Directo Still 1. Old forn

With sporalic outbrokes of the so-outled cornetall dis age still becausing in Illinois, farours can not efford to take chances faciling either grain or folder of the 1934 crop to their forces, as if Dr. Robert Graham, and fine animal pathology and bygions at the Jollege of Agriculture, University of This is a.

The outbroads which was at its peak surport of the fact that estimated to

The outbreak which was at its pask surror of the bound of a stimuted to cave caused a lose of nearly helf a million dollars among fure to the central sections of the state. Estimated loss during the winter period amounted to accreaisately 7,000 horses.

No definite conclusions have been reached so to whither the grain or the fodder has been the cause of the trouble. The disease was remained experimentally by clading hors a in a 55-pers corn field in Champaign County auring the winter. Confirming observations by veterinarians and stockmen indicated that damages corn, such as that grown during the broath of 1934 may, in some way, be requestable for leaves of horses from the disease.

Cld corn has been f d with sufaty to loge and estile on the same firm, when the horses died.

Since there is a strong indication that the lept corn is of the root of the rouble, outs should be used a horse feed until a new error map in evailable, ecording to Dr. Graham.

Harly treatment of the diseased heree by a local vacarin run will aft a result in a cure. The first symptoms are sluggishness, stage we wait and avid not if eleginess and blindness. When any of these first symptoms appear, the set ris rien should be called. After the across good down and is an attention of the fallows.



Diry B. teris Are Wor t Erend & Cf Mills Problems in

From though it stall not into both each ballstoner could not by a consist to appel to discoul a orbin in the rette, there is a community or the singuing oration my when it can be to got line the market as site of a built of million o T. M. Bronnon, Chirp burn of Spirit title Soll on an Approximation, This will will be all the fill tiken by the about of will begin to be a common title of the gota letter, and yet then a some problem attil Andre that english a like become contact n milz, to mil.

They got tally are willing if comming allower live to saw its offer. They nd consistency. So ring is by all little row lead a congress of a contact, is some he becomes involved in the particular to the two or the state of a circle ring in the congress.

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With we fitte but atmack as a parameter of an all last and a residue to curse, grammas on most of the impact of constitution by the second constitution to the constitution of the ne Callege of Agriculture, Criverosty of Illinoan. The or a M. set disease, they are just hid may meen this emprecall lave a scenarious comment of it your, he said

Pasty fing in "a swin's not the armoi exploite of a number bile, to an e icts many mighner, much magliong, dom the a mingraph and dockers in in an efficie

rainus insest that diem as proves untoethealt dan volume (for solution). Each waring the rotion plants conduct not no service separate at the fact orgin ordwood. If the slower of an ordinal day line separate aill on angled mass of fild and new ministry major will go ld in order beering. After to ated to a been conjusted or a thorough cowing, rising in the intituence, for the come is ald or "barn douth" with a clow or disc. I asin- a color of thate only a few scott cowing. Then the clic longs consider this day a matemach of nearly for a first opert.

After the path lab marmovated and third d, it sould be individud to while from the werds and their went the Cormation of the fixty like z is away ${\it K}$. Fix tated. If fortilizer is needed, it may be worked into the soul mean in you during

ultivation.

Rack now should be a light of wilth of thout of the a polices of work but a ming from each mother elect should be limited to six to the our subargues to the

Ouch vig rous varieties at the Plakemore should be belont a ven leas.

Along with thinning the dants, the expertite a project wall help of our at he did us de lants and disculture insects. Because of this stream rries can execte a grown successfully without the new of sprays. Act have been but the make he rown in the same ground in speciesion subject the sugar that is found in the win a stablingh level.

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Volume XVIII

July 1, 1,55

Burber 17

Drouth Broken But Bugs Still Cost Gra rs Fortune

While Illinois graces are not being related by die ath this pear, gradeners and vegetable grower still relad to love between your and five illien dellars from insects if the senson is as more. This is pointed but in a new circular, "Daving Carden Crops From Insect Ingure," which has past been outlined, by the College of Cagriculture, University of Illinois.

Insecticides are recently in the limited of filling insects, but cultural practices are also at the filmer in requiring to the gr, recording to the circular, which was present as L. M. Chropchire, field entonologist, and C. C. Compton, accounts entonologist, Tillings State Natural sation. Europe, who are cooperating with the college.

Some 54 inserts which trivially attach garaon plants in listed in the cirpular. A description of each insert, its habits, noticed of injury, life history and
and the best means of control is riven. Illustrations are included to help gardeners
recognize the various sinds of equations bugs.

Insects therein each of the sport getable and the common fire grouped separately and control received at the control of the co

With inserticides of ming an exportant part in the control of garden insects, the director explains the composition, the kinds of income an equinst which each type of poison is effective and the presentions which must be observed in handling the insecticides. Assents of lead and the fluorilicates are not recommended for plants where the treated mostions will serve for food, since there is slight danger of poisoning.

The two general types of insecticides, stouagh and anathot poisons, are described in the circular and directions given for mixing, up trans and handling them.

Safety In House Would Reduce Bill Of Go Millions

With home injuries costing searly of the country is allien dellars, wor, the Fourth of July is a good time to start an intensive safety compaign in very tilliquis home, in the opinion of Miss Gladge J. Ward, home was great specialist at the folloge of Agriculture, Universit of Illinois.

Homes seem to be yetting nor dengerous instead of a term the hasis of the evidence that there were 3,700 more intributies from home receil ats in 1974 than the gene in 1935, she said. The total for the past four, according to figure 1970 the Wational Sufety Council, was 3,700, the largest since the enemail started and the estimates of bone injures and depths.

The estimated tetal of both which and non-fatal injuries in the have during the past year was 4,700.76. The cost of those injuries, including wase 1 as. His call or a and overhead expense of insurance reconsted to 6 the little modifies.



Threshing Signer, In Talerma Bolief In Otoca Seliero

Opening of the thrushing second in Illinois is more a local than in a this vect, for it means the end of arouth feed shortages for stocked who have been forced to cuy corn, said E. T. Rolling, divestock extension specialist at the follower of agriculture, University of Illinois.

When corn is worth all a bushel, wheat is worth a dellar for general feeding ourposes, ryo 10 cents, barlor 7 cents and tate 50 cents. This difference between the price of corn and of a all grains allows for the grinding of small grains in most cases. The best results are usually obtained where the small principle are results are usually obtained where the small principle are results are made.

For fittening outile not more than half of the ration chould be compased of any one small grain. Equal parts of wheat and cate form a catification cattle fattenting ration, especially when surplemented with an appeal of catt new damal to each seven pounds of grain along aith alove relate.

Such a ration has been fold to see make the college with good results. The steers averaged ... 36 noted of wind daily for three months. At that time core was 77 sents a bushel, where 7% a good did not 3 cents. A greater prodict was returned on this ration then where corm in aller grain combinations were used with the saw suppolements.

Pigs growing and in tening an arsture do will live through wheat replaces all of the corn in the ration. A ration of what whe to not take question, fine chaice, and proton has also choose growing moralto. The didition of a small tening to what to the original attention ground materials is given that ration.

Guarnes Field Dan Is get For July 1 Main Warton

Resent another ging to turns in the frim industry are expected to help shall the turnout of Gu rusey entale broaders for the annual field by of the Illinois Guara-sey Cattle Breeders! Association which will be held in the St. J. as Farm, user Theoton, in July 10.

Approximately judgetely will attend, according to those in charge of the program. Frof. 7. 3. Rhode, of the dairy department, College of Agriculture, Whise versity of Illinois, will be master of deremonies for the Capita regram, and E. I. Pilchard, boys! 4-H club op chalist of the college, will be in thorse of a Guarmsey judging contest open to touch of 4-H club members from any part of the stife.

In addition to the contest other features of the evegene will include on inspection of the St. James hard, which is one of the best representatives of the mermacy breed in the state. Outstanding unimals as well as workeds of feeding, breeding, and managing the hard well to attrictions.

E. R. McMoil, Fuscile, is president of the Illinois Guernsey Cuttle Breaders! Association, which is arranging the field day. H. C. Mormeman, Danville, is accretar. Paresurer, and directors are F. W. Wirker, Fellowille, R. E. Michelray. Carbordela, and L. C. Studer, Reanoke.

Plans for the meeting have the new name of teams being to the other Goomsey breaders and other drings are taking stock of a number of emocrary sing for turds in the industry. Prices of dring products are made the nighter than they were last year, and with the short storage atocks and a fairly stead, decand should maintain a reasonably firm position, economists believe. Fasture is such in some lover what it was a rear ago, thereby easing the feed cituation, while butter imports, which assumed to 0 million pounds formed the first rive menths of the year, how I again considerable to the disappearance of the insert appearance of the insert appearance of the insert appearance of the insert appearance.



Panners Am Out In Save I justby And Rod Tovor Soed

With supplies of recolour one signthy eved alon smaller than usual and or of such seed being used for soil conservation are crop adjudament surposes, there will be an added premium on all the recolour and timotheseed that Illinois range as manage to save this senses, it is carried of the Picpe are requestion as civilist of the College of Agricular . The creation of the Illinois.

Fortunately, and a placement limiting indicate with the sent this year to elecduce seed in the first outsing of red clover. Ordinarily, how were the first drop is
out for how and the filled then left for a decrease the policy of the deproduct; by this as a
ond drop depends largely upon bees. Since the policy of the very in heavy and stinuy
the prop will now forth is a misse that the electric of interference of policy of the figure and are to
best a rriers of policy.

Red cloves should be seen as and when the fitting a flat on the containing means said Pieper. If the deep is but the like, the beid will enter the bite mutsing means that a lot on the seed will be well a by the thering.

While there is not here is not have a really shorting of the modern by all of or will be the endiast to make un, one can use bicker. A large of the modern control of the production of the form of the production of the large control will not expect the large consequently. Smugh timethy should be less to all 1 of large the franches on medde for so dead year.

The best time to his end amonthy fold is when must a the heigh have to need brown and the soid is just a junity to shriter or matter of the english hards.

Beyou Rund show Weld On Phylicians Water Borlesont

Heavy rains in Illinois juring the parties of the have amphabized the need for proper construction of late to a votal regarded to the construction of late to a votal regarded to the construction accepts hales filled with dirty, unprinted to a votal respective relation to lavation, accepts, randomethics on the following figure on This relation of Illinois.

Resping plenty of our in, tresh anter in every convers and feed lot is a last principle of good livestock consequent and one produced and turns against spread of lisease. The supply may are from a weal, arring or stream, but the natual watering place should be so construct days of protect the enter from a attraination.

Where the source of the water is a jone, the water will remade as the fire season of the year approaches. This will a cossitut the livertone trains smeether through and to reach the stagmant, in one water ambas absolut provide as are made to avoid this.

One of the best or crime writened and a community patter one be anded by building a short concrete though in a spring munid providing a corrupt to concrete approach. This arrangement makes the water craily recessfile for the best and does ever viel to take belongered.

Watering places which me sent comin instance, is testion of all bales on tensor of water are not only useful surjustment screens much as the Sent due or selected worth the mency during dry screens such as the sermer of 1 4

Where plenty of gratic ar stand is available, of how a these detarials and bubstituted for concrete in two constructions of approximate. It even when race wheeld to twilled, since they may to use our lates to t.

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olume XVIII

July 19.5

Number 28

Mologme Fairs Destro, Malli cas Through good Erosin

Welcome as they have been, record rains throughout Illinois this appling have ost farmers millions of collers in soil prosise and left damage which will take years, o repair, it is estimated by each to Posice the bed of the department of taxon my not chairman of the soil course vation committee, college of Agriculture, University Illicis.

Fortunately, farmers and the command on the bear Schattruck by the addition and there is now a more concented a real one ending to balt erosion and the arm lands and valuable soil forture viationer. We said

arm lands and valuable soil features of the me, he said

Streams and rivers filled with riddy within file a stringthan a newly formed pullets, gullys that have wider to be incomed and disches one tave been silted full repartly full have all server to being nome the process of small wide. Prosion has lone to unprotected fields, a cording to Ir. Burlison

In May alone almost could the normal amount of railful was reported by 101 reather stations of the state, or Evilians of the state, by Evilans of the state, by Evilans of the normal amount is all inches, whereas he normal amount is all inches, whereas is a posted in the 10. June is of the state.

Erosion this spring was a second of the million acres of Illinois land, hat should never to formed, or fullish air. Less everel not were suffer there filled acres that are suffect to serious position and that are suffaced in for ore than ing, permanent pasture or times. There is an efficienced area of more than 2, 12,000 acres in the state where prosion lowed the productivity of the land publish it was protected, and limite of it was, he said. Soul washing even edded to its foul in 15,000,000 acres of relativity flat land in the state where prosion occurs in the onger slopes.

Erosion was all the worse during the recry rains because of the right effects of the 1934 dry weather. Dr. Burlish pointed but. In many fields the earth was dry ind powdery when the heavy rains rame, or there are already were he said. With the tup soil washed away, valuable fertility elements were lost and the raw subsaid was brought learen the surface. Once erost in hes advanted to the place where the subsciblis exposed, Nature can build it into tillable top soil only after shoreands of years, Dr. Aurlish said.

The fact that many folds also were stripped of vegetabler is a result of the 1934 drouth made erosion looses heavier this year Dr. Rur 1800 \$811.

Seriousness of soil erosion this arring has given new importus to the work mich the College of Agriculture, University of Illicas has been corrying on for years, their farmers cope with this problem. One of the most recent developments in this work has been the inautoration by Dean H. W. M. Jord of the state coordinated soil contervation and improvement project which brings the the forces of all againsts now letive in this field.

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field robbing for the term or we can be true or a little or binder. The country care binder, whether he calls it with length or motor, let a different rould to be the a widing field, aimed the ball of a left or sink or ballon before the following the motor of the making field, aimed the ballon of the call of motors of the motors of a small grading angle attach data the sink of the sink o

machin , Young states,

Long decrees the respective of the policy of the policy of the body, which because a straight of the program of

tion, that is appoint the map to derive \hat{x} . The Carting matrix map is the size of the structure of \hat{x} and \hat{x} and \hat{x} and \hat{x} and \hat{x} virus ne quan an for modil fillus 13 of a compensar of historica is not remail % as a laray nt bingina.

During related and, while the modern in the distribution of the fun-il complimately teacher training and only of the meaning to assume, It is als leaf to film of tame outing our armining into into the come of make my continuous. will ing rendict.

Fireworks Intok Street, I to m For Fire lim attak

From the of July, with all income in the arraken, arighine count is to an

Frontiers with all into the first of the property, anishing countries as a provision distance of the provision of the provisi



Good Pastures Do Not End Risk Of Sakkernet Poison

Heavy raine which have much Illinois posture tweetant this year know not pudd for dunger of white sucker poisoning to men and to livestook being to a grain to w months, according to a warning in a newly rovisal circular, "Whise he hereof Poisoning," which have just be a less of by the College of Agriculture, Iniversity of Illinois.

Even though parture grows is obtained, unimals may not the lower of the poisonous white snakeroot would from time to time. Even tooking parture, even if they are wood these, increases the risks from the quisbains, which occases even year in Illinois, the circular warms.

Persons using dairy products or next of mimals after a py "trembles," as white snakeroot poisoning is known, may a street milk sickness, as althout with rest a rulid course and log a high mortality rat.

Kheping livestock away from a jet and not and entriesting the word from gastures and woodlots are the enty personal of preventing the poisoning, according to the circular. Treatments that for device or are for area satisfactory. Them to his to ic agent in the plant and in absorbed into the eminable system when the plant is eatin, according to the circular, which are emitted by Dr. Robert Gradus, this is nimal mathology and hygiene at the college, and his assistant, Miss V. M. Missael.

The clast is a tell, slend rain anial borb which as ally cross in partially cleared woodlots, awarmy areas, shady main a canoning rover along at ours. The sreatest danger is from July until late in the fall. This is especially true during dry years when pastures are short and dry. Write and broost can generally be a somized by its creadly eval leaves, but apposite such other and having sharely-t office, or corrected, edges. The non-poisonous varieties usually have nurrower leaves.

In small patches the west is best cradioated by pulling such glant by the roote. In large ratches area a conjuing is the most estimizations means if cradicalled Livestock should be kept out of measures containing any of the word.

Weakhness, loss of apposite, constitution and a troubling of the viletary muscles when the animal is forced to may are among the early symptoms of paintained. When these symptoms are observed the state should be taken from pasture and a reliable veterinarion colled. The immediate attention of a physician and if be given to came of mick sickness among however.

-! [--

Chinege Elm Is Not As Stocky Shade Tree As Believed

A new throat to shade troes in the form of a track canker of thing Junese election has just been found in Illinois, wall as good not has been a more in the ching this particular type of electhroughout to Great Plains region, according to Dr. J. C. Carter, tree disease specialist with the Illinois State Net and History Curvey, most congenating with the College of Agriculture, University of Illinois.

Those developments are a wurniss, he said, that normand who all at Chines or other Asiatic elms in place of the American alm may be disappointed if the problems them has periotics to be entirely from disease without.

The Chinece and other Asiatic Fro, while resistant to the Dates of discus, ar susceptible not only to the two recently reported liberaces but the two revenues at ro. Among the more common discuses which off it Chinese common are set and beset for in conkers and a number of leaf spotting discuss.

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VOLUME XVIII

July 17, 1914

Number 29

Chinch Bugo Fire In All But A Few Scitteres Ares:

Chinch high lave now been he might miner but in Illinois for this season and protacly will not need ver from the setting for four or live years, according to W. . Flunt, chief entirely sist of the Illinois State Natural History Sharvey and of the College of Agriculture, University of Illinois.

Except in a very few coattered treat wer too state there ore not cany climb bugs left, he reported.

By puttice an and to the for enterphic by warries for this pear, the heavy rains which care plan at the right time have been worth wore than 4 million dallars to Illim is prain growers for this jurious alone. Flint said. Decaye to this amount was line to the attraction on a standard of a cy trail 1974 infortation, and if the weather had not have been even for any mobile to the rest, the tall this pear on body wo like have been even for any most alone in 1974, he miss a out.

