

# KANSAS FARMER

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## PROFESSOR HUNTER AND THE GREEN BUGS.

That the green bugs have done serious damage in Texas and in Oklahoma, and that their work is extending into Kansas is a matter of serious importance. According to late reports this is a new pest which somehow got introduced from Italy about ten years ago. It propagates rapidly and is especially destructive to wheat, oats, and other grains of similar growth.

The green bug has several natural enemies in the insect world. A fortunate characteristic of these bugs that bite the green bugs is that they do no damage to any crop, but when they have eaten up all green bugs within their reach they feed upon other of the minute enemies of the farmer, and when these fall they gracefully die and get out of the way.

The most efficient of these enemies of the green bug are small insects of the bee family. These lay their eggs on the backs of the green bugs, where they very soon hatch into minute worms, or larvae. These larvae quickly bore into the green bugs and proceed to feed upon the contents of their interiors. When all but the outside coating of a green bug has been consumed by a larva the latter has had food enough, and very soon transforms to a parasitic bee ready to begin propagating another generation of enemies to the green bug.

Knowing the full facts of the life histories of both the green bugs and the parasitic bees, Professor Hunter, of the Kansas State University, undertook to meet the invading army of green bugs with a defensive army of parasitic bees. Had he been provided with money enough to pay the very moderate expense, there is little doubt but that the damage could have been almost entirely prevented north of the Kansas-Oklahoma line. Professor Hunter's small contingent fund was soon spent and it appeared that he would have to give up the contest. Fortunately, three powerful interests offered their aid. These are the Bell Telephone Company, which tendered the free use of its lines for all business communications to and from Professor Hunter concerning the green bug; the Wells Fargo Express Company, which offered to transport all packages of enemies of the green bug free of charge; and finally the Kansas millers, who offered money to pay the expenses of the field work.

These three tenders of voluntary assistance constitute a fine tribute to the modest scientist at Lawrence who took up the fight for the wheat crop and waged the war to the extent of his means. It is to be hoped that the next season's contest will be anticipated by securing for Professor Hunter from some source sufficient public funds to enable him to wage a winning fight in time to prevent all damage to the great wheat crop of Kansas.

The entomological department of the State University has now at least three great economic efforts to its credit. The first was the fight against the chinch-bug, waged by Professor Snow. The

second was the fight to protect alfalfa from destruction by grasshoppers. This was conducted by Professor Hunter. The third is the greatly appreciated fight against the green bug which Kansas confidently expects Professor Hunter to win.

It is said that General Jackson, with almost profane piety pronounced blessings upon his friends and anathemas upon his enemies. Old Hickory's shrewdness has never been questioned. So, too, Professor Hunter's tactics of propagating friendly insects and feeding them upon the living bodies of the farmers' enemies is wisdom of the highest order.

Professor Hunter is a young man, a graduate of the Kansas State University. He is not large of stature—he may weigh as much as 125 pounds—but if he continues his record as a fighter of insect foes, it will be hard to make anybody believe that he is not as big a man as Secretary Taft.

## HOW THE GREEN BUG PROPAGATES.

THE KANSAS FARMER has anxious inquiries for accurate description and life history of the green bugs. The editor has seen no very close identification of this pest, but is inclined to believe it to be the Southern grain plant louse, scientifically known as *Toxoptera gramineum*.

According to Professor Kellogg's illustrations, this, like other aphids, presents several variations. Its size is small, length probably rather less than one-sixteenth of an inch, width about two-thirds of length, body soft.

The remarkable thing about all aphids is their manner of reproduction. The last generations in the fall consist of males, which may or may not have wings, and wingless females. After mating these females each lay one egg. This egg, if not destroyed, hatches in the spring, producing a wingless female. This female, without mating, produces living young in some cases, in others eggs which soon hatch, thus producing another generation of wingless females, which in turn mate. A strange and, for the farmer, unfortunate without mating produce another generation of fecundity is that at any time during the summer there is liable to appear a generation of winged, migratory females, capable of rapid reproduction in new locations. When the weather changes so as to threaten the extinction of the race there soon appear both males and females which mate, and each female lays one egg ready to begin the series of the following season.