Unly in the settle of all the settle and the set thick who what a make it work while for fer one of all his order or a centing form field against the migration of the costs for many crain fields at provest time. Flint a in.

Parmers of the offite last per smilt one than \$7,00 miles of measote tarriers, without where the 4 million off or till taren by the bugs would have been even higher.

There could be not one striking demonstration that the weather is the most important factor in the control of chinal bush than has taken place this year, Plint pointed but. Fool coather early in the central of the class is winter marters and thus delayed this content by laying. Letter his nearly rains browned the class and best the gamest as into the growth were the were "modigi" in and died. Pamponess and high humility were favorable to the grand of the white fragous disease which attacks the bugs.

The few burn that were in fined and convived from the first orond are now in conficus or a will be. Flint said. If they have not already don so, they will very shortly or workers. There will then be a general flight and the sigs will scatter over the confiel of will principle the thinker stands of them in order to avoid darmner and made.

It ring the new tyree conths the bies for a tele first broad will remain in the corn. During this to a second broad sill be are book.

Wet weather is logist will greatly refore the second brood and thereby lessen the hanger and the newt year. Flirt a intellight.

Any ungo that a raise from the second hower will start their flight from the cornfields to mint a a crieral, but the last of A sust. The days ent will be concluded by the first of Moreober or explication.



More Seeding Of Alfalta Linely On Illin is Farms

There will be a wave of now lantings to alfalfa and or has true of in Illinois this tall, and many farmers suread, and bying their plans for seed become arution, according to J. C. Hackleman, crops extension specialist of the talley of Agriculture, University of Illin i.

Hay shortenes resulting the tail 12 4 in with, or well as the loss of algebra seedings from late sutting last fall and from the cheets in the wanter, have rate have plantings core urgent this war, he had.

In the northern sections of Illicois at also then here if seeded between July Schand August Lo. In the central and conthern sections August 1 to in the sest period, Hacklesse stated. This means count seed fed aceparation has begin immediately after the scalingrain has been recover from the field.

Fromer seed led transportion is the rost incorrent factors in the successful raising a salfilf, Hardler in colleges. The ground should be well advertised, firm and settler. It notines all the nor proceed of terminations process in the field before, in a lattice in a necessity. All soft one ledge tested for animity before being seeder to animalia. Where limestrie is needed, the parent syring. This work it into the soil late this almost and then one; the animalia ment by ring. This method will give the limest me plenty of this to except the could

In character seed, the namer smalls resiling out to delive, normal cluster conditions, and the appeals toy of barterial value. Variouster wanted to the normal farity and Canadian was expected are severally retrieved to the total one begins of Illin in, since they are agtingely resistant to colu. Renever, they are short-lived in the fore of calt. Where external wilt is he want to be in the cil, a good quality sesterness of column till be sincer burge or two years, which is the average leads of life in allely in will-infectors if, regardless of the variety.

Where the winters are a total levere, the narrangesters collect alfalfac grown in Mantana and the Dazatas, as well as Decrussa and Manses of more on, will be satisfactory.

With the exception of Hardigan seed which is limited, seed of most of the varieties can be obtained although difficulty. Morever, growers should obtain so follows origin and quality, preferably that which has been certified, Manglenen stated.

Twelve to 15 pounds of seed to the acre is the best sowing rate of a fillinois conditions. This is in the basis of all 1 a districts having a logh generation test.

Go d Cats Cros Will Help Bol Feen Worries For Hogs

Frespects for a better than average onto any as the marvest measure of the more chearing than ever the any Illin is largers this pair, since there will now deplenty or mag feel to supplie out the sample of as the from the 13/4 out, the other to W. E. Carroll, chief in swift husbandary as the felloge of Agric Stone. This meaning of Illinois.

Lots is with 90 to 90 for cent as much approved in the facility, if the patient of the patient of the present price with an a consequently the present price with retween normal form cames it consists for most "limbus farmer to reduce out least a third of the permit their grains ration with note. Whose outs and revers the least a third of the exclusively, the cats are worth only 7 to the per cent of a consequent for a first later, lains are slover as the percentage of cats in the ration increases and note that is needed for a given and note that pain.

Record Soybean Crop Will Build Up Reserves Of Hay

A record acreage of soybears ofters Ulimois famors an excellent may of rebuilding hay reserves this year, and the problem of termy weather may adding still be minimized if the bears are cut at the right time, according to fold. Herefore, extension specialist at the College of Agranditure Insversity of Pulmois.

The beans may be out for hay may the firm the forming of the serus in the pods until they are about three-firmthe cover ped. The best sine, reacher being favorable, is when the seeds have developed but enough to that have nother in the pods. At this time there are few if any firm leaves at the lage of the clants, and the farmer will get the maximum yield of good policy may.

Since soybean bey is slow to and active the fall weather begins, it should be cut as early as possible after the sould begins to form, Hackleaum soid. For most of Illinois the last meek in August is gradually the most ideal time for a strike of soybean hay. The weather is usually dry and fairly but, and the heavy deve and cooler days of fall have not yet true.

Bean hay may be a theither with a nower or a grain binder, although the mower is usually the most satisfactory for Illianis conditions. If out with a nower, the hay is generally allowed to dure to some extent in the swate and then raned into windrows before the leaven are dry compact to whatter. Some farmers, however, prefer to rake the hay immediately after nowing and allow it to come in the windrow. This has been found an excellent method if the weather is large and hot.

A grain binder can be used in dry weather, but the builter must be swall and loosely tied. If fall rains occur so they did in 1974, each bundle will probably develop a fully core whout two or three inches in diameter,

-1./-

Rainy Weather Making Logoviders a Forelar Hay Cran

Les edela, the legals which has sured factor than any new or mintroduced into Illinois in recent years is gaining added populating in a season like this when farners are beest with the mobile of curing may recommon rains, governing to 7. B. Nevens, dairy cattle feeding proceedist at the College of Agric Ature, University of Illinois.

Being light steamed later to mat be and comparatively quick to a me, lespedera fits into a samer like the present when previent rains happen the justify up of alfalta and similar crops which require a linear time to come are erly and meet be out early in the season.

Tests at the college have shown that horson lessededs and alfalia are practically equal in feeding value. The only noticeable difference is that the cattle show a slight preference for alfalfa then both have are available.

Lospedora, out at the full-bloom of the large found to have forcer cent leaves and to show 10 per cent protein and 3 per cent lime. Good quality olfall's may is slightly less leafy, registering 49 per cent. However, alfalfa has 16 per cent protein and 4.5 per cent lime.

Milk production is practically the some whother down are fed attalta or lespedera. In college tests average doil, and order tion who lead are extented; do not not 4 per cent milk for each now regardles, of which long has been fed. Nevel of total, Nor have the two hags shown any voringe in their ability to produce point are tell to your dairy cattle.

To make the best quality hay, lespeders must be not it about the fill live stage, which is late August or early September in Illinois. As the send stage approaches, the hay loses its helatability. Korean lespectual reaches the inent of they stage in southern and central Illinois in late August on early September.

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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Earm Advisers and others from the Agricultural College,
Experiment Station, and Extension Service

Volume XV [1]

Just 24, 1935

Number 30

Cross-Ou tivating In Laying By Corn Checks Erosion

Destructive erraion on a retinan of million expess of Illinois farm land can be enterially reduced during the remainder of the year if farmers will only cultivate across the slope when they "lay by" their coin for the season according to H. L. Buckardt, carer soil erosion extension specialist of the College of Agriculture, University of Illicant.

Mark throughout fithe estimated 7.589,000 stores of some in Illinois this year is an include which will was given top soil, drain off valuable fertility and jon will store or as aless traper protective measures are taken, he said. If the corn is cultivated for as the slope at the last collivation, each showed mark will serve as a information to help the last of lower and of water, he pointed out.

in ripertal results of Bethary. Mo., show that as much as 74 tons of soil an acre and least annually from less sloping P per cent that is growing continuous torn and out is cultivated up and down the slope, Buckardt reported.

"The comparatice in Illimis is to casek the commons the long way of the rieli, thick in many cases results in corn rows manuage up and down slopes. Consequently often the corn is relieved to, each row serves as a surface drainage unit for the class.

"The metter frome minion that crops should be planted up and down the slop so that each reveral take care of its or writer is no longer a desirable one. The last printed is to clast end additions corn so that the rows run across the slope. Each rowritigo them her a check the film of mu-cal water and thereby reduces the losses from crosion.

"This cultivating across the slope is always sound crosson prevention, it is nost important when the corn as said by at the last cultivation. The field will, in most cases, remain without further cultivation throughout the stunier, fall and following spring. If the common practice is collowed, the plow ridges and furrows up and man the slopes during this long period of time will create ideal conditions for serious lass s from erasion."

Cultivating across the slope is only one of the practices which must be more generally adopted if soil erosion is to be controlled, it is pointed out by specialists of the college. Seriousness of the problem is revealed in the soil survey reports of the college which show that there are more than three million acres of Illitois land that are so edject to describe erosion they should never be farmed. Then the inother three million acres that are subject to serious erosion and are suitable ally for orcharding, permanent pasture or timber. There are more than 12,000,000 acres where erosion control practices are necessary to maintain the rod point of the land.

- N-

T. Of I. Station, W I L L. Reporting Grain Markets

A five-mint report of the Chicago grain market is now being broadcast hily except Suncycles, 9.80 has 10:55 a.m. by the University of Illinois radio totion, I I L. It broadcast on 890 bilocycles.



Wet Weather During Having Heightens Dar, er of Fire

An estimated annual loss or one million dollars in Illinois trom fires raised by the spontaneous combastion of wet may may be in reased this year unless farmers take extra measures to prevent the heating of hay which has been dampened by the frequent rains, according to Z. W. Lermann. He is hear of the department of agricultural engineering at the College of Agriculture, University of Illinois.

Hay which goes into the burn or stack while it is damp from mains or dem is almost sure to heat. In many cases the temperature only gets high enough to speil the hay, but there are frequent cases where enough heat is generated to start a fire. The meat is caused by bacterial and chemical actions which are specied up by the presence

of excess moisture.

The best preventive is to avoid jutting darp day into a barn or stack. However, frequent rains this summer laws made that impossible in many cases. Lehmann said. If the noisture is only slight, the sprinkling of salt on the hay at it goes into the barn or stack will usually slow down the honting amough to provent combustion, Not more than 20 points of wilt should be used to each ton of hey.

Spreading the damp has but in a thin layer will allow it to dry more rapidly. However, such hay should not buy he don top of dry hay, he the dry hay will burn such more readily and may eatch from the heat of the case layer on top.

Where long key begins to heat, it is dangerous to move any of it until the whole pile has been thoroughly socked. A slight disturbance may admit enough exymen to cause the hay to burst into flam. Chapped hay can be handled readily provided mough water is handy to sprinkle may burning portions which may be removed from the ile.

A leaky roof is a possible source of apager as well as the mount of spailing considerable hay.

Alfalia Ic Good Sum. Pasture When Bluegrass Icils

With the bluegrass pasture season radial; coming to a close in most sections of Illinois, the record acreage of alfalfa growing in the state this year offers a satisfactory substitute, said J. C. Hac leman, crops extension specialist at the "ollege of Agricultur. University of Illinsia. Alfalfa is especially good in maintaining the flew of milk from dairy cows.

Danger of bloat is very slight if Stockmen will follow a few simple precenttions, Hackleman said. In fact, there is little more danger than in pasturing red

clover.

Two general precautions should be observed in past ring alfalfa. First, it should not be pastured when it is wet nor when the cattle are hungry. Second, the cattle should be fed glenty of dry strage and have access to plenty of water at all times.

Alfalf, that is vet, either from rein or a heavy dew, is much more likely to cloat the cattle than is alfalfa that is dry. The danger of bloat is increased when the cuttle are turned on to the pasture while hingry, for they will gorge themselves with the green, succulent feed. A regular feeding of grain and good forage jist before the cattle are turned on to the pasture will cause them to eat more leis rely and in smaller amounts. Thus the sifulfo becomes a part of the Sammer ration rather than the entire ration.

Such dry forage as alfalfa hay and o to ser we along with planty of water at

all times will aid materially in avoiding alfalfa bloat.

Pasturing of alfalfa will not injure the crop of the rapture is not everloaded, Hackleman stated.



Proper Timing Of Peach Picking Larresson Prospects

With prospects for the best crop in years, Illinois peach growers can still further increase their advantage this year by delaying harvest a week or so longer than is the usual practice, according to M. J. Dorsey, which in possegue, and R. L. McMunn, associate, at the College of Agric Sture, University of Illinois. Frospects now are for a fine quality crop of 0,420,000 bushels, which is about the five-year average for 1928-1923.

That's made at the college show that the same made of peaches which will make only 100 bushels if picked on Angust 10 will make 194 hashels if not harvested until a week later. Harvesting at the right time thus allows the peaches to reach their maximum size.

Many peach growers in the past have harvested the major part of their crop during the early part of the ripoding season just after the color of the fruit began to change from green to yellow. This was done in the belief that early marketings would not greater each returns, here better in transit and each element rown rot.

Early-picked fruit nows not rough its maximum size. Consequently the yield is below that or geach crops harvonted later in the riperang period. The advantage gained from early caractings as well as from the tetter seconds, qualities of the fruit picked at the half ripe stage are outwrighted by the smaller size of the peaches, it has been indicated by the college tests.

Elberta and other yellor varieties of penches are at the ideal harvesting stage onen the chins have changed into green to a light yellowish green and have about a 25 per cent blash appearant. At this stage the fruit will be of closet maximum size, but still be firm enough to withstand shipping.

Peaches should never be left on the trees until they become "soft ripe." While they may be excellent to ent freeh at this stage, they will not withstand shipping or storage.

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Tsing Resistant Wheat Only Known Way To Check Rust

Planting resistant varieties is the only known means by which Illinois wheat growers can control of breaks of yellow leaf must such as have occurred quite generally over the state this year, said Tenjumin Modulos, crop disease specialist at the College of Agricolture. This perity of Illinois. Penng a fongous disease, yellow leaf rust is spread by operate. Moist whicher increases the chance of infection. Unlike some kinds of rust it requires no altern to host, since the spores infect the new crop of winter wheat in the full and live there intil spring. So far, the development of wheat that is recitant to leaf rust as still in its infuncy, according to 0. T. Bonnett, plant bracking crecialist at the college. However, a few varieties that are partially resistant to the discuss have been coveleged and are evaluable.

-ivi-

Plaies Control Himses On Following Spools Menhares

Instead of increasing no it now is, robles and other which sould be practically all instal if every person would follow a few single precautions, according to Dr. Holert Graham, direct in animal pathology and hygienc at the College of Agriculture, University of Illinois. Last year Illinois is 5 % to dog cases and sight human fatalities as compared with only 191 dog cases and four brain fatalities in 1930. Avoiding the handling of strange dogs, eliminating ownerless or Stroy ages, placing rabid tog suspects under observation, consulting a physician in the case of dog lits, vaccinating all dogs an early and obtaining macro-copic diagn six of ratio dog last pacts are the chief precontions in suppressing vabids, Dr. Graham said.

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Timely Notes for Farm Advisers and others from the Agricultural College.

Experiment Station, and Extension Service

VOLUME XVIII

100 y Au. 1905

Vamber, 31

Peach Prospects Temp, But Quaity 2 west in Years

Although the II-1001: per theorem will "coron smaller than earlier properts indicated, considers have screeking to the durward to in the way of higher quality in the from which will be no vector that pair, according to V. W. Kelley, horticitum extensions acceptist on to collect of against the property of Illin in The Illinois 31.00.4 or one appears to be randspeed between August 5 and 25.

Recent experiments with a white the large constitutes how both quality and yield the content are improved to the ligher quality which is transported if II. The content got this year, Kellov said. Convinced by the results of these cests, many provers are expected to let the fruit ripen in the transfer what longer than has been the practice in the past with the result that the natural flavors will a metap, helley explained

Penches proceed to green refore the ground color begins to turn yellow never require the natural flower, and arome which are essential to that high degree of palatability that is expected in this fruit. Because peaches are generally picked somewhat green for distant shipmont from one softe to the other, Illinois consumers are more likely to get highly-flowered first as they buy Illinois-egroup powers.

somewhat green for distant shiphort from one south to the other. Illinois consimers are more likely to get highly affavored for it in they buy Illinois agreed, but also "Not only does delegal picking increase the quality of the peach, but also it greatly increases production been so of the larger size of the fruit. In the 1934 experiments fruits horvested seven have after the normal problem date made about 25 parcent for orbit than they would it bisked in the usual time. Then is, each 100 but his in the read on the normal problem fate and consider the last problems given days at in the result not only was larger but also served to last bushels given again which is the test quality to a low read at one than helf the bumper crop of 4.00 000 bushels of 1000 papers which and a latter from after this ingrees.

interestimates place a collection of the standard for the bumper crop of 4. Second for the smaller estimate. Because of the reduced yield the lillinois crop is expected to move at a price value should bring a fair return to the grower, Kelley said.

- M-

Shows And Fairs Keap are 15, July 4-1 Club Member's Busy

with an estimated low shown and fair our various kinds scheduled between August I and December 15, according to reports resoning the extension service. College of Agriculture, University of Illinoi: The majority of case events wall take place during the course six weeks.

Thirty-eight club shows will be \$200 mm is counties during figure, it is shown by partial reports from these or the and the same reports indicate that July, with 19 shows already said. Will probably we that a hid amplify, monthly. September of the unit 32 clus close scheduled, while of our mas two and Movember and Docencer such has three. Club to means at the ollege estimate that approximately half of the club tows and fair were included in the pirtial report from 45 counties.

Fastures Will Be Made Or Ruined In Next Pen Months

Fastures have recovered remarkably from the drouth danage of 1974, and formers can hold their gains by careful management during the rost of the summer, according to crops specialists at the College of Agriculture, University of Illinois. Protecting pastures at this critical ceriod of the year also will help promote too shift from grain to more grass and legals, it was pointed out.

Overgrasing, poor soil, dry weather or any other condite a which tends to slow the growth of pastures will give woods and crush a cheace to get stanted. That summer's droath, which killed and large patence of pasture grass, gave the woods on

excellent chance to get startel.