Such is the general course of this class of insects. The careful study now being given to the green bug may discover some variations from the usual program. The editor hopes to be able soon to present an exact description and life history of the particular green bug or aphid that has threatened so much damage this season.

Doubtless the destruction of this pest is dependent upon our diligence in fostering and dis-

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tributing its natural enemies, a work now in progress from the State University.

**PEDIGREES MUST BE TRUE.**

**EDITOR KANSAS FARMER:**—What law if any have we in Kansas for punishing a man for falsifying a pedigree of any of the various kinds of live stock or offering any such pedigree for record, or having it recorded? We frequently hear some man say, "Oh, yes, anything can be recorded," or "Yes, you can get a pedigree for any animal." Please give any and all the information you can through THE KANSAS FARMER.  
W. T. DICKSON,  
Osage County.

The Kansas law on False Pretense is contained in section 2172 of the General Statutes of 1905. It reads as follows: "Every person who, with intent to cheat or defraud another, shall designedly, by means of any false token or writing, or by any other false pretense, obtain the signature of any person to any written instrument, or obtain from any person any money, personal property, right in action, or any other valuable thing or effects whatsoever, upon conviction thereof shall be punished in the same manner and to the same extent as for feloniously stealing the money, property, or thing [so] obtained."

As applied to the case suggested by this correspondent this statute may be paraphrased to read:

"Every person who, with intent to cheat or defraud another, shall designedly, by means of any pretended pedigree, or any false representations with regard to pedigree, obtain from any person any money, personal property, right in action, or any other valuable thing or effects whatsoever, upon conviction thereof shall be punished in the same manner and to the same extent as for feloniously stealing the money, property, or thing so obtained."

All reputable herd-book associations have strict rules as to fraudulent pedigrees. Rule 7 of the American Shorthorn Breeders' Association provides: "Should any person or persons intentionally or knowingly impose a fraudulent pedigree upon the American Herd Book, . . . space shall be devoted in the succeeding volume to his or their exposure, and he or they

shall never be allowed to enter another animal in the American Shorthorn Herd Book after he or they are convicted by the board of directors."

Violating the statute above quoted is a penitentiary offense or an offense to be punished by fine or imprisonment according as the value fraudulently obtained is more or less than \$20.

The record associations are intent on protecting their members against being brought into competition with inferior stock falsely represented to possess meritorious pedigrees. They are therefore alert to prevent fraud and to expose it whenever committed. It is believed that very few fraudulent entries are made.

**AUTHORITY OF THE TOWNSHIP BOARD IN THE CAPACITY OF HIGHWAY COMMISSIONERS.**

**EDITOR KANSAS FARMER:**—Has a township board a right to contract for anything against the wish of the people? For instance, in the township where the writer is located the township board contracted for a road-grader for a consideration of \$225, and after receiving said grader the trustee hired some of his friends to work on the roads with said grader, without advertising for said work, and also kept the road-overseer in ignorance of what was being done.

Will you kindly answer in the next issue of your paper what power a township board has according to law, and also if the above is not according to law, what can the people do to stop the treasurer from paying for said road-grader and work?

**Logan County. A SUBSCRIBER.**  
Section 1 of the act of March 7, 1905, which is section 6594 of the General Statutes of 1905, provides that the township trustee, township clerk, and township treasurer shall be commissioners of roads and highways in their respective townships.

Section 4 of said act, section 6597 of the General Statutes, provides that the said commissioners of roads "shall have entire control and general supervision of all roads and highways in their respective townships; and all tools, implements, and road machinery, together with all materials for the construction of culverts and bridges, shall be purchased by the commissioners of roads and highways."