Getting rid of these meet is the first measures to be followed and the pasture canagement consider for the rest of the semicer, the specialists say. While the small patches may be imposed out or killed with chemicals, cowing in the best eradication method for larger areas. Moving prevents many annual plants from producing seed and at the same that discourages growth of the personnals.

Mowing, grubbing and prisoning will not , et all the weeds the first year. These practices but be continued from year to year, and the furmer will need to be

on the elect for new patches of his ds.

Use of idapted so dimensiveres and proper fartilization will help coment the weed menace and at the one of could be and a tag pastures. One dixture which has given good results on the college of moint aposed of a premas of Kantucky theorems, 3 of red top, 10 of brond grass and a stability about and control Illinois protored that the soul is sweet and a number madical to high amounts of available partered that the soul is sweet and a number of sweet clover, 4 of red clover, 1 of white clover, 6 is brungared and 4 of timothy. A recommended combination for northern and central Illinois pastures with sweet soils but which are low in available phase brank includes 3 counts of sweet clover, 3 of claike clover, 4 or lespedezt, 4 of timothy and 6 of the paper.

A mixture that can be used in southern Illinois y sturus with slight to medium acid soils that are medium to high in available planaphorus contains 2 powers of alsike clover, 5 of less edecs, and bluegrass, 2 of medium sinus and 6 of red top.

Many times weeds get into the parture the man impure read. This can be availed to a large extent by the parchas or guaranteed seed from reliable dealers.

Culling Will Fix Flook For Better Foultry Outlook

A favorable fall and winter outlook for egg prices promises added bine its from the careful and thorough publing of the laying flock this summer and roll to get rid of the non-layers and other "bounders," recording to H. H. Alp, positry extension specialist of the College of Agriculture, University of Illinois.

Good layers not only will produce more eggs for the favorable markets that are now in prospect but also will pay botter returns on the feed they eat, he said. Since the average hen uses six to sewin be added for soon from

"eat their heads off," he added.

How close to call the flow appends against size, average production, number of pullets available for realgoneout against a factors. It is bign-trol sing flock the calling can be done very closely, since the percentage of non-layers will be small. On the other hand the producer was has only a limited nature of pullets coming along may wish to call a ther lightly in order to as it as leting his alone.



Prospects Of Soft Dur: Put Trench Silo In Limelight

With condition of the state's 7h million acres of corn, mostly late planted, continuing Lel waverage, then a silectif fair to become an important factor in the preservation and are of soft corn which may to prevalent in many sections of Illinois this fall, it is sail to E. W. Lehmann, head of the department of agricultural en-

gineering at the College of Agriculture, University of Illinois.
Soft can is difficult to stone in wribs, bins or barns, but makes excellent silag . Since it is them, simple to construct and costs less to fill, the trens sile a ear to be one of the best means by which Illinois farmers can store this set, is attraction. The above anitraction equipment needed is a plow, slip anitractor or them of horses. Two men with this equipment can construct a trench

sil: in from two to four Pays decending upon the size.

The rile should be a natural devicts a slight slope in the sides and on high ground where there is less likelihood of stunding vater. If a bank or slope is avail-

ntle, the lower end of the "tranch' may be left open as a natural drain.

Silugo last as will recome and kept higher in the middle than on the sides during the cilling process, r il Lamana. This causes the silage to settle in a rounded manner and r tre lashing it any stack. Covering the silage with about a larger 4 inc. Layer of firel out the wellowed by a layer of dirt will help keep out

Hog Iriosa Put Bris n Curbing Loss From Disease

Staller notes of hers combined with higher prices now make it more worthwhile than ever for immers to inclinate their pigs and take other precautions against Issses from chalern and ther accesses, it as pointed out by Dr. Robert Graham, chief in anital path logy and hygiene as the College of Agriculture, University of Illinois.

Victinations and let be performed by a competent veterinarian and certain predictions taken. Dr. Grand solid. Chief among these precautions is to keep the bags on light feet during the vaccination period.

Hoas that are is a vily before, during and just after vaccination occasionally full to become imposite cholers, experimental tests have shown. While they may be Suit from the disease for a short time, they will become susceptible as so n as the effect of the strum wears off and may even develop the disease from the vancine.

The test method of handling Mogs that are to be vaccinated against cholera but them on a very limited feed for at least three days prior to vaccination, Graha: wii. The should be kept isolated from untreated hogs and gradually brought

back t full 13ed after being vaccinated.

Another quation which always arises when hog cholera is in the vicinity is that regarding the regard of spreading the disease. Experiments at the U. of I. Collage of Agric lture and in other states have shown that the stable fly which bites Thinal t and remans so viciously about this time of the year is one of the more important funture in the spread of cholera.

The stable fly appears to be a worse offender than the house fly, although

notice lies have been anom to transmit the disease.

Indications are that man is of less importance than was formerly thought in prescing in lerv. In fact man has been shown to have very little effect as a spreader.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

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Number 3

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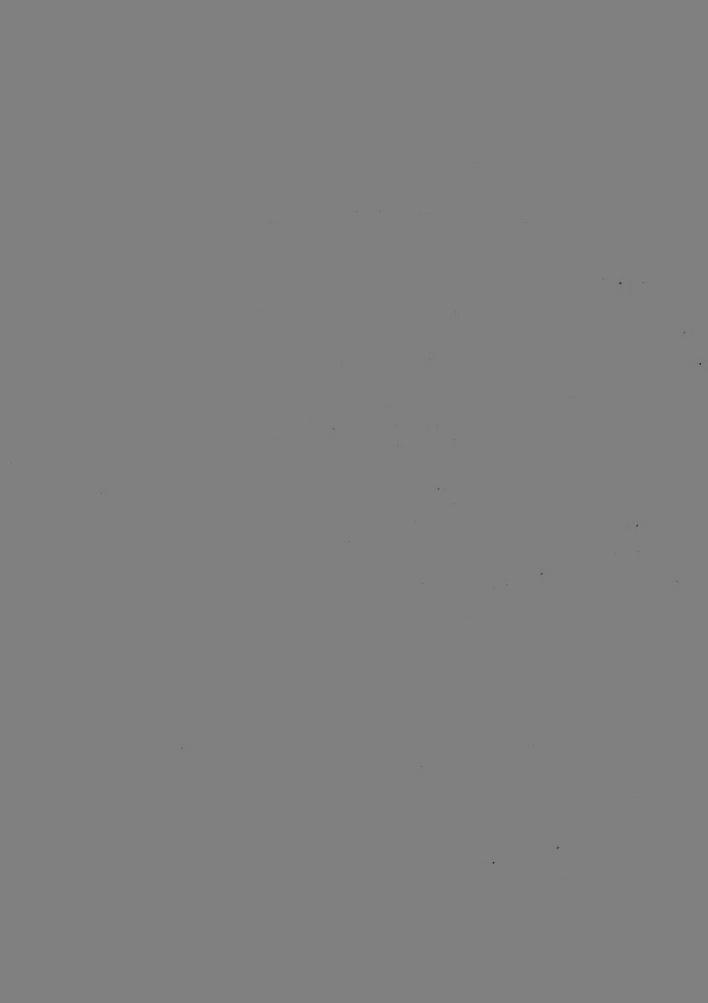
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1 to 1 r o 1 1, .. It Bo Featured At State Pour

A control of vices and blad form nine different countries that will be control or the August 23 progression for the State Fair at Springfiel, it is an ounced by D. E. Lindstrom, rural or inless external as smiller at the College of Agricultume, University of the control of th

The primary of the state of the

U. of I. At the continue lead is visiting the curious competing counties to assist the character are Fore Workers, Kuriell, McLean, Champaign, Troquois, Shelty, Sample and Divaris. First the fill be \$1.0, second \$110, third \$100, nourth \$1, and \$2, sixth \$1, and the last the each. Additional prizes will got the three groups and the country \$1, and \$2, sixth \$2, and the last the each.

g to the three grown in the court & will meet meet a game in each choins distange travel it mount to court in an eagree of elance among the various pants of the new paints.

The relation of the result for expecting foreign the dyected. In addition, the control of the control of the result for expect to Demoning will be presented. The fear electrical control of the relation of the area of Tor Thee G Country, by Birthere, "In Hurry Dane, "and the fear of the Book of the Book of the Book of the Book."

The interpretation of the form of the partions counties are as follows: Borne, North Lubian. Briving the remains and E. C. Biley fram adviser; Champaign, Mrs. R. T. Milliott, Israels, the interpretation of the Grand Conn White, home adviser; Enward, W. J. Mariana, or interpretation, its Grand Durnham, Watseka, director, and Mrs. Rett Framman of the restriction, Mrs. Carr. Frank Sweet, the advisor; McHenry, Wrs. Carr. Grand Sweet, the advisor; McHenry, Wrs. Carr. Grand Miss There are advisor; Sangahar, Wrs. Homer Kearnagham, Springfield, sire tor, of Eight Bar, and advisor; Shelby, Mrs. Winefred Bolder, Moweaque, theirman, and W. S. Bats at tarm divisor.

-11-

Consular: Have Fare Copyletonder, In 1985 Peach Grop

Tit. Illin is about to havest the best neach crop, in five years, consumers have any country to file, a type of quality years and lay in a supply of quality years against the years when the country ill again be short or a failure, it is pointed not by V. T. Kelley, having a preparation specialist of the College of Agritule, Thiversity of Illin 1.

It a fer he certives with an eye to their food costs and their storage cellar and lies are planning to call a dipreserve enough peaches for at least a two

Ins Illin is or and Ilbrotas, the command variety in the state, is exected to analysis of the n A g of Seant 35.

It is a little to a second of had a chance at an Illinois peach crop that is a record of the chartest the control of the contr



Present-Day Hogs Not Best Shited For Market Veols

None of the present-day types of swins affectively most carron charact requirements being set by the low foreign derand for nork and hard and the set star preference for small, lean, firm outs, finished bellies and a minimum of lard, according to experiments conducted at the College of Agriculture, University of Illinois. The tests have just been summarized in a new balletia, "Value of Present-Day Swine Types in Meeting Changed Consumer Demand."

Of the swine types now summed on fames of the country the intermediate comes nearest to meeting present-day demands, it was found in the tests by Sleeter Boll, associate chief in neats; F. C. Olson and J. E. Hont, formally assistants in animal husbandry; and T. E. Carroll, chief in skine husbandry at the cullage.

An ideal nog sould combine the quality and plumpness of the intermediate

type, the length of the range and the larly hat rity of the chaffy.

Intermediates rated good as to gains on lidresting percentages, sincland cutting percentages of wholesale dats, quality or hard and leins and would be lard stock produced. Their market grade was good in most cases but a few larked finish, according to the bulletin.

Pror finish and firmness of the ment, especially the bellius, were the main defects in placing the chaffy type size nd. There was also come tendency toward too

much lard roduction from this ty o.

The rungitives, which was reted tained, shower favorable gains and inessing percentages, gape out sines, good at lety large fair lains and the reget proportion of lard coack. However, the bellies were unfinished and soft, and the careasus generally were lacking in firmum.

-11-

\$20 Cave Fars Big actions In Protecting Egg Guality

Twenty dollars' wirth or material and a few days labor put into the construction of an egg storage cave have helied Lyman Brunting of near Altion prevent low quality eggs which cost Illinois moultrymer thousands of dollars every year. Busting, who has been cooperating with the extension service of the College of Agric Itura, University of Illinois, on improved a caltry practices for several years, has added approximately a per cent to his egg cale returns by building this cave, it is estimated by H. H. Alp, poultry extension specialist at the college.

Having built my reduction of his flock of FD. White Leghorns to a high point by following approved practices, Bunting recently become interested in getting a better cash return from the sale of his eggs. His first step was to start grading the eggs at home and shipping them direct to distributors who were paying prices based on grades. This practice brought considerably higher returns than the old nother of

selling the eggs on the count backs.

With the coming of warm weather, low grade eggs were found in each shipment despite the fact that Bunting gathered the eggs reversal times duily, graded the looteding to sine and other and ship, is then incomentally. His duiful ltp sate a loote of

cool storage smace.

He built a small cave about six feet wide. It feet long and seven feet decreable bricks secured from a local brick pard at a mostle cost were used in constructing the cave, which is covered with dirt and vanue to help mean out the heat of the ran. Trays built of hardware cloth are not up in the cave so that from the paths of a local cave so that in single layers to cool repictly.

Decause of this rapid cooling and storage on the agas until they are be dy to be shipped, Bunting is finding that fewer of his eggs are called but because if

epoilaga.

STRICTIONS INDOORS

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COLLEGE OF AGRICULTURE-UNIVERSITY OF THE INOIS

Timely Notes for Farm Advisers and others from the Amendment College. Experiment Station, and Extension Service

Volume XvIII

Avgust 14, 1 15

Witmher 3

New Cros Is Budding for lace as & Leading Lagrang

Tespedaza, a rejutively new origialready groves in Illinois to 観点 extent of 1 , 000 scres, promises to become one of the leading legome crous of the state, especially on suits of love. It dustive totals, according to experiments conducted by the Dollege of 'wrighture, iniversity it Illinois during the past 43 ears and recorded in a new bollerur, Massedesa in Thispoil.

The trop sector value is a course to be war to some its importants fair, from the free seasonad insert point on the sector of the seasonad insert points on the sector of the spectage of the is spated in the sollering repared by solling figures. Top prove the spectage of 0. H. Hears, still below the ann F. D. Born, class an Boll cuperinent iteria so we ocline.

lespedeza is valuable not as a constitution θ large to crop top of FF legro, but for its ability to the converge of a large to train a monapoid soils, lessoned will not grow satisfactorily. This is a result of any soil and account of a large to the converge to the pedeza will do fair, well on soils related any soil and poor a quality.

Thus is a residue farmers at the legree which will set in motion the processes of soil improvement and arrower are trained in the large shiftight outlay for

fertilizing natorials.

Although the beare will grow in creaturally all parts of the state, it is beithr prapted to the southern and centual normals, since it is resistent to dry, hot weather and sense or to freezing veather the early spring and date that b. " eti stated.

Photong: in the seal is alled for the first time. If the seal is alled into the

The legarn is value to the type as a fasture or soil improvement crop ale though it produces a very cutisfactory has and in a deful in a tarding said for sien. As a pastore crovit furnishes the ' - pasture leginning about July 1 and contamunas until late fall. It is also valueb - as a seed arop. Although The impressing screage indicates seed will become loss Emportant as a cash crop in the future.

Annual varieties bear adapted to Illinois conditions are headed by Komean, although a ler certain conditions Tennesse 76, Robe and Common may be preferable. In the northern wort or the State Harbin is the only variety that may be expected to be self-seeding. Sericea, a perennial, is showing routed as a hey crop for southern Illinois, occording to the bulletine

Il was To Become Farm Adv > In Bullaska addensance:

1. 1. Chars, form rl; vor tional agricultur tracher at Chester, will stept work September 1 as farm adviser in rul ski dear the counties with meadquar - set Mounds, it is announced by F. at J. 2. With a late Lader of farm advisors of the College of Agriculture, University of their a. He suc ele for Gordon who resigned April 1° to accept - position with the MAX land police services.

Smiller Perches Are Not Bargoin When Whate Jounted

Unless small beaches are officed at extremely low prices, consumers will be money ahead if they buy the larger, high-quality fruit being hervested from Illinois orchards at the present time, stated M. J. Dorsey, nomplogy chief at the College of Agriculture, University of Illinois. Too much of the "bargein" prices that are paid for small peaches goes into seeds and pecling, he pointed out.

A bushel of large peaches two and one-half to two and three-fourths inches in diameter contains only three pounds of seeds, according to tests made at the college experiment station. In contrast a bushel of small peaches one and one-half to one and three-fourths inches in diameter contains about six and a half pounds of seeds with a consequent decrease in the amount of accepte fruit flosh.

Not only do small penches have a greater proportion of send to flesh but also they are more tedious to clean, peol and prepare for canning, Dorsey emplained. Those three inches in dismeter run about 1% to the bushel, while those measuring two inches run close to 30% and the smaller ener approximately 1, 90%. Since each peach must be handled separately in the canning process, the size becomes an important factor in the use of time.

Another fact brought out by tests on the various sizes of peaches is that the smaller fruits have for more skin to the bushed than do the larger sizes. The smaller sizes have about 35 square fact of skin whale the larger sizes run as low as 23 square feet. Since pealing involves both time and some waste of fruit, the smaller amount of skin is a point in favor of the large peaches.

Small teaches are seldom economical in the long run, except where the Sruit is to be used for spicing. In that wase the smaller sizes may be advantageous if the price is low.

Quality Of Chions Went By Proper Harvesting Wathods

Onions both in home gardens and on commercial track forms are of unusually good quality and size in Illinous this year, according to reports reaching B. K. Weaver of the vegetable gardening division at the Callege of Agriculture, University of Illinois. By following the best harvesting and curing mathods, groducers can preserve the quality of the product either for market or for home storage, Weaver seid.

When an anion ripens properly, the mack shrivels first and the tops fell over while they are still green. After the tops have follow, they gradually turn fellow and finally become dry and brows if the onion is not pulled. The best time to harvest is just after the tops have started to turn pellow, Weaver stated. If left much after that time, the anions are likely to start a second growth especially if a few good rains fall after the onions have ripened. Those that have once started a second growth are useless for storage and must be used as soon as harvested.

When the lerves of the onion start drying from the com down while the neck remains right, the vegetable is not ripening properly and should not be saved for storage or shipment.

Onions may be dried, or "cured," wither by placing them in windrows or in shallow crates. Where they are placed in windrows, the tops should be left on to protect them from sunburn. This method is satisfactory where good ventuer prevails. It is safer, however, to twict the tops from the onions as trop are pulled and place that in shallow crates, Weaver said. The crates should have slatted bottoms and sides so that in may circulate freely emong them. The common ergod crate is four feet long, three feet wide and four inches doep.

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Inter st In Bors: Pulling Contests Chowin; Increase

Growing interest mong farmers in more and better horses and the consequent strengthening of horse prices is reflected in the rising equivarity of horse pulling contests being stoged in Illinois this summer and fell, recording to F. T. Robbins, minal husbandry extension specialist at the College of Agriculture, University of Illinois.

Contests have already been held at Wheaten or June 15, Therleston on August 5 and Mt. St rling on August 3. Other contests on the limit are Pinchmerville, August 13; Albion, August 15; Wetsche, August 16, Turinguisli, August 17 and 14; Acceptable, August 23; Plentonica, August 24; St. Joseph, August 27, LaFayette, August 28 Augusta, September 3; Sandwich, September 4; Knoxville, September 5; Pridgeport, August 6; Monticelle, September 7, and Fermer City, September 16.

Those contests, supervised by Robbins, have been useful in illustrating the pulling value of horses, as well as the importance of proper bre ding as training to

increase the fulling efficiency of horses.

Adding inter at to the converte this year is the fact that a new State record has already been exteblished for terms weighour move thin 3 000 neumle. This record was established it Wheaton on June 18 when a paid of grade Parch run geldings owned by Charles N. 44t, of Samisiah, lifted 4.400 neumda 27 for time the M. of 1. dynamometer. The can a record was 1,50 powers. This team, a sighing 4.400 powers inferented several of the best term. From neighboring states, as well as illinois entries.

In the class for terms weighing less than 3,000 beames the exercisestablished by the term of Willord Roods, Scringfishs, in 1952 is still unbroken. These two

horses, weighing 2,9-0, lifted 1,7% occurds to a weight of 7% foot.

Scheduling of a stallian pulling concept of lincoln Exelfo, Crote. on Detaber 12 marks the first time in the distory of draft barse breading that blifty to move a heavy look in a mublic content of the post of a standard of merit for draft stallians according to J. I. Educate, this is harde hasbandard at the College of Agriculture, University of Illinois.

This contest, the first of its kind in the world, is being held by the Horse and Mule Association of America in compensation with the college. The mulling news residue stallions entered will be recovered by the Wood 1. dynamometer under the supervision of E. T. Rothins, crimal husbandry extension specialist. The cosh primes totaling \$1,500 will be awarded to the sympass of the 1 lest unlikes.

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ther tople Rust Set Liberty To Decogo Warn Servis Tree

Apple produce, a of 1. inois, besit by the quart disease which is consing some lesses especially in the mentern part of the state that pure, was considerables by the fact there will be practically no drange for. Then decrease indicates a few particular appearances to H. W. Indiason, fruit of hology appearance at the College of Agide Curv. University of Itlansis.

Quince rust. In fungous discusse rarely observed on applies before this sector, spends a part of its life or the rod cod r trues that grow in many protected the state. The spores which would normally attack the 196 angle on presendent or destroyed for large extent by the hot, or worther of 1964. Consequently, little infection is expected next we r.

The most attacked the apple of histogeth of most tiemed within the lation of the birch must spot. As the apple opens, a critic limit deposition at for all in the lisensel area, disfiguring the apple one administrative to view of the for our sting or home ase. Quince must does not ordinately attack the inverse decay be must as continued.

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Timely Notes for Farm Advisers and others from the Agricultural College,
Experiment Station, and Extension Service

Volume XVIII

August (1. 1975

Number 34

More Youngsters Becoming Active In Local Affairs

An increasing marker of Himbis mural young people are becoming factors in the betterment of their home remonities through their activities as groups, it is reported by the extension service of the College of Agriculture, University of Illinois. These groups not only help in move farming and homemaking but also contribute to a richer and happier social life. Active in two contributes in 1901, such groups may now be found in 49 counties.

Tounties in which young possels ofter than 4-H club age but still too young to take their charge orang the grownings have become active since 1951 are: Adams, Bond, Bonde, Eurem, Company, DeWitt DuPage, Edgar, Edwards, Efficiend, Hancock, Henderson, Iroqueis J. Daviess, Kame, Kondell, Knex, Lake, IaSalle, Lawrence, Livingsten, Macon, Mccoupin, Action, Lorin, Morarell, Mosa, passec, McDonough, McHenry, WcLein, Marcer, hour at Fike, Fi tt. Fops, Falsoki, Fatnam, Romanlph, Richland, Scott, Shelby, Tazowell, Warren, Worlington, White, Whiteside, Will and Woodford,

Activities of these or me resorted a series of meetings two weeks apart noting of the resolution of the meetings to interest them in the county's problems and possibilities. Richard county youngsters operated all concessions diring a recent farm sincing and turned the profits over to local agencies working for the petterment of agriculture and home economics.

Other grows have attached economic problems of the home and community. In Adams county the young people are making studies to determine whether or not older children remaining on the farm can produce editional income to compensate for them, living expenses.

Fifty-three Moon county young people are attempting to enlarge on the recreational and good reliamship facilities of the county as well as to find ways of proadening their general knowledge. Livingston, Hancock and Bond county groups are interested in "Mnow Illianis," one of the projects prepared recently by the extension service to neet the needs of young reople's groups.

Older toys and girls of Scott county have found the "Building an Value on Jome" project attractive. They have also shown interest in droma production, as has the DeWitt county group. These projects along with "Know Illinois" were arranged by 3. S. Randall and Miss Cleo Fitzsimmons, junior club extension specialists at the college, in response to demands from the groups. Assistance in ordering the "Build in Outdoor Home" project was given by Max Buller, landscape gradewing extension specialist, while D. A. Lindstrom, rural sociology extension specialist, has well along the project on drama.

In Wachford county a group of young women are making detailed studies of everylar art as applied to their individual needs in clothing designs and objects. In hidition this group is finding foreign mokery not only interesting out also well full in tringing new foods to the party table.

Many other activities are reported from an ing the 49 counties, but in all cases the pulmagineoule's groups are attempting to follow a balanceour counties from the rooties will happier a mornity to



Fertilizer Trails Solve Froblem In Swelt Corn Crop

Although growers of sweet dera, one of Illinois most important grows, have all but abandoned use of commercial sectilizers because of poor results, it has now been demonstrated in dix means of experimental and by the College of A minute so. University of Illinois that proper use of such fertilizers markedly improved both the yield and time of maturity of sweet corn.

The test results are reported in a new bulletin, "Wertiliner Requirements of Sweet Corn," by W. A. Huelsen, division of olevinghture, and M. C. Gillis, former member of the division, who consucted the experiments.

Illinois is the leading state in acreage and restation of sweet corn, but growers have taken losed for some time because fields, pushity and meturity of the grain were not what they should be. Although commercial fertilizers have been resorted to, their use has been abandoned in all imment isolated instances because of very slight or even negative results. Or until the time of the Illinois experiments but little reliable information was evaluable as to the eases of this disappointing showing and the best methods of using fertilizers.

Of 63 different fartili er combinations which were tried out during the six years of the tests, the one which are the best and most consistent results was an 0-1d-12 formula (no nitrogen, 1) parts phase hor sound largerty potassion) applied at the rate of 40 from a an area and supplemented with 50 pounds of side-dressed codium nitrate. This treatment has die a rotation system including legrouss increased the yield of markstable ears 41.60 are cent.

Under some conditions the $\rightarrow 16 - 13$ analysis cay be reduced with advantage to 0-16-6, but the recent of nitrata see as a side-dressing should not be changed, it was brought out in the tests.

Other recommendations growing at all the tests were: (1) Use a rotation including legal is in order to otherwise resolution mass from a mass from a matching fertilizers, (2). Where nitrogen is smitted, or all at 30 pounds of an order (without altregen) an acre, an 0-10-6 combination will are bothly prove superior to (-16-3. (4) Mineral certilizers applied without nitrogen should contain not more than 0 per next potash. (5) An application of 401 pounds of an indexety fertilizer plus side-dressed sodium nitrate ab the rate of 60 pounds an acre may prove profitable under some conditions. (6) Ditrate of soda should be applied 30 to 60 days after the form is planted.

-1/-

Illinois A Leading State In Meeting Of I. Producers

Illinois will be well represented at the twenty-sixth annual convention of the Northern Nut Growers' Association at Rockport, Ind., Soutencer 9 and lo with hix people on the program, it is sancounced by Dr. A. S. Colby, chief in small fruit all the at the College of Agriculture, University of Plantic.

Heading the convention will be President Frank M. Frey, of Chicago, the will open the program September 9. Development of the part incoment in Illinois will as discussed by L. B. Sawyer, forestry extension specialist at the college, during the evening session of the first day. During the marning session of the second day Dr. Colly will outline the next steps to be taken to nut exceed at Illinois. He will be followed by R. B. Enlicott, of Villa Endge, who will discuss electricity ording in southern Terms 19.

A.M. Whitford, of Folina, will tell the deleasting a certaing about air lating nut tree propagation during the afternoon service of the accordance and follows. Shattic, will discuss the new Kaskaskia River persons and blooms.



Flanty Of Feed Prichtens Dairy Prospers In State

With plenty of good roughages and grains being produced in Illingia this year, dairymen can forego the skingy rations of drouth times and again feed their rows or e profitable and better balanced a binations, says C. S. Whose dring hasbandry specialist at the College of Arricalture. This entry of Illingis.

ist at the College of Agriculture, University of Illineis.

Those who call out their lowest areducing cows and use the chentiful feed as a basis for adaquate rations will probably be able to make a reasonable gradual faring the coming winter. With mile cow numbers now door cent less than the record mumber a year ago, the six-year expansion is the national dairy hards has been ended. I attimed close culling of lawer producing rows and the faciling of better rations will further strengthen the dairyments position, it is believed.

Not since 10.7 has the state had a group as large as the indicated harvest of more than four million tens for 1933, according to reacrts of A. J. Surratt, state agricultural statistician, Springfield. Feed proins this year are more than double the 1934 crop, and the corn crop, estimated at 74 per cent of normal on August 1, may be nearly twice as large or the 1934 crop. Southern prospects are good, and the crop is in the making on the largest spread in the history of Illinois.

Considering the resphans only well grains aline by harvested and the prospects for those not yet satured, there seems to be no reason for feeding cows inadequate rations this winter, specially if the corn arm makes good. Rhode said.

Equal parts of ground core, who sate along with a liberal allowance of good legume hay as the only rought. A makes on excellent rates, for mula cows. If styleans are available, they will furnish the assist protein connectator. Where both logues hay and plenty of silage or good failer are available, a satisfactory grain extron may consist of a parts ground corn-one meal. I parts ground oats and I part ground soubsans.

m]/-

Bayworms Arrivs To Menoes Shade Trees In Illinois

Newest arrivals array insent enemies of Illin is trees this year are backers of many evergreen tread as well as on some of the box offices, soft maples, lindens and willows, it is reported by W. P. Flint, chief entomologist for the College of Agric liter, University of Illinois and the Illinois State Natural History Survey.

The wirms appear during August in little mayosole occoons hanging from the leaves. They are not actual capacine but little houses for the worms and give the house worm its name, Flint amplained.

Worms are numerous this surror and are attaching both decideous and or ogreen trees. However, they are more injurious to evergreens since one stripting of such these ails them.

While appays should have been opplied sorbier in the summer just after the worms were hatched, many of the pests will be killed if a lead and line or or as thoroughly applied during August. The most satisfactory mixture is under of 1. Cands of lead arsenate, 2 populs of lime and 50 gallons of water. The lime is set times a ladd to prevent burning of the foliage by water-soluble or sectors to the spray.

During the coming winter forter control my selectioned symboling the began

off the smaller trees. The lowe should be burned,

The ideal time to oprop for boswords is just often they have much d. In southern Illinois they begin to notch about June 1, in the central art of the state June 10 is about the date, while June 10 is the batching date in the northern sections.

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volum NYIII

August 1935.

Number 35

F or Westing Or Cattlemen Its Expected At U. of I.

Record the impossible cornerous in the form of cattle this fall and winter, a record crewi is expected to attend the eighth and unit meeting of Illinois beef cattle feeters 3 out onto 1 and 1 the College of Agriculture, University of Illinois, said H. P. Burk, head of the manual unboner approximant at the college.

Puri, head of the remind number of the remindence of agraculture, desired of the remindence of the remindence of the college.

Visitors at this party model with law the opportunity to inspect more than the last accordance of the last seven fed exactly the same way, They stated. The client chief of interest will be eight lots of corring at the wind have been furnitured eight information during the last seven months in the value of protein concentration black pasture, corn silage and other feeds in proceeding the last seven positive accordance to the positive positive.

And resist of inverse this year will be the experiments which have indirected that a serie of cold common of stored and field will produce as many pounds of
rate is a store is the core of cold, core. This experiment has taken on added significered because of the late core of the prospects
for a reiterable amount of cold core of the state and the prospects
for a reiterable amount of cold core of allable, cattle feeders are using to good
twent are various of final instances to a considerable of the armignitude farms,

Intil the rest of the rest of the second control of the agricultural college.

The second of the agricultural college. The formula of the second of the animals gaining as rapidly to provide an order of the second of the new corn this fall.

Among the combinations of the good results are oats and wheat, oats, wheat

Among a combination showing good results are oats and wheat, oats, wheat mo burla, ir outs, wheat corn altern come is available. These grain rations along ith reference and have produced out wins and family a commission of Reeping cattle gaining until more corn savailable, Pobbins cout i.

Some operators are buying corn at 90 cents a bushel to continue the feeding tropper which they storted in the spring. In cases where cattle fed in this manner have been sold, they have paid a good return on the feed and risk which was involved in the ventur.

Cattle forders realism making plans to conserve all the roughage available for not winter's fording, since last winter they found that roughage is an economical ford for wintering cattle as well as a good supplement to grain rations where the nimils up to jour forteness for market.

nimils use being fattened for market.

The sile is the ted to be the most popular place for the storage of corn today are not over as well as many other types of roughages, Robbins stated. Pit siles are classificated at a relatively small cost to the core of the entry mannt of roughage crops expected this year.



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Value of proper since synaplased and mark ring of gig to produced by several couthorn Illinois produced in it illustrated by no former for that entern who has received producer returns and higher profits from his flock tell some returns and higher profits from his flock tell some returns and higher profits from his flock tell some returns to many of is neighbor, it is a cartal by N. H. Al., and try out-maken specialist at the College f Agricolture, University of Illin is,

Browner to fill on minaged in the color high creduction of guality been, and do not grain the generality of the color field and marketed from on the grade rather than so if the fill of the color to the time caring the same received them to be in the color of the co

eis" rries of 1" and 1.

First of as a second some of a state of the state of the second of the second second of the second second of the s was held at a low level. The house of his transfer of the return were intertile, and spailing was held at a low level. The house of his transfer of his house will prove the relational water. Unter this run grant the flow of interesting a second his not over he.

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Appropriately a few positions of the few positions of the series lantung of resistant vari ti s.

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Figure 1 wilt is oblim convict will so a, but more in the sol also as a little to live in the sol also as a little to live in the sol also by the trung lanting of the terminal law in the little of the climation, be specify to trung lanting of the terminal law at one law tyred the listens. Some monthly the problem of protocology devices in the limit of the listens of the contraction of the planting of the listens of the lis omatous on eleven around is amella

In ground the said obtailer them is entained, but the met of is not

(ractionals and a commy field cord filens.



Broard Hig True Sats New High Mark For - 1 Mimbers

The new cords of this price of \$1.10 to round for fit mark to beat, which we a recently sat blished by the Illinois well bry's sign of the new all-time high in telliputements of the inferior brye and sinks of the attack also be encolled in \$40 pig alaborable work under any evision of their county form the translation of the continuous of the College of Agric album, Usiv rait, of Illinois.

The holder of the new world record on fet long orio a id Willard Brittin, a 16-ye ar-old M-N club tamber of the eman, I make no only. It was attablished during and of the night pool to home move at the real Illinois Stade Fair when Willard's 17 - pound Berkshire borrows as sold to a control unlessing as for a total of \$127.5.

All of Willerite 2,00% is blow jim obtain now the in Illinois are thing train in matern and engrow is methods of broading, it ding and managing apparatus direction of their county form advisors, lead to term and the extension approach of the arrival turn college, but the new price of \$1.15 to could be extend to the new for some time.

Low them we have an a to the character \$1.7. From been alreed in his hand, no had invested & Flow it in a pure by i Ferhands gilt. With the side a start he hopes to build no appropriate him out his own one and his life on all form. With the remainder of the money he into a to remainder of the order to get on the sone of the conjuction of the term.

Fr vious to the old of Wallers' agine t \$1.10 agound, the bost

mark was \$1.00 and buf retreat it was 77 cents.

Willard wile be a busine in the Wileinmoveral bigh school this full and is now in his third year of 4-b cirb worl.

He had two brothers, our his father owns and forms like cree of land, up ciulizing in Berhalin language and careled deriford cutals.

The record or entangenche and the restaure of the set of in the self-chub show in which expressions by 1, it of the present girls' well as above of the statement of for a plane of the \mathfrak{sl}^* , the integration map \mathfrak{sl} .

Tor to Juice Jo. T. Be J and In De Hom Hitchen

Form to juice, the increasingly popular health fring, may we made in the east witchen this fall may civily since the Illinois temate crop is showing a fairly good yield of desirable fruit, said Gleman A. Il near am, facile entempion specialist at the follows of Agriculture. University of Illinois.

The juice is extracted by tro-cooking the tem to a only until soit to temperature of from 170 to 170 degrees, or olightly below beiling it of the most available. The hot, softend them to a contain the contains a contain soit of the contains a contain the contains a contain the contains and the solutions. Skins should be removed before the tempto a tre tropic.

The juice should be reheated once of the it is been out turing a dicyc, poured into sterilized containers and then a said indicated a fixed with the policy of such all the properties. Salt may be added if their limits the roy ation of such all the no tests to full to the mart. It is more desirable to add their second part before the little is used.

Coly a small mount of tam the should be work does at a wise, as a fift of the codes tomatees now the juice and like order to take on the processing, and a second to do will extract the first of swell as the health-giving vitains. If if a reliable the first bookless to both the first contract to the first co

After the tempto juice are been a un 5, it should be believed as a fine cost, term slace.