The commissioners are also authorized to let by contract to the lowest responsible bidder any work in their township, where they deem it desirable to do so, after having given due notice, etc. The only proviso is that no commissioner shall be financially interested in any such contract.

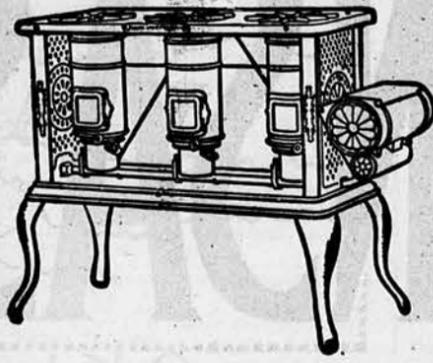
About the only remedy is for the voters to elect township officers who will have and exercise good judgment in the use of their authority. If the commissioners act dishonestly they can probably be called to account in court.

**TEACHING TEACHERS TO COOK AND SEW AT KANSAS STATE AGRICULTURAL COLLEGE.**

It is not to be inferred from the above heading that Kansas school-teachers do not already know how to cook and sew. But the increasing disposition of the school boards in the cities to introduce courses in cooking and sewing into their high schools makes it necessary to train teachers to teach these subjects. Therefore, the State Agricultural College at Manhattan, having ample facilities for this work, has for the past few years been offering each spring a "teachers' course," the term opening May 21 and lasting ten weeks. Coming at this late date it accommodates many teachers whose schools have closed, and also young ladies who are to graduate from other colleges in June. These are usually able to arrange to enter at the opening and return to their respective colleges for graduation.

In this teachers' course great attention is given to the theory of cookery, composition and digestibility of foods, the proper preparation of different foods, etc. Ample practise is given in laboratory, kitchen, and sewing-room and the lectures and recitations are made to include everything necessary to the training of teachers for this im-

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portant work. Young women who want to enter the course must have a Kansas teachers' certificate. Tuition is free other than the State incidental fee of \$3 for the term. Those doing satisfactory work are granted a certificate to teach cooking and sewing in any Kansas public school. But even if the teacher does not want to teach these subjects she will find the course very interesting and profitable and the college and Manhattan very delightful places for the summer. The course includes even more than can be taught in any high school in two years as here these teachers devote the whole time to the work.

**MUST PAY FOR HALF OF PARTITION FENCE.**

**EDITOR KANSAS FARMER:**—A owns a farm and sets out a hedge on south side of his farm on a section line. The hedge has grown to be good for posts. A sells farm to B, and C, the neighbor whose farm joins B on the south, claims half of the hedge. C didn't help set out the hedge. Is he in any way entitled to half of it? A SUBSCRIBER.  
Clay County.

The provisions of section 3159, General Statutes of 1905 are applicable to this case. This section should not be appealed to until after all reasonable efforts to arrive at an equitable settlement between the parties at interest shall have been made and failed. Each party should consider that he is entitled to what he was produced or paid for and no more. In this case C having, according to the statement, neither produced nor paid for any part of the hedge is entitled to neither part nor interest in it until such time as he shall have acquired such interest.

If the parties can not agree upon a settlement of the controversy, then it is proper for the party who produced the hedge, or the party to whom he sold his interest with his farm, to apply to the fence-viewers for an adjustment of the controversy under section 3159, which section was enacted to assure justice in such cases as this.

**SOME MAIL-ORDER QUESTIONS.**

**EDITOR KANSAS FARMER:**—Has a person manufacturing a mail-order novelty the right to advertise and sell it under an assumed name; or has he the right to use the name of the article as part of the address? Has a person the

right to do this without forming a company? Could I recover damages on account of misrepresentation from a person conducting a mail-order business who does not form a company? THE KANSAS FARMER is the best farm paper going.  
THOS. GOSS,  
Clay County.

So far as the writer has seen there is no law that seeks to prevent a person from manufacturing, advertising, and selling an article under an assumed or fictitious name unless the fictitious name were made a part of a scheme to defraud.

The name of the article may be made a part of the address.

The formation of a company neither adds to nor subtracts from the right to such use of a name.

You can recover damages sustained through misrepresentation as well from a person as from a company. The recovery in either case depends upon the proof of the fraud and upon the financial responsibility of the person guilty of the fraudulent transaction. By financial responsibility is meant that the person or company has property that can be taken on execution after judgment has been obtained.

**A UNION CHURCH COMPLICATION.**

**EDITOR KANSAS FARMER:**—I am an old subscriber and reader of the old reliable KANSAS FARMER. We commenced taking and reading your paper about thirty-five years ago. We notice that you are helping the readers of your paper in legal matters.

The people in and about Ames, Kans., some twenty-five years ago built a church by public subscription and called it Ames Union Church. A charter was procured from the State, some sort of by-laws were made, and a board of directors elected. The business has been run in a loose way and all old papers have been lost. Tom, Dick, and Harry have been allowed to care for the church with no legal authority to do so. The people that built this church have died and moved away and only some five or six persons are left of those who subscribed to the building fund. How shall the people proceed to get a legal right to own and care for the church? The church cost about \$3,500. No regular church record can be found. The church has been in use most of the time and a

sort of a board of directors has kept it open for use, by what authority no one knows.

L. O. FULLER.

Cloud County.  
The editor has called at the office of the Secretary of State and found on file the original articles of incorporation of the First Union Church Association, of Ames, Cloud County, Kansas. The charter was dated March 7, 1887. The duration of the corporation is ninety-nine years. The first trustees were G. A. Brooks, Jas. S. McKay, E. L. Chaplin, H. S. Bosworth, and H. C. Rasmussen, all of Ames, Kans. The value of the property was stated at \$3,500. There were no shares of stock.

Should a certified copy of the charter be desired it may be had by applying to the Secretary of State, Topeka, and paying one dollar.

The by-laws of corporations are not filed with the Secretary of State, so that he will not be able to furnish a copy of these. They should be found in the hands of the secretary or clerk of the board of trustees or some of the families of the original incorporators. These by-laws control the election of trustees and officers and the management of the corporation's affairs. It will be well to find these by-laws if possible.

Those who are acting as trustees—the directors of a religious corporation are called trustees under the laws of Kansas—have probably neglected or forgotten to hold an election at the regular time fixed by the by-laws. If this is the case they should call an election for another date as authorized in section 1355 of the General Statutes of 1905. It is scarcely to be doubted that these trustees on presentation of a petition for an election will call such election, at which all members of the church doubtless have a right to vote.

The old by-laws should be found if possible. If they can not be found new by-laws should be adopted. The trustees may make suitable by-laws, but these may be amended by the members at a meeting called by the trustees for that purpose on the written application of a majority of the members.

Doubtless the easiest way out of the present situation is through the action of the present directors or trustees. If they fail to act there are doubtless legal methods by which they can be compelled to do their duty, but these should be used only as a last resort. Those interested can doubtless come together in a Christian spirit and arrange to have right action taken.

**PAINT GASOLINE CANS RED.**

EDITOR KANSAS FARMER:—Please print the "red can" gasoline law. We all want to comply with it but have no copy. If too long, advise where a copy can be obtained.

Pawnee County. N. O. WAYMIRE.

Printed copies of the law referred to will not be available until June 1. The Secretary of State will furnish typewritten copy for \$1.

The law requires that every can in which gasoline is placed shall be painted red and have painted on it in big letters the word GASOLINE.

It is reported that several ranchers of West Texas have hauled water 75 miles for their cattle. Lack of cars has made it impossible to ship the cattle. Losses aggregating more than a million dollars are threatened. Suits for damages against the railroads are also threatened.