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Timely Notes for Farm Advisers and others from the Agmuitural College, Experiment Station, and Extension Service

Volume XVIII

Sertember 4, 10-5

Mumber 36

Record Scybern cray Frings Danger Of Loit-Fork Loss

A record over of scylering in It incis this peer will meen heavy losses from soft park if for the ottempt to use the whole scylesing for fottening hogs, recording to a warning by Prof. Wheter India, associate chief in means at the Gallupe of Larie culture, University of Illinois.

While whole sopherns course cost, Eleby fort that is of inferior mark t quality, sophern ail to I used to a sucrism at for corn in hog rations will make firm pork, Frof. Full soint a cut. At the same time sophern oil meet will produce frater and more conscious frame than con to obtained with whole beans.

It is suggested that show no trade any whole be no which they would is a to hogs for sophern or and any than a curing a valuable of sort part losses.

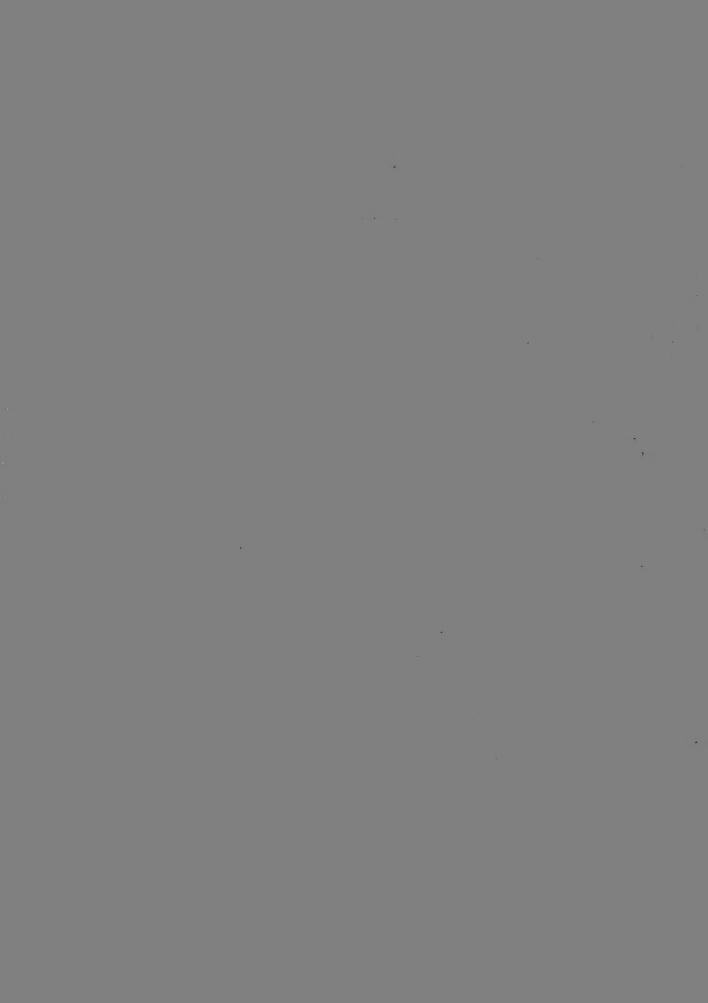
It is to the adventage and profit of formers to do everything possible to avoid soft pork, since neither shippers, feeders, most profiters, experters nor consumers want such meet. Frof. Italiand. The east permanent roblem may become so serious that "soft" hogs will have to be alcorimented against. A few lords of such bogs from any one shipping point would be audition not to give that to reitery a reputation for in rior pork, with the subsement drags roof price penalties to programs.

An added induced it or using scyle in til me i instead of their soybears is the fact that it arounds just as good gains as tankage and linesed mest and at present prices is more adminished than these two supplements, Prof. Bull said. Experiments at the U. of I. College of Agriculture have shown that 14 pounds of soybear oil meal and four counds of alfalia most are equal to the standard corn belt supplement of eight pounds of tankage, four counds of limited as all and four counds of limits meals. At present prices the laboration meal would be the man communical ford.

Oth receptor, ats in Illinois, Indi no and Chic have demonstrated that some permitted made as a large error archive to the fore received and the southern short as a first order of the fold and makes first order high quality, Fraf. Bull report to

Corm and coybern il meal red at the rate of me bushel of corm and mine pounds of soybern all meal with liable meal makes a good ration for rattening home. However, a mineral mixture chould always to fed ah a soybern all meal is used in actions. A good hame-wade and can be mixed from a parts ground limestane, in action steamed beneaved and learn alt.

Cooperation among farmers in avoiding the feeding of whole seyborns will protect their shirring eqint against getting a negatation for sold ites, from Full points double. At an a at marks torries of lawborns and anyhern all more in a farm work or be produced quicker and chears with a 1% resumble of sold for a sold ite more, the resultation of the co. Unity for a roducing good hose will is much to the profitableness of future presentions, he orid.



12-Year-Old Soil Plan Baying Dividends On Fulton Farm

Twelve years of rebuilding and maintaining the fertility of his 250-acre for through the use of limestone and legumes are now paying dividends in the form of feed, better belonced rotations and reduced costs of production for L. F. Randolph, of Fulton counts, it is reported by C. M. Linsley, soils extension specialist of the College of Agriculture, University of Illinois. Randolph has limed about 200 of the acres of his form, and the rest probably will be limed within the next two years.

This year 20 acres of sweet clover on limed land pastured 25 head of cattle, 20 sows with L5 igs and six hors s. The pasture could have carried almost double

that number of livestock, Linsley believes.

This same of acres, once considered the poorest land on the farm, furnished le loads of sweet clover hay and plenty of pasture for 25 cattle and six horses during the drouth lest cammer. The clover came up as a volunteer crop last spring and took a poor crop of cats. Its excellent growth in spite of the drouth was possible because limestone had been used to sweeten the soil, Randolph believes.

Another roof of the value of limestone is shown by the fact that corn yielded 45 to 15 bushels to the ore on limed land at Randolph's farm last year, Linsley stated.

"Nothing can best lime and sweet clover for putting life in the soil," declares this Fulton count; former. He has found limestone profitable, since it has enabled him to maintain soil fertility and obtain better than average hay and pasture crops from legumes.

During the past two years shifts from surplus grain crops to alfalfa and clover have been much easier for Randolph because much of his soil is limed and grows

these soil-building cross, redily, said Linsley.

Rendelch's form is an example of hundreds of Illinois farms on which soil fertility and carning ower have been maintained and increased by the use of limestone. Many farmers have found that acid soil must be limed and clovers grown regularly in the rot-tion if the land is to continue earning enough to support the farm family.

Where the common practice of grain cropping is followed, fertility of the still will be dericted and crop yields will decrease year by year. Eventually a stage of sail de letion may be reached when the income from poor crops will not furnish a living for the farmer. When concations get this bad, it will be too late to make any investments in soil improvement. Dinsley declared. Many Illinois farms are not far from this stage new, he said. The longer liming is postponed, the more difficult it will be to fin acc this soil improvement work.

-Man

Good Feed Supply Ends Need For Late Alfalfa Cutting

With sucplies of feed, especially good roughage, plentiful in Illinois this year, there is no necessity of injuring alfalfa stands by late cutting, declared J. J. Pieper, projuction specialist at the College of Agriculture, University of Illinois.

To avoid winter injury to their alfalfa, Illinois farmers should not cut hay crops later than six weeks before the first killing frost. For northern Illinois the average date for the lirst killing frost is about October 16, which means that alfalfa

should not be cut later than the first week of September.

In central sections of the state killing frosts occur a few days later,
ever gime bout October 18 to 19. They may be expected in the southern third of Illinois
about October 14. Frosts have killed vegetation in all of these sections during
September, occurring as early as September 14 in the northern and southern sections
and an September 16 in the central section. However, such early frosts are the exception, and most alfolia will be safe if not cut after the first week in September,
Figure 2 send.



Cort-Corn Posk unity Poiners To Memperson Sulas

Inscibilities of a large emount of soft corn in Illinois this fall never timed from is to preprintions for temporary times will and other emergency weams of some as such of the error as possible, according to the agricultural engineering decrease, laiversity of Illinois.

While corn is naking rapid growth, there is larger their frost will catch some of the arms before maturity, it is shown in resource about to J. J. Fieper chaps specialish at the college. The fence sile of the arms a land satisfactory way.

of preserving this soft corn for winter use.

Wost common among the temporary fince silon are those constructed of the formiliar racket, or slow, fince. Wove, wire racing is also used to some extent. The fance is set up in a circle of the desired director after the ground has been leveled for the base. The inside is lined with heavy building paper and filled to wishin about six inches of the top before the second section is fastened on top, said W. A. Foster, chief in rural architecture at the calles.

Diagrams and height are governed by the carecuty desired, although a height of not more than the diagram will assume greater atability. A silo of feet an diagram will hold approximately to tone of siloge, while a Wafort silo will hold about 46 tone. A contlate table of sizes are appeared as a well as inspructions for building fence siles and our silos are sometimes at the agricultural engineering department of the college.

This inform sion saws 5-t-ils for determining the size of eito meed d, leying out the ground, constructing the eilo. Filling it and preparing the conslage for better keeping.

ille a de Good Stor so For astra hupl Fs C& Loy

Since hay nows are already bulging with good legane hay, silos provibly well be pressed into the unusar I service of furnishing and ge space for much of the additional har orders being framed in Illinois this prox, and W. B. Nevens, associate chief in drive cattle feeding at the College of Agriculture, University of Illinois.

Controls to the perular arimon, made legume have make excellent eilage for introduced in the right way, Nevens declared. Alfalfs, sowherms and the various alovers, all of which are growing in abundance in the state this year.

can be made into pulniable, mutrutious escilage.

The only difficulty with legumes as silege as that they will develop a strong, undersant oder and become unpolitable of jut into the sile too green. This is caused by deterioration of the large amount of protein in such crops. This condition not only reduces the feeding value of the enablege but also is likely to tain the milk, since the oder will provide the antire turn. Some of the fact that is derried to the milk from the silege after by the cove.

Allowing the legume how to wilt and dry out enter it is cut will help erevent the unpleasent odor and taste. The surest method of preventing the development of these law ging qualities, however, is to mis fairly green form with the legumes wilf-and-half by weight or not less than one load of green form to two loads of legames. The additional sugar in the corn causes an ecia to form, thus preventing as a rior tion of the protein and the development of the bad caste and small, Meyens and being a

Another a thod which may be used where green come is not evailable is to mix plack strop or sugar beet molesses with the hey at the rate of 1 to 2 per a nt, or 2 to 4 rounds to the ton.

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Experiment Station, and Extension Service

Volume Wills

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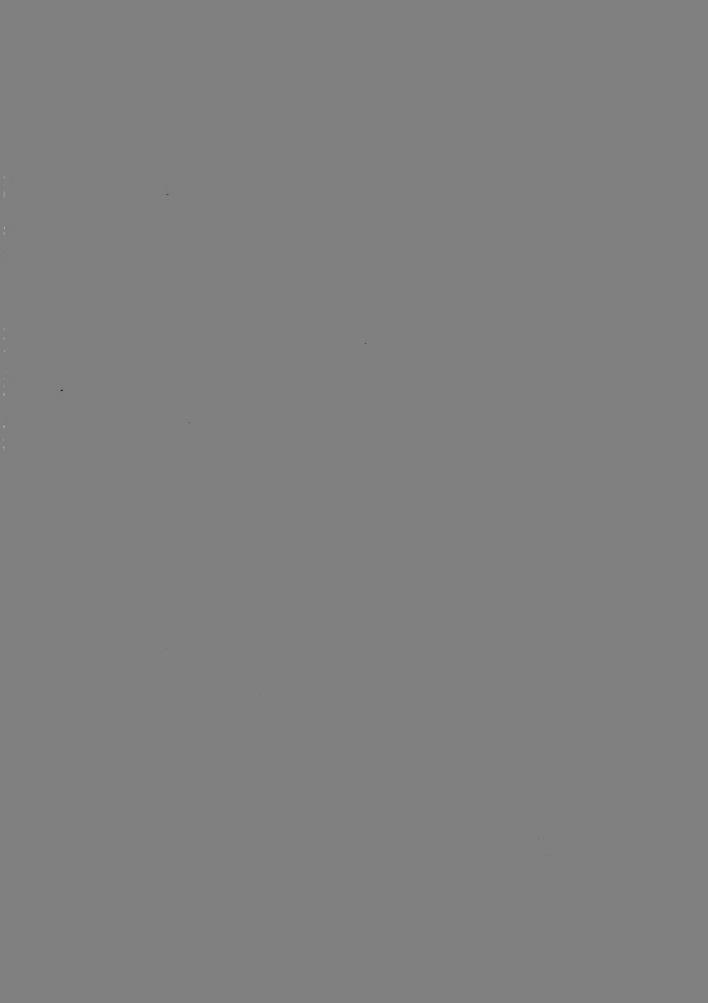
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11 From Mars Valuar - Exosion-Freventing Crop

importance in Illinois this year bett to J. J. in Sps, according to J. J. Pieper, crops Il asture as a feed saver and

r.ter wheat, barley and rye make excellent to mak layor in the southern section of the other grains without danger of inthe of the land of the same into the early winter. October into the early winter. October 1

1 -- t wall grains this year, Pileper said. ---- Parture mixtures which are 11 to 12 I grain. The grain will fornish i are swill become available later next the small grain next year with-

grain mext year with grain, Pieper declared, grain, Pieper declared, grain, Pieper declared, grain mext year with grain, Pieper declared, grain, grain, pieper declared, grain, The same of the same of the r, I lier, alsike end white clover in

remaining that new areas be planted in sub-, will help ind the soil and minimize the

loo of the addition of the part of the crop.

The liver is the crops on acre
The liver is the country or community com
The liver is the country or community com-

Title 11 1 1 2 Applying Limestone Lowers Cost

Here is in the strong and spreading limestone, such that is in the spreading limestone, such that is in the spreading limestone, such that is in the spreading limestone is moved by the spreading limestone, such that is believed by the limestone is moved by the spreading limestone is moved from the spreading limestone is moved that the spreading limestone is moved that the spreading limestone is moved to the crusher where it is pulverized that the spreading limestone is moved that the spreading limestone is the spread by operating the in the spreader as the truck is driven across i i representation of the trucks into represent the recks into represent the recks into the respective representations. By this method all of the

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Volume XVIII

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Murler 39

Milertone In Set In Streng C. Good Francis Letters

A dilestone in the simple of firming better a action set, a with the holding of a "go i far ing neutrins of North place Culture a Agriculture, initiary sity of Illin is, approximate last. H. I. M. Cule, hear of the tepartment of agriculture cultural community.

Ten grant of notions in the oblique! Farm bureas from manage ent service project were nominated and of him in advantable through attending the meeting. Sixty-three for are not as an analysis for a continuous three project services in a little to by Tuench. To find not a the generalized of himself in the tentiations and for erealized against an all the tentiations are for erealized as a gening accounts in

This is that esticting end that for erailmans are desing accounts in commercial with their solutions are asymmetric and and college. The form turbus effective sense must environ the counties are earlied, restricted as the live of its and the form the form of the members and the counties.

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The igh their common functional layer food of now well they are raining their farms as considered with their construction in the said they have been wided in analying to their on farms the rest as that have produce registable or office sums of a smiller trace.

The of the state line of the state line of the record seering has been a feverpoint of random good for an a Third so been failt to be the other than the part of the collectory of er crimental on a collector by the records which the cards of the collector was kept during the part of the collector of the collector was in the fact three land characters are considered.

The same dints of the recise and (1) plun as that not errow out a good field arm goment; (5) deep the hinds and admints of livestron that are well a dight to the farm, the former and to compate (3) making high yields of proces; (4) and we good returns from feel for a divest of, (2, and later couts low in respection to incore; (3) seek potent, for a chinery and livest of equipment to tell which is portion to incore; and (3) area to live; the couts low in to incore.

An my this All for one who have betoen only to me the team years—the project, the has former whose former and all seven of these Easters had an average and all not income at \$4,000 during each of the ten means. The mix for one whose form exhalled in six of this never forters and an average annual not income to \$2,000.

For a strong in first the advention or a line on average and last include of \$r, it these strong in first flot we exhad a verage made had included \$, l4; those atring in three, \$1,915, and those atring in all two lasters, \$1.5: In a which excelled only in any or last of the seventiant of had an ever so an all not income of only \$965 for each of the termy or.

Some forms not incling high in wraings at the product the one boilding of the productivity of a body-decletel call and gatting bip -grounding live to the established. With good forming protings there for each will be also to an extension a stable by in years to come.



Enough Control Will Be Aided By New Soil Studies

parted to the side of the state of acres of Illinois farm land is expected to the side the state of the state of the College of Agriculture, University of Illin is, to the side of the soil types to reinfall on different soil types.

Shallo it and for a go with sive soil types have been "planted" on the college farm as a tasis for the state. These include soils from as far south as

Mulican county, as far north a been a an as far west as Hancock county and from other charge within this general are.

Fig. easuring the an into a create run-off from these soils and the rate of water corolating for guidant, the investigators hope to secure information needed in the level cent of three a rective erosion control methods in the state. Findings in the revel went of one a rective erosion control methods in the state. Findings under in the cill of one is any entropy than the remark than 4 million acres of Illinear and land that are and the estimative erosion and should never be farmed, for that a cillion of attends on a far and more than 19 million acres where erosion as trained as a control of the land.

Color of the land, and the color of the land of the reductivity of the land.

Color of the land of the color of the land of the color of the land of the color of the land.

The color of the color of the color of the land of the color of the land of the color of the land.

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s.t-1 rearris total recipitation. Philipposal of the water falling on the sarings and the latest was of been in operation long enough for any definite and same to the real it is hoped that within a relatively short time as a rate into sate as a relatively short time.

Tator As Well As Feen Needed For Production Of Eggs

It takes natures well as feed to produce eggs, according to H. H. Alp, altrogrammes and appropriate that the College of Agriculture, University of Illinois. This are that since here he wery liftle water storage capacity, water must be supplier at all times if the flock wher expects to take advantage of higher egg prices

As reximately nine pounds of water are required for each dozen eggs laid, according to ruc.r - 1 - ity water untake of 60 White Leghorn pullets at the college

ever a Price of four - KS.

Arother -ignizing that brought out by the trial's was that egg production in we set allost in breat preportion to increased consumption of water. During the first real the heas draw approximately 2.16 pounds of water bach. Egg production ining the same were everaged 2.99 eggs to the hen.

Dring the 1 st week of the trials water consumption averaged 3.08 pounds, r to the or control the finst week's average. Egg production during the last The first week's production. The first week's production. vill mile of est the laying efficiency of hers, Alp stated.



Last Frifits in four It Feeders is@ So nd Tethele

Providence the boundary rate of the first the till the foodpare of the administration of the state of the following the following the first the state of the following the first the first the direction of the first the following the first the following the first the

wan at the Coll ge of Almin Story, Through the Long to the Sate has reduced give northly a disjoint on a sold shoughter of 19 and the individual that has reduced give northly northly and the first of the continuous story of the first of the continuous story of the five northly and the five northly of the continuous story of the continuous s

all their function inclinate the lettern Lettern Labor across multipartie in they are bought fruit on the labor term. They shall they are less in transit from one of the labor, the labor one incompation of another they arrive. The sequently the table of the reflection of the labor is a fairness and the transition of the labor.

Filatoble and a large or in process, in the instance of a small assemblated solt is an interpretable or the place of the process and the parts reach the face. They shall be closed a large of a pertent, since a up of the large, weakened by the true, a growth or both a lease as been process so they as they are nameled carefully.

Ole m. replayenticated shalters of a fift tent calculity to in section labs without promoner will restricted a scaling flact gaining fluct. The shelfel houses should on this tention in the contact labs will not a section in the open during only, and reather. Finity and on any of towards as evilled as all times. The looks should be armanafern a galactic for a againges to a montagaid

The limbs shounded cransferring and will simply applying a to a montraged feeds to avoid leases from dispersing aidtorton as. Even often the lembs are on real feed, their to take troble resultings will a method of the materiagainst over-cating of contentrates, and religit from these religions are feeding of limbs is avoidable in our alor Walledge feeding leads on Illinois Forms, " available at the callust.

- 37-

Butter I rts Show Fored Depline Bland Lat Suring

A religibling off in coming the term of the personal increased demonstrate and until and decreased conservation to be an increased from the College of Agric lumb. University of Inlands, from the U. S. Fromos of Agricultural Engages. No New Call and butter has been accounted since Agric it is stated in the recent. Engagen in order to be a conservated since in July 1 this poor as one pared to 1,407,000 in June 100 2,000, 100 in Jay.

While imports have been decreasing, denotic or motion has been in more fune butter and extrem this gear amounted to approximately 10% million course on meaned to los cillion last pear. Consemption, he every decreased from 14, million points in June, 1984, to 155 million in the sale mount this year, they are no out

Under the February Lemies and Mero York or was notitions, is contains a state the 1d cent in out tariff on each court of belief by glat out the first and Lemin or out that a margin of profit. However, as the sirend totacks Mero form and Lemin original decreased, the margin disable and and imports declined.

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Volum: XVIII

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Humber 3

Bur-Corn Calogo Best Way to Sout Jorn Lit By Frost

Any of the 71 million were of Illian is four one which may be cought by threatened front dum of this. If our steekes stillized by being energy, buck and sell, and made into a record sell, and made into a record sell, to differ the College of Agriculture, University of Illian is.

There have been six and earn pours since 10 c, and the college has worked out the best methods of salv sine the grain har running extensive feeding tests.

Corn that has been into a before a turity newally is too high in meisture content to keep if placed in a crip. In tact, and is too high for cribbing can entally, That at take. In the harm years as 1924 have shown that soft own reverse contains less than years cent anisture,

Running the charge condithrough the chailese cutter and cutting it in a calc helps to conserve much of the 10-d value of the immature grain, conserve a ctorage space, lightens the feeding wors during the minter and is the cost a tief eterm may of curing soft corn, recording to tests may set the callage.

Puring the trate of the state form hadded in this appropriet of punish of gain on a hard of state, The hour at yord of this we are writed of all abundagein to the core where the life orm was stored in the chook and field from the chook anneeded during the wint r.

When the corn was above a soluted in the field and anoken so no del, an earmade 13F pounds a in on both at me. Phatuning errord to be the poor-objected with
each acre of soft corn producing a grin of only 17 grands where the steers were
allowed to run in the field of a total corn countries the stelks or second.

allowed to make the field and set the norm inclustive stelles or ground.

Now of the methods that dishowed grows and to with hoge, although hims fellow—
ing stoors fod showed corn did the lest, meeting about 8 counds tot 1 gain for each
acrouf sorn fed in this wencer.

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State Jent at In Jurn 418 Faultry Judging On Cot. 2

One hammer doof the best poligies from single the specific for boys and girls who are enrolled in self-circumal pulling regists will at the the policy attachange inship judging noncre in these two lines of work in a contect to be a lifet the College of Agriculture, University of Illineia, Oct ber and is emmounted by 6. I. Pilehard, boys! alub specialist.

This year the poultry judg s will be rearn itself to died ighte has a of four specimens even, Pilenard soid. Four classes or the end of an include of perfection rule and the other four coording to we are took now living. In the which may be used will include Parrod Flymout. Rocks, To be Jeland Here, Weit Mysu-dottes and White Loshams.

The corn judges will be required to these terms observe it corn consistings of four 16-ear samples much. The aleas a will include two completes the fitter transpelled form and one cornels of ability those whit carn.



Tests Show Sale Methods Of Meeting Spray Tolerance

1 r - crop f auxles to be moved in Illinois this fall and lower sproprising to branch refront, from a can protect themselves by following successful n to a form new I worked out in experiments by the College of Agriculture,

University of Illin is, a proint to fruit specialists of the institution.

1. At 1 rans was been added by law to .018 grains to each pound of fruit bring 1 . The role of 1 rans remains at .01 grains. If the lead tolerance is met the wrenit to 1 ranse places invariably will be met also, it is stated by W. A. Ruth,

chi t in .or. leithle hy iches, and K. J. Kadow, associate pathologist.

The teleruness of leith the government must be met before the apples can be a ld. Stipments which is not meet the specifications are liable to seizure. Be-

sproporties ring from from the total report the market.

Sing the tile to the first inverse are faced with the problem of removing the single ring total ring to the first inverse the fruit. The process consists in washing the last it ring to the first inverse the side of the last inverse to the last inverse t on oil. their officient, and from may be caused by too high a concentration of col, to one solution, and an exposure of the apples to the solution, Ruth

Veriety and a matrice of the apples also may influence the injury. Apples pinked from tirely and liver more insitive to the treatment. The safest procedure is to run tests with the different vari-ties of fruit and vary the methods of washing

will de injury in reduced to the smallest possible degree.

Anis colutions for the form should be made up with about la per cent actual acia and half the terrester and thy above 100 degrees fabrenheit. Acid injury shows

calyx end of the apple.

up in minute or compared to a calve end of the apple.

Cilia in the careful the lack of thorough rinsing after the apples

ave been realed in a fire illinge. Such injury as indicated by a round, burned area

at the lateral and a mattines or acking similar to that caused by acid.

It is again it to allow a sample of the apples before washing to deter
min tentatively the armst of the lation needed. The apples should be analyzed

and the rest are is down to government specifications.

efter the resting to a sure the resting is down to government specifications.

Intuited information on was ingland testing applies is available from the continuit des artment et the sellege,

-- M---

Now-Type Conton Eases The School Clothes Problem

Cotton fabric that many anti-crease qualities and resemble wool to the extent that they may be substituted satisfactorily in many cases are now available to simplify the winter select at thing problem for many Illinois mothers, according to Miss Edn. P. Bray, clothing autension specialist at the College of Agriculture, University of Illinois.

With the elevelopments cotton is destined to become more popular as a fabric for which clothing, since it possesses many other qualities, both from the economic ni omfort stanircines, which adapt it to the school child's needs, Miss Gray believes.

Information on the buying and construction of school and play clothing is vallable at the home conomics department of the college. In addition, three recent i.S.D.A. publications, No. 52, 54 and 80, describing the construction of suits for boys, for girls and play suits, are available at a small cost at Washington, D. C.



Ten-Year Records Fix Value of Good Farming Methods

A new prime the common burners of skin, management methods as a result of the poars of records which Illin in formers have by the the face corresponding management convice project of the College of Agriculture, University of Illinois, according to Prof. M. L. Lash rund the descriptions of agricultured according

The figure at the price top, or the value of good form recogences, tay be a surprise to those was have and rectinated the worth of good crop yields, livestock efficiency and other recommended practices in autographics form cornless and proposition general form processity. Prof. Morner pointed but.

From the farm bureou-farm wants of its province project form the books for the new price tag. Fifty-seven of their farmers occasied the seme forms during the ten pears and otherwise operated their land so that it was pessible to make direct comparisons between them.

Ten of these 17 three node more ranked improvements in their farm management methods then others during that a person of the architet. However, during 15.7, 1500 and 1927, the first three correct the product, before the improved fare management began to make itself felt, a section forms and by a new region model income of \$1,195 leads than the every for the whole 57 ferce.

During 1986, 1 10 and 1994, the 1 lift times years in the ten-year period, each of these ten devices on which the same place tent the deep improve a surround not income of Stephens, then the deep rage for the events of the period.

These formers increment their position, Prof. Mocher englained, by using their records and as much to find out her will to a more running their forme no compared with other coop rating formers. They also applied practice a to tend been proved in the records to be provided to mental a forms of a similar type to tooling.

proved in the records to be proditable on other forms of a similar type to tockro.

Thus in the years these formers, we a grown, advanced from a josition for behind the average for all forms in the region to all sites a fill she is a the average.

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Full Fratival To Bu plane Waters lin Feme of Chati

Illinois! from the witters loss that will be pro-tessed in the first annual fall vetermelon festival at Fevence, Sect ober 15 to at, according to 3.4. See ve, vegetable gardening at major openialist at the Gallege of Agricultume, University of Illinois.

Some of the state of figure 2 colone will be "color rate" at this above. The Cubon Queer, recently introduced oute Illinois by about acion services of the agree cultural College, will be a factor a variety.

The festival, expervised by the limboundley Asternation Graverst Accordation, is the first of its kind in and abots sell was originated to improve the relation rewing industry in Illinois, on and region which produces a madelly constituted by a few of fruit.

Molon growers managing the festival plan to ampeal not only to the passival also to the appethes of disting aclas Funcions, for the estate. They appear to a log-post of their finest melong into parters to be given to visit rules of eller and again quality of their product.

Variation of melons which will be a displacewill be to the behavior powhich is gaining repidly in popularing in the state, the Theorem and Whiching Tweet.

Variation such as Dixio Bella, Tom Watten and Whiching Tweet.

Another feature of this colorful slow will be the cross in the two long queen. The queen-to-se and her two ladies-in-labelings will be that the first and smooth accordance to the first and announced haring to feativel.

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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Obtober 2, 1935

Number 40

Erd ion Problem On Three Fronts

hers working to check soil losses on more than 19

a are attacking the problem from three different

rosion extension specialist coordinator at the

l nois. These are: mechanical control, vege
cuding good management.

des properly constructed terraces, gully control

Debraces, carefully maintained, help to prevent sheet
gull-s are already formed, check dams and other struc
ca si soil to be deposited rather than carried away,

here to the o water, allowing much of it to be absorbed of and erosion. Such furrows are particularly adapted

ve ve control methods, such cover crops as wheat, rye,
ective in controlling erosion. Experiments have
is lost from fields growing good stands of cover
grate Permanent vegetation, where it is adaptent means of preventing soil washing. Alfalfa
ps for erosion control, Buckardt said. Where the
ee-are superior to grass and hay crops.

ee are superior to grass and may crops.

Lase of eroston control, crop rotations, controlled

equal practices are considered the most important.

egumes increase the organic matter content, thus

as mg. Controlled grazing prevents the surface from being

tion, while the use of special practices such as contour

meet special problems on the individual farms or fields.

college which contain valuable information on various

to the a mimeographed leaflet. "Grasses and Legumes for

c ude a mimeographed leaflet, "Grasses and Legumes for no ement" and Circular No. 290, "Saving Soil by Use of Mangum

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winter Oat Varieties Not Adapted To State

ro a fons, Illinois farmers should beware of the so-called winter varning by J. C. Hackleman, crops extension specialist at the niversity of Illinois. Winter-hardy varieties of oats to the central and northern parts of the state and are quessouthern part, he said.



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culture. i. t. ir ; - up ti ur-ur weeds, many farmers i. t. ir ; - up . true or-noodboos. Orby - this cobserver - this is a company of the company. Susmagnetic to with in a

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t rage Prolongs Benefits From Good Fall Garden Crops

cash in on the maga better crop of fall vegetables in evidence in the year is the store them where they will keep for winter use, said ardening extension specialist at the College of Agriculture, i.e. Perty of stored vegetables will help save money on living the article to winter meals.

Initiation corrots, beets, turnips, rutabagas, celeriac and winter and the consequently amage from freezing, rotting or drying out. Consequently a d 32 degrees and in a damp atmosphere. Such vegetables are the cellar or in sunken and covered

First telegraph and salsify, not being subject to freezing, can be rich with the west tat little or no precaution is needed to protect

h s d tdoors by pulling them roots and all, and placing in low ridge, Somers explained. This ridge should be distributed that the soil layer being increased as colder weather region recabbages should be cut out of the crown, the distributed in the emoved and the heads stored on slatted shelves near the life to cellar. Onions and sweet potatoes should be stored y are thoroughly cured and before cold weather arrives.

I and somewhat are not subject to drying out, they may be a life to those used for sweet notatoes. However, they have the recommendation or the vine and removed by cutting the stem an inch or

d parsley can pest be stored by being taken up with a life in the cellar.

If the life is the costs and placed on the floor of the cellar.

If the life is the costs and placed on the floor of the cellar.

Such the life is the costs of doors.

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The Live to Kill Webworms Before Next Summer

e this fall to rid Illinois trees of the webworms which present time in the form of small, light green, fuzzy the control of the College of Agriculture, and the Illinois State Natural History Survey. To be effectively control of the control of th

f combating the webworm include spraying, hand picking or pruning burning with a torch. The cheapest and most effective method is shrubs about August 1. Two pounds of lead arsenate to 100 to the best spray. The worms now in evidence will soon find protection of the ground where they will spin flimsy cocoons and develop into the pre winter. About June 1 of next year a snow white moth will emerge tree to 300 eggs on the undersides of leaves. These eggs hatch in ars which spin a web over the leaves and feed together under this ally is enlarged as the caterpillars seek more leaves for food.

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Volume ANTII

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much lower in carbohydrates than other dry beans.

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Timely Notes for Farm Advisers and others from the Agricultural College,

Experiment Station, and Extension Service

Mumber 42

In Losses Of Livestock

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resistant to white snakeroot, while

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treatment for stricken animals. Consequently

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I. Wat Past 's Main Cause Of Oak Frees Dying

gr s being reported in Illinois this fall is the the transfer and the several successive dry seasons preceded to the transfer and the college of Agriculture, University of

s se sons and especially in 1934 the supply of moises of was no maintained and many of the feeding roots of the could be conditionally to the could be conditionally the college of limbs have died, causing conditions of the college of limbs have death of some trees.

nst drouth injury is to maintain the trees in a vigfizer and removal of all dead or diseased wood. While wood lots and forestry plantings, the dead and

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Good Sesson To Clear Up Mystery Of Apple Varieties

is the year when the mystery of the many unknown and unidentified ples growing in Illinois orchards could be cleared up if growers were is saiding in specimens for identification, according to R. L. McMunn, Livision, College of Agriculture, University of Illinois.

borne so well and so generally that the state's estimated crop

s of apples is almost three times the 1934 crop and considerably y ar average of 4,545,000 bushels, he pointed out. Some specimens i r dentification are from orchards planted as many as 30 or 35

r, there is something more than a sentimental reason why orchardists e identification of all varieties with which they are unfamiliar, " If 'n said. And les placed on the market must be labeled with the correct variety n me r s " riot unknown." With their trees bearing better than usual this year, regretation and another to identify hither to unknown varieties.

The state and the to identify hitherto unknown varieties.

The state tely many of the specimens being sent in for identification are mining in a local condition or with tags mixed, making accurate naming almost in the land.

A least in for identification should be mature, free from disease and in at injury and of average size and color for the variety. Each specimen should be t injury and of average size and color for the variety. Each specimen should be a restrict fly or placed in a sack with the number written on the sack. Tags to see a often are lost in shipment, since stems may fall off. Records

Fr rl rapped and tagged fruit should be packed in strong containers to transit. Cylinder-shaped bottle mailing cartons are satisfactory for formal and formal amounts any good, strong carton will be suitable,

" " mr saif. _u- ackage should be stamped "perishable."

A tite stating that identifications are desired and giving the name and - the i er should accompany the package. However the letter must be in-n l pe and stamped with the regular letter postage unless the package t, Tollege of Agriculture, University of Illinois.

Neglect Is Torse Cause Of Heavy Rural Fire Losses

regularized is largely responsible for an annual fire loss of approximately Illim is farms, or the equivalent of one farmstead each week in the year in line, Deliversity of Illinois. For the nation as a whole rural fire losses on Cun : , according to W. A. Foster, rural architect in the College of , , , on and 3,500 lives in 1934, he reported.

These tramendous losses can largely be prevented through careful and frequent Lecking on the danger points in buildings, cleaning up of premises and greater care r millin fires both in the stove and for such outside work as trash burning or heat-

r b to en vats.

Arms the fire hazards which may be found around the farmstead are dry , I lin heaves or piles of old papers or rags stacked in the corner of some . The should be inspected for possible cracks in the mortar, Foster said. large wires should not only be properly installed but also should be large enough beak current consumption of the circuit without overloading.

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Volum HVIII

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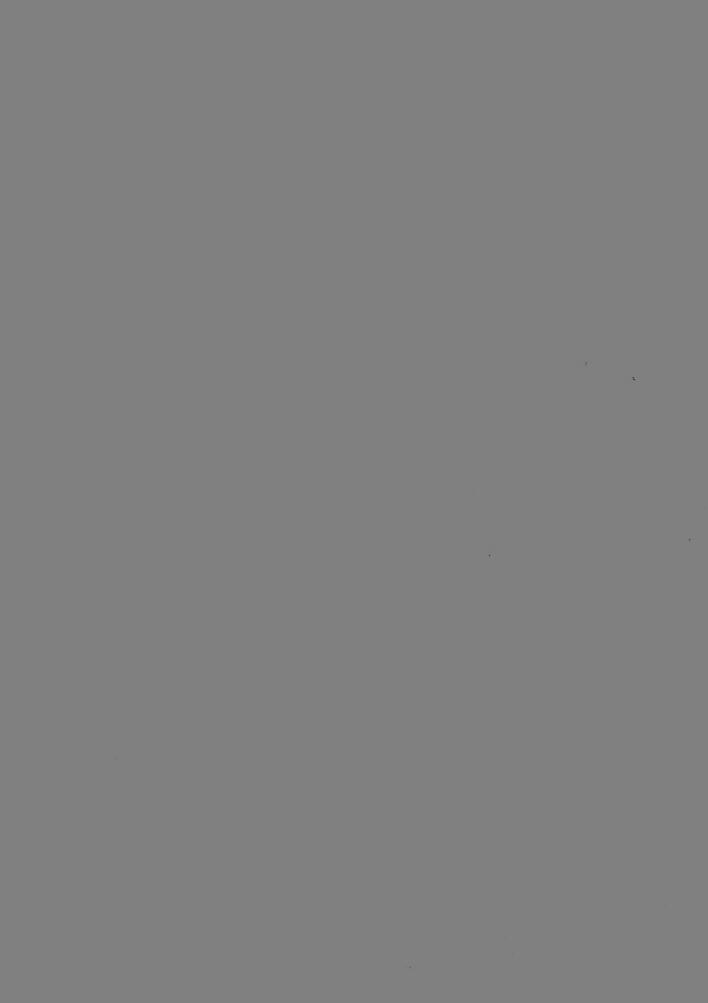
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Heredity Shown To Play Role in Animal Disease Fight

are and according to a new bulletin, "Inheritance of Resistance to Tantara Infection in Animals," just published by the experiment station of the leggent Agra I fure, University of Illinois.

iting 10 years! experiments involving more than 29,000 chickens, the in the viitten by Elmer Roberts, chief in animal genetics, and L. E. Card, chief in all try hastardry. Pullorum disease was chosen for the study because it lends it-

The residing the Laboratory methods necessary in such an experiment.

Doing the 10-year experiment selection was effective in producing strains of five values are more resistant to pullorum infection than was the unselected to the access in breeding up resistance to bacillary white diarrhea indicates in the confidence of developing strains of poultry or other farm animals which are tent to certain diseases. Thus this genetic method would become an important that the certain diseases. Thus this genetic method would become an important that the certain diseases are the certain diseases.

The comparison of poultry are the comparison of poultry are the certain animals are available for breeding purposes, the bulletin points out.

The experimental results were especially promising, since the selected that it is a notation of the disease through successive senerations. A susceptible made mated to a susceptible female produced chicks much the disease than were chicks from the same susceptible made mated to a rist that female. No significant difference was found between progeny of susceptible and a sistant females mated to the same resistant made. Nor was there any initiation of equired immunity among the birds, since the progeny of infected hens according to the disease than did the progeny of noninfected hens.

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Turkey Prospects Bright For Finished, Quality Birds

Turkey market prospects are favorable for Illinois growers who are careful to 1-1 mly birds of top finish during the approaching holidays, said H. H. Alp, the gentalist at the College of Agriculture, University of Illinois.

state its promise of a reasonably high holiday price.

Thever, this does not mean that turkeys with poor finish or other inferior and the expected to bring good prices, Alp said. While the decrease in promise is a selected by the U.S.D.A. as approximately 13 per cent below 1934, this is the selected sufficient to put a premium on inferior birds. On the other hand this is read that gether with improved business conditions may bring turkey raisers a better iday season for quality stock than they have enjoyed for several years, he added.

culling out turkeys of poor finish and marketing only top quality speciting the Thanksgiving season, growers will have at least three weeks in which the ring of ed birds up to top finish for the Christmas and New Year's season. Thus the label to get good prices for a large percentage of the turkeys sold.

Decreases in production have been principally among farm flocks rather than arge commercial flocks, according to the U.S.D.A. report, which states that rent fewer farmers in the south Atlantic and far western states reported

or over, while the decrease was nearly 10 per cent in the other sections.

H viest reductions in numbers of turkeys are reported from the main production at the chas Texas and North Dakota. Increases are reported for Minnesota, Oklamsy vania, northern New England and several of the southeastern states. Illi-



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lybric of notaristic, valish are or via the policity because to requestion and producing qualities, have now end in the total ends of the second ending varieties for subage purpless, as ording to results to be the date by the policy as associate third in this yeattle feeding at the fallers of Agriculture Uniter ity as Illinois.

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Another devests to all the hydrica was mean might proportion of grein. Fifty-two per control for total any neither of the hybrid on a shift of care consequents care a total a Yellow Bent secure is may be allowed the secure of the both of the both of the great of the period of the secure of the agree of the enough to be of particular significance. Towers states.

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Other methods of control include because out to sever four to the June and avoiding the rains of their one that he denies to the term of the action of the a

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Vilue XVIII

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etivities one of their meader this sell, with forces of the extension service, %. 3. Soil known tion a reist and 300 compa converting with farm, no to get termsons built and sutlets filling the form what r. Buth of the work is being corried on enough the working country if one rive in restrictions who have been set up now; the many countries of the state.

In 11 counties terrocous we himse either how to a surpheed or 1906ed by the associations and are being to rate by the associations and are being to rate by the associations in accordance with 770 cause and the conservation of every. The former and White counties are using large 10-foot blade to race as. Highternoof blue to rate as have been numbered as a 17 dec. It and Marchell-Futness counties, while the nor additional counties, the resulted in Macan, Alass, Jengalon, Audition, Jesuscan and Williamson counties, Hay recorded.

in Macon, Alacs, Sengelon, Applicable, Jacoben and Williamson counties, European fed.

These methines, eighter a midder lessed by the county we assessing, are large of rated by tractor cours. These areas secretains out their construction, while others have contracted with local dealers or forward to a which them. Formation whose places the terrales are built to another years to a who rip is to mean classed to neet operating expenses and the remarks in telephone of the contains of

In addition to the custiffs of a today count, assemble it is applicably and publicly owned machines are being used. These range is not define the terms a cachines suitable for herse or can treated nower up to large rock around.

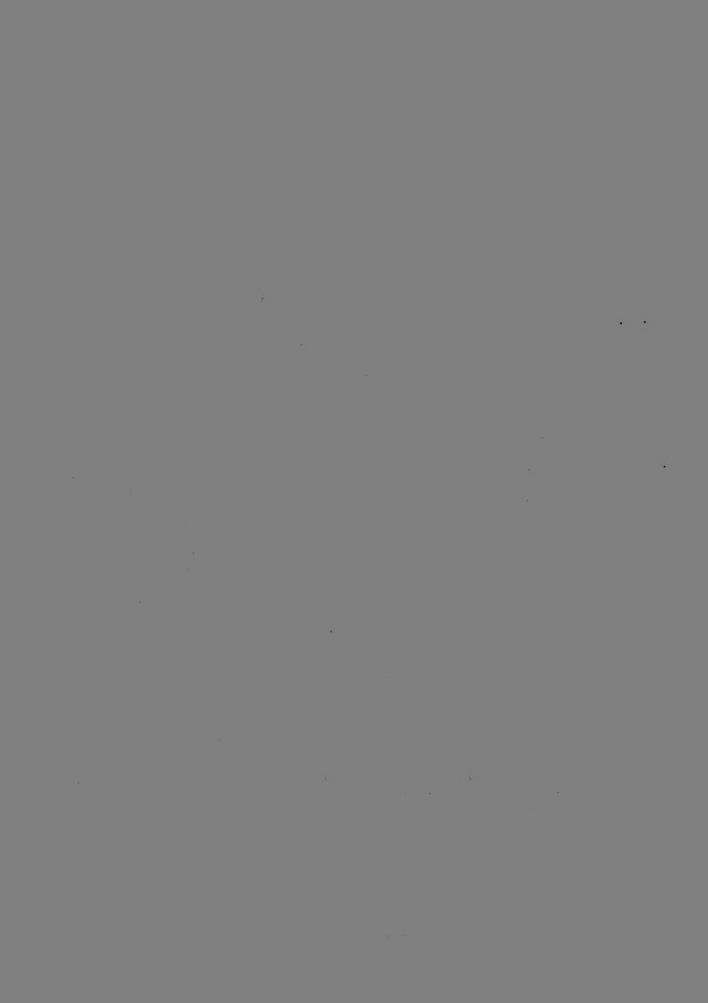
Tarroces are being united but one on and by angineers from the conservation coups and outlate ore being a natroct diby 333 men. Assistance has been given to see of these projects by the agricultural engineering describent of the otilion-

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Fifty-six countries are except into a timing to this work above a first part. The state has been divided into a distance which are also and are are a first and are into a first and are theregal and a natural beautiful and a state of the remaining We countries awarded as countries. The remaining We countries awarded as countries are about the two and the remaining we countries awarded as countries.



Mew High Reached In Bang's Disease Control In State

A new high for accomplishments under the Bang's disease eradication work in Illinois has been reached by the Coles County Dairy Herd Improvement Association with 100 per cent of the member herds entirely free from the disease, according to a report received by G. G. Rhode, dairy specialist at the College of Agriculture, University of Illinois, from Marvin Fairchild, tester for the association.

This is the first dairy bard inprovement association in Illinois to have all its hards area of Bang's discase, Rhode believes. The accomplishment marks one of the first big milestones on the eradication oragram that was started some 14 years ago by the animal pathology and hygiene division of the college.

During those years approximately (5,000 cows, 300 swine and 214 goats have been tested under the state-wide project which the college is corrying on to combat the disease. The malady not only has cost farmers of the state thousands of dollars but also has endangered public health. Humans may contract undulant fever by using products from Bang's infloted homes, said Dr. Robert Grahum, chief in animal mathology and hygiene.

Since the project was started, 111 of the 1,106 herds that have been tested have been freed of the disease. In the remaining herds testing and control measures are rapidly cutting down the losses. Conservative estimates are that Illinois farmers have saved \$45,000 through tests.

In 1934 the Federal covernment launched a more intensive erodication conpaign which, up to June 30, 1959, has been responsible for eliminating 10,714 reactors from Illinois herds. Under this clan farmers may sign up to have their hords tested and all reactors are removed. Farmers receive indemnities under the federal plan for all reacting cattle.

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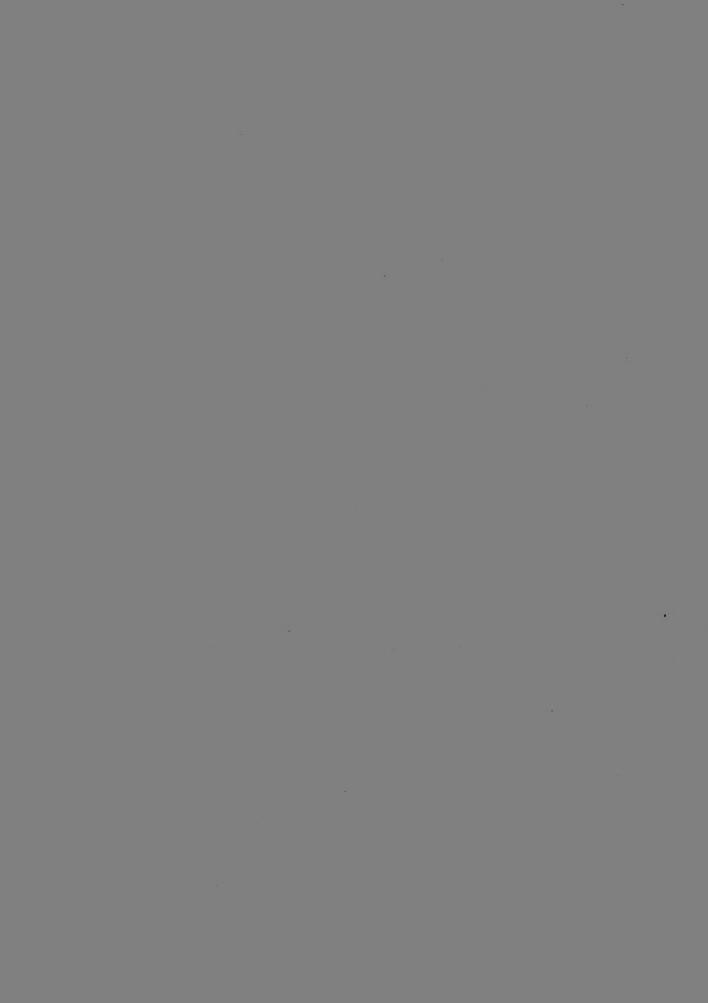
Home Improving Ficks Up With Improvement In Income

Substantial in revenent registered in form incomes during 1908 has been one of the main factors in the increased interest of large was a so hitchen improvement, according to Mirs Gladys J. Ward, home management extension specialist at the College of Agriculture, University of Illinoiss. Hearly 400 farm women have been reached during the series of "hitchen clinics" conducted in nine counties this year, Mirs Ward estimated. In all of these clinics the idea of making the hitchen more convenient without a large cash expenditure has not with enthusiasm. Counties in which clinics have been held are Adams, Schonolgh, DuPage, McLeans Colles, Marren, Masch, Iroquels and Knor.

In many cases a few home mode she was together with a rearrangement of the kitchen furniture and equipment was all that was necessary to make the room a convenient, cheerful where. One Mason county homemaker remorted that her kitchen has been greatly incroved by eight changes which cost a total of 17 cents alus the this spent by herself and husband. The changes included moving the range, moving the similability a drain board for the similability a built-in cob ban, putting a contition in the curboard, placing a silver drawer under the similability, adding a soon rack (boy) the sink and equipping an old pantry for wrap storage.

Ther systems were among the most needed of the more increasents lavelying a greater cash outlay than the minor changes, Mina which said. Only about I ter cent of the rural homes of the state have running water, according to a Fideral Housing Administration survey conducted during 1934. While the cost is complete sorter involves a maiderable escence over a short period of time, the installation if the space.

by units is one method of spreading the cost over a longer period



Home Ac punts Are Safe Guide In Increased Spending

rish ng at least a partial guide to many homemakers who are wondering are uncreasing incomes should be spent for food and other family Buth: 'Freeman, home accounts extension specialist at the College tweety of Illinois.

e of \$417.000,000 in 1935 farm income over that of 1934, as rebeau of agricultural economics, has lightened the job of mainstandards, but also has brought on the risk of unplanned spending,

c. ints furnish valuable budget planning data both for the account lies of similar size. Many women who have wondered whether d g too much of the family income for food or economizing to the re no now are using these "average family" records for comparisons.

1, ecords show that the average family in the \$500 to \$999 a ed a ro imately \$320, or 39 per cent, of the total income for food or sed, a smaller percentage of the total income went for food, as spent for food, Mrs. Freeman said. Only 22 per cent of d among account keepers having annual incomes of \$2,500 or

to the rought on by home accounts is that many farmers and smallred cash expenditures for food by producing garden, dairy and poultry
among some of the low-income groups as much as \$209 worth of the
tho ood used in 1934 was produced at home. However, families in
the bar ets also reduced cash food expenditures by raising food at home.
The results as these and many others derived from summaries of home accounts
taluate data on meal planning as well as the budgeting of clothing
other family expenditures.

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Less Lapensive Dalry Feeds Help Raise Net Incomes

ore an me Illinois farmer is making the most of the improved prices for one of adopting economical feeding methods, according to reports reaching any husbandry extension specialist at the College of Agriculture, the mois. Savings made through more economical feeding are only one of the results of the improvement of the increasing their returns, he said.

stitution of home-grown grains for more expensive protein feeds together leader of part of the corn by oats are two ways by which Illinois dairymen in git possible to cut feed costs without lowering their herd production avere member of the McLean county No. 1 association increased his monthly net in 17 cows by \$10.88 with a less expensive ration. Oats replaced a part of the the ration, thus reducing the cost of feeding approximately 24 cents a hundred. His herd also produced 34 more pounds of butterfat a month on the cheaper feed. A member of the Vermilion-Edgar county association used a ration composed of and distiller's grain instead of corn and a high protein supplement pre-

In content was the same. The cheaper ration reduced the feed cost of butter-

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Timely Notes for Farm Advisers and others from the Agricultural College, Experiment Station, and Extension Service

Vol me XVIII

November 20, 1935

Number 47

C nferences For Young Folks Next In State Program

Latest am ng the rural young peoples! organization developments in Illinois is sais conferences, the first of which is scheduled for December 9 to 12 inclusive at the College of Agriculture, University of Illinois, according to announcerunts are this Cleo Fitzsimmons and G. S. Randall, junior club extension specialists in a company peoples! activities throughout the state.

coial instructions in play presentation, discussion leadership and program planning will be given to delegates during these conferences which are being planned to give and delegate an opportunity to take an active part in the program. Dates at 1 and a storm he remainder of the series will be announced just as soon as they are been definitely set, Randall said.

This eries is only one of the late developments with regard to the rural young replace groups which are being organized and sponsored by the extension service the liege to give farm boys and girls between the 4-H club and adult age a greater part in the community's activities. Another late development is the special excitif fyrung peoples' hobbies which is being planned for Farm and Home Week, January 13 to 17. This exhibit will be set up because of increasing demands by local trees plan ing commuttees for such information.

Along with these special activities, interest in organization continues to over roard in the state. Initial steps toward setting up groups were taken in er, Mclean and Montgomery counties during October. Others already organized are liminated winter programs with drama as a favored project. Macoupin, Shelby, Err. Pl.e, Williamson and Edwards county organizations are making plans to produce lays this fall and winter. Other groups have or are planning to take trips to listeric spots of Illinois as a part of the "Know Illinois" project.

The Edgar county young men's forum which has been conducting discussions in ring the past three years considered two topics, "Illinois Sales Tax from the Farmer's Standpoint," and, "The Illinois Property Tax Law from the Farmer's Standpoint," during their last discussion series.

Many young peoples! groups plan to attend the agricultural economics schools where these sessions are being conducted in their counties by the agricultural economics department of the college.

-M-

Greater Interest Is Being Shown In Farm Discussions

Increasing interest of Illinois farm people in discussions dealing with the roblems of agriculture is indicated by the fact that 10 county teams plan to enter the stole discussion team tourney this year as compared to four teams last year, triing to D. E. Lindstrom, rural sociology extension specialist at the College of

Agriculture, University of Illinois.

This year's tourney, second of its kind to be held in Illinois, will take lare during annual Farm and Home Week, January 13 to 17. The topic for discussion will be, "How Should Agriculture Adjust Its Production."



Profile No Six Con Use Au Orchard Of 19 Fruit Eres

It takes of all 19 fm it trees and definable indit closure to wasly the average family - his with the Im it it meads, and ording to coticate, preserved by V. W. Holley, Continuit and extension compatitions the I dispect Agriculture, University of Illin ic. Such a clouding model or one of an the avenue, operationally of bushels of tractrit, PS pounds of argenuary Departs of small fruits.

The esticator consumer of a list to the cong Illin is far one are planning to it it will have appeared to apply insit for their own families. Liberal

allowance was made to to the form or it and for counting.

The maker of trees received the evening about rily of six plus consisted hirea help includes ix yell the sport of our trees, the elegan trees, three also trees, the aim of heart there is a six and thermy trees. A deparate variety change be chosen for each tree a state of a six areas will eigen through the fruit segion, Helley in Lined.

In the small or it has the total softent of more of plants includes a gray cluster, 150 strawteening cluste. A linear pamps need to be 2, 20 and rangeberry plants, 25 blackborry lonts, I is thermal as social correct outh. While the major of trees and mall that also seasons well, after mallin a proper scally are erroduced from molecularly small interests to content of the botter coarse these conceands receive.

To clarge a force molecular content, and only Policy and Content and classic.

This colection will are to seem mish son main, to local call and classic.

conditions to cell is or consular exercisce from continuous tilles, Relley en tainel. Feacher, for emugle the confressionly in the northern half of the state. Sweet cherric and not made and the first Thlin is, and middly in the northern norm. Top equently the crospective bus excloring and becoming proming consists as an sizplace tof remoting final above as to binds of fruit to be orem.

How Fredrick Well Helm To Frederic Ventile Of Fedily

Health or somethief Illinois follows dimension for coming winter months aghe contacted to a great extant by grep motions and recline made in the home terms cold reather armiver, it forms U. A. Frater or relevant at the fallers of Agric Itums, University of Illin 15.

And of the fire test of class demonstrate eliminated is gravision is made to have kindling bands for a result of the contract of the first temperature of the first fire to a result of the first fire to a result of the first fire the first fire the first fire first fire the first fire first first first first fire first firs Then but news of people being to med to death from this could indicates that it will be much safer to have not of or any ly of kindling mean the as we truthe borness orgwhich in the summer of mall stacked others chief which may be almost another direction to risk, Forcer raid.

An ther detail which, in taken or of properly, will do much to growent a merone collegie that or remaining and to all awars to been a total draft . A rootlike minimum and map to marriped by the resutting of the continual distribution of amino uses. I built-in the rittens or folt strips. Organ which permit add grafts to enter the mean rather the baseboard arm be repeated in the most open. I openfurtual terms on the repoir fily to the filters of this research state is some beautiful in research numbed cost.

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49 State Champions Named From 4-4 Oldo Vembership

Forty-hime 4-H club state champions and 45 state hanor roll members have been chosen for their substanding work from among 14,000 club members engaged in agricultural projects in Illinois during 1975, according to an unnouncement just mode by E. I. Filabara, junior alab extension specialist at the College of Agriculture, University of Illinois. The above inchips represented 25 counties and the bonor roll 59.

To win a state championship, that members had to make a score of 90 or more in some thosen better farming project expervised by the extension service of the agricultural college and their county form advicers. Honor roll winners were required to score between 70 and 70.

Fulton county clubs topped the list with seven of the 49 championships and five members listed in the honor sell. Sungamon county was second with five state champions and two honor sell members, this Lake counts placed third with four chargions.

State changions in agricultural respects include Edwin Allen, colt, and Opal Word, have are mile beneficiation, Kembalier county; Milton Bell, beef, Changaien; Levis Benchemiant, beef, LoSalla; D. ne Brett, thing, and Kenneth Ferill, corn, Madon, Herman Brown, vie: Alice Buecker, politry; Alvin Movis, sheep; Mary Buchardson, have grounds beneficiation, and Man Saarett, big, Il from Sangamon; William Brown, dairy, Winnebago; Paul Engel, colt, We benef, Free Francis, or, beef, Will, Webster Debring, Jr., pig Khasa William E. Greenhert, corn, and William Hodden, beef, Margan; William Hoditon, took and Robert Marris, and WeDonbugh, Hanny Hartman, corn, McHenry; Barl Kane, J., Saaret, Like; Ir rhot Lage, org, id, r; Koith Lynch, poultry, Marian; Danald O. Wear, coultry, and William I. Masters, allows, Fulton; Danald Mosher, rig, LeKalb; Dirl October, big, and Jorda Fotter, pig, 5, ria; Sam Ridlen, poultry, Williamson, Deen Sino, weeks, Anna and Polar Statson, page Survey.

Stales for the changions one Gilbert Plant ont J. Marrison Buckinghom, demonstration to a Top some For a Topke, wheneath we these and Maurice Wilson, corn judging to m, and Ralph Faulk, Bellar Smith and energies Turner, poultry judging team, Fulton; Delbert Bardner, dairy judging, Verron; Pollor Johnson, poultry judging, Mercer; Earl Kane, Jr., Harry Lohman and Marman Mahmer, and pudging team, Lake; Jomes Padgett, livestone judging, Adams, and Bert Phillips, Name : Smith and Wayne Wilson, livestock judging team, Marshall-Futnom.

Numbers of the honor roll are Frederick W. Bootel, Jr., DuPage county;
James Otalina, Jefferson; George Berteleen, Varren; John Cameron and Morman Smith,
Marshall-sutner; Jeane Coutes, Burewa; Bernard Deakin, John Ewan, Garold Kopplo,
Ernest Krider and Kenneth Voorbees, Fulton; Homer F. Dodd and William E. Ferishe,
Edgar; Robert Dunlay, Changuign; Burdell Gardner, Joan Hahn and Joe Hully, Livingston;
Ira Hamer, John Oren Kahn and Buth Stetchol, LeSalle; Jim Henderson, Tolewell; Eusene
Hudson, Williamson; Kernat Krager, Massac, Benates Miller, Vermille, Dean Miller,
Henderson Daniel E. Moeller, Artfingars, Veldon Thomas, Joan Roesch and Ruth Toben,
Ford: I Vern Niehous, Washington John Publiberg and Kennes: Paarlberg, Cook: Fruncis
C. Potts and Robert Summers, Sangaron; Axel Rasmussen, Coffeen, Mervie Rutledge,
DeWitt; Fred Spickler, Winnebago, Landette Satuffenberg, Will; Zawan Thornton, Morcon;
James L. Jana, Stork; Harold Winter. McDone igh and Myrle Woodward, Bond.

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Basement Party Fills Place Once Held By Husking Boo

While rural young folks of Illinois do not have the barn dences, hushing bees and other entertainments enjoyed by their fathers and mothers, they do have modern homes with basements where they can set up recreation rooms for parties, dances and other winter get-togethers, according to W. A. Foster, rural architect at the College of Agriculture, University of Illinois.

A well-built basement can be transformed from a dusty catch-all to an attractive and comfortable recreation room at a relatively small cost. Such a room will be ideal for organized meetings, parties or those informal get-togethers where young people of the neighborhood spend pleasant winter evenings playing games and enjoying popcorn, apples and other celd weather specials, Foster said.

If the walls are of concrete they may be painted or plantered. Stone or brick walls also can be painted or plantered, although a more attractive finish can be had if they are lined with knotty pine boards. This finish also can be applied to concrete wells if desired. Wall planter should be made with a common base.

There are a variety of ways of finishing the floor after it has been troweled smooth. It may be covered with homemade rugs or with a plain, he vy lineleum. It also may be painted. The painted or lineleum-covered floor makes an excellent surface for dancing or games.

Where sufficient money is possible, a fireplace adds a great deal to the basement recreation room, since it imports a cheery warmth and serves as a focal point for arrangement. Although a basement fireplace is more easily installed when the house is being built, it can be put in later, especially if there is a fireplace in the room above.

A basement recreation room may be constructed at a cost ranging from a few dollars to \$100 or more but, regardless of the cost, it will be an investment in home supervised recreation, youth, health and friends—assets which are not measured in dollars, Foster declared.

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Wheat Land May Need Reseeding Because Of Hessian Fly

Because of continued warm weather for into the fall this year, a late brood of Hessian fly is doing considerable damage to wheat in many sections and may necessitate the reseeding of some fields next spring, according to W. P. Flint, chief entomologist for the College of Agriculture, University of Illinois, and the Illinois Natural History Survey.

The fly damage was brought about by the emergence of a brood at least a menth after the normal date of sceding for highest yield, Flint said. With the mild fall weather, eggs laid at that time developed, causing the present Hessian fly infestation. Usually eggs laid after November 1 will not develop sufficiently to cause serious damage.

On strong ground much of the wheat will recover from the damage and send up tillers which will produce a crop next summer. However, the imposted fields should be watched and, if the wheat becomes seriously damaged, it may be necessary to reseed the land next spring.

Since there is every indication that the spring brood of Mossian fly will be plentiful, fields damaged by this fall's infestation probably should be rescoded to a fly-resistant crop such as oats, Flint said. Aside from wheat and berley, rye is the only other grain subject to fly damage.

Hard freezes which may be expected in most sections of Illinois from the latter part of November on will have no effect in ridding fields of Hessian fly before next spring. Consequently, this fall's infestation may be a forerunner of a heavy infestation when the 1936 crop season begins.

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Vilume XVIII

December 11, 1935

Number 50

Toirited Race On For Grain Honors At Illinois Show

Co cetition for the "corn king" title of Illinois, now held by C. J. Simmons, tockton, is expected to be more spirited this year than for a number of seasons when the state s best corn growers come together next month during the annual Illinois Seed Grain and Utility Corn Show, according to J. C. Hackleman, crops extension specialist of the college of Agriculture, University of Illinois.

As in former years the show will be a feature of the annual Farm and Home

wek to be held January 13 to 17 at the college.

Other title holders besides Simmons whose honors will be at stake in the arious divisions of the show are C. E. Canterburry, Cantrall, soybeans; F. W. Wilson acc., Edgewood, sweet clover seed; Russell D. Maurer, Carlock, red or mammoth clover; Weith McGuire, Tuscola, early oats; Keith Turner, Seymour, hard winter wheat; Clarence kin, St. Francisville soft red winter wheat; Virgil Beckerman, Mt. Carmel, "corn prince," and George Shuman & Son, El Paso, 10-acre corn growing contest.

Stimulating interest in the show this year is a harvest of important crops that for the state as a whole is generally good. The combined acre yield of important

crops is above the 10-year average. This year the show can draw on a crop of

84,588,000 bushels of corn as compared to the drouth-riddled 1934 crop of 146,760,000 ushels. The state also has a record crop of almost 19 million bushels of high quality so tears.

One indication of the large number of entries expected in this year's show is the fact that 17 growers have entered the 10-acre yield contest as compared with nine last year. For the show as a whole, the total number of entries is expected to be considerably larger than the 218 in the 1935 event.

Chief interest in the show is expected to center in the 10-ear classes for ellow and white corn, from which the new "corn king" and "corn prince" of the state will be picked. There will be 10-ear classes both for junior and adult exhibitors. ther classes will be provided for peck samples of shelled seed corn and for the various small grains.

Prices for the corn show winners will be presented at the annual banquet of the Illinois Crop Improvement Association on the evening of January 15.

Growers expecting to enter the competition may secure copies of the premium

list by writing the college.

Addition of two more addresses completes the list of speakers for the general sessions of the week. Mrs. Emily Newell Blair, of the Consumers' Division, NRA, will speak Thursday, January 16, on, "The Work of the Consumers' Council," and Dean Chris L. nristensen, of the College of Agriculture, University of Wisconsin, Madison, Friday, anuary 17, on, "The Agricultural-Industrial Balance in Our Economic Life."



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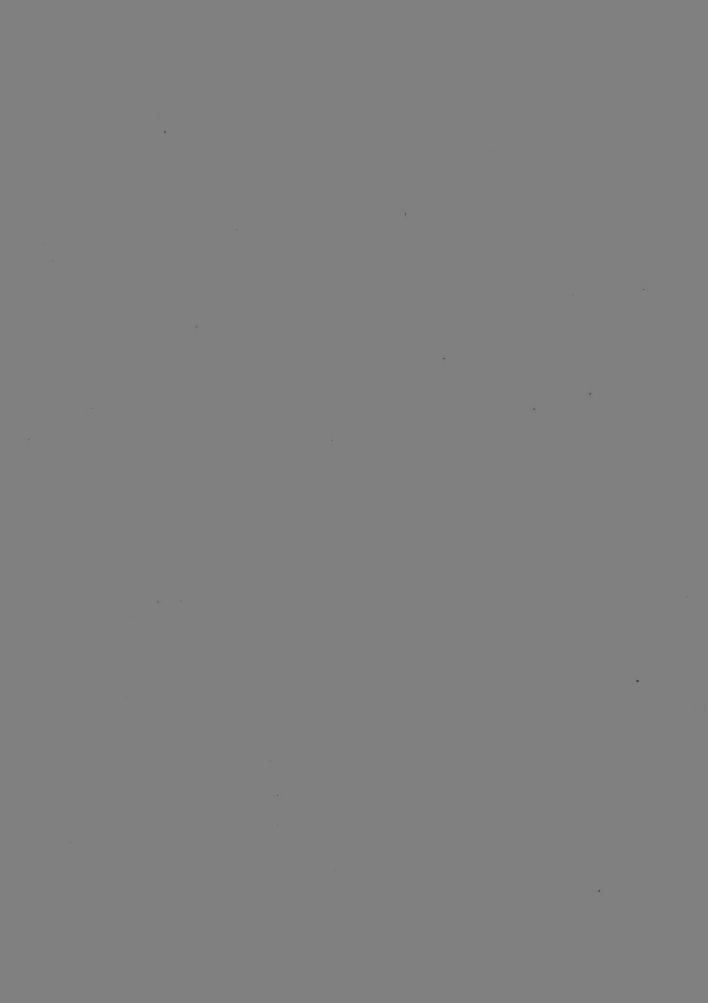
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COLLEGE OF AGRICULTURE—UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College. Experiment Station, and Extension Service

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COLLEGE OF AGRICULTURE UNIVERSITY OF ILLINOIS

Timely Notes for Farm Advisers and others from the Agricultural College. Experiment Station, and Extension Service

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finish sequentias or Form and Hose Week. Finals in Mose of the filter of the teams and the filter of the second sections of the second sections of the second secon Friends will to held Thursday evening at 6 telek in the constants of the volume -- 11dir -.



Some Cattle Best Not Brakel Lati Manuet This Season

Although there are core sattle on Seed in Illin is this Winter (bun lest, it probable will pay faceers with plenty as home-grown carn to seed quality outtle long encounts set a price timich before cordeting them, sqi! R. R. Snas; as sintershief in been cattle husbandry at the College of Agriculture, University of Illin 38.

in the other hand the reeder on har deliver grade cattle and only adjinited supply of form but clenty or good clover may and commailing may find it to his advantage to got the cattle only in good butcher condition and sell them so short facts rather than buy form for a full feeding region.

The feeder who combined his cuttle between November 1 and 10 end who intends to arket them series and er about have the outtle well on ours by the letter part of December. Shale early whom the very well to the from bay, shalk post repeated, nowth or seedling movement how remains, the animals may stop a liming or actually lose weight in oney are not fed end on armin when coll weather sets in. Snapp said.

While there is a case tanger to been cattle going off seed if put on Poll feed of corn too subjectly, the gradual change into how and roughage to grain smould be made in bost cause before the furnt of the veet.

This graded change were not apply to the one, sleshy septemblist are to be gut in price condition in a relatively short certain. Such catalogs, and to strotted in corn as so near they record the second or third work.

Provide normal trends of the presentain, out indications are that the winter and spring's see, nottle consists will remain good provided heavy sales do not glot the parties. Those energy the december of selection depends largely opin his individual situation and surply and winds of feed on home, Shape said.

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Flenty of Water to Best Protection From Far Wires

An adequate surply of water is one of the rest glarantse. Illinois dancers can have against fire or the as have lestreged mancrous lives and thousands of collar-worth of property already this minter, according to T. A. Posten, it reliarmings that the Colless of Assimulture. University of Illinois,

One hours of party of water for an engine throwing a one-half inch storage may often mean the saving of a halding. Since the engine of such finencians will require about to pall the of water a minute, the anguly should amount approximately to 100 barrels.

This is not an expensive signly to have on hand, Foster paid. A distern by feet in diameter and seven feet deep will hild this amount. A distinct time eight feet each way, or which the circ of a ten of hay in a new, who will hild operationally like harmed of water. A shall dan in the operate mush or in a convenient streng will impose, who enough water for fire fighting purposes. The pond formed by the dam not only will furnish a much-needed water supply but also will add to the teatty of the commission. It will serve as a center for landscaping and may even be used as a seating and bring the winter.

Even where road conditions of distance take it appossible for the continuous five describent to answer real calls, the water engaly is a valuable of tention. Faster declared. Plenty of water, a good out plush conveniently located takens will enable neight as to guench many a rise before it as had time to get a good start.

Then considering building problems, it is well to make arrange and a possible install pressure water equipment.

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