The Government reports of Kansas weather for the week ending Saturday, April 27, are necessarily silent on the general precipitation throughout the State on Monday, April 29. The weather was raw and cold and snow fell over a large part of the State. The moisture was much needed. It will greatly promote the growth of the wheat.

Secretary James Wilson, of the United States Department of Agriculture, announces that there is trouble ahead for those manufacturers of foods and drinks who, having been compelled by the pure-food law to make and sell unadulterated goods, are now proclaiming that their goods are guaranteed by the Government.

Secretary Wilson is quoted as saying that "Manufacturers who will deceive the public about the guaranty will lie about the quality of the product." This is a serious matter and Government intervention seems necessary. The pure-food law compels these manufacturers to be decent and sell only unadulterated goods, and the fact that they now advertise that their goods are guaranteed by the Government shows an exhibition of "gall" that is not often excelled.

The dealers in adulterated seeds "got theirs" from Secretary Wilson, who had repeatedly warned them that their names would be published if they did not cease this practise. Their experience ought to be a warning to those manufacturers of foods, drugs, and drinks who maintain a like practise.

**Miscellany**

**The Condition of Kansas Wheat.**

The Kansas Board of Agriculture on last Monday issued a report of the crop situation, especially as to winter wheat. This report is a painstaking analysis of statements made by one thousand of the board's most experienced and careful observers representing all portions of the State, particular attention, however, being given to counties having the greatest wheat acreage, and incidentally those from which damage by green bugs has been most loudly and persistently proclaimed.

Secretary Coburn says: "It should be stated that this is not a report of probabilities, or what may happen, or what the situation may be next week or next month, but of conditions as they were in Kansas in the last half of the fourth week in April. It is not an expression of opinion by the Secretary of the State Board of Agriculture; it does not deal with conditions past or present in Oklahoma or other outside territory. It is not the wail of some unfortunate and dejected Jones or Brown whose wheat-field or neighborhood has suffered mishap; not on the one hand the weird word-painting of an emissary sent out in a Pullman car by speculators to spy the land through bulls' eyes and smoked glasses, nor on the other of an artificially inspired land-broker whose early expiring options prompt his painting the landscape in rose tints, but is the sober consensus of what the men on the ground, neither bought nor sold, buying nor selling, see and say.

"Every day statements are published of what may occur and the various disasters that will follow unless there is a change of weather within a given time, or that if misfortune, reported in the next county, should come and destroy the wheat the yield would be greatly diminished. All of this when analyzed amounts to no more than a restatement of the accepted fact that unless it rains a long dry spell is probable. Anxiety and actual damage are by no means identical; green lice do not necessarily spell great loss, and April bugs do not avenge a breadless year."

Following is the report:

Winter Wheat.—Last year's winter wheat area was 6,239,041 acres; in December the growers reported the sowing for this year's crop as approximating 6,500,000 acres. This in the main safely passed the perils of winter. The continuous warm, growing weather of early spring caused it to advance remarkably, and it was unusually forward and flourishing, but later unfavorable circumstances have changed the situation. The high conditions prevailing everywhere three and four weeks ago have in a major portion of the wheat territory been lessened somewhat each day since by the abnormally cold April, including several severe freezes, a lack of the rains which would have sustained or promoted its vigor, and, in various southern counties, damage inflicted by myriads of the green lice reported so harmful in Texas and Oklahoma. Correspond-

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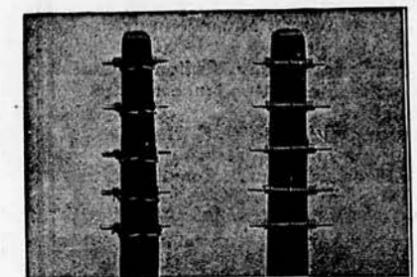
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**The Kansas Farmer Co.**  
TOPEKA, KANSAS.

ents mention these as present to a greater or less extent in thirty-six counties—doing in some considerable damage and in others none. These counties are in the southeastern fourth of the State. What the lice have contributed to the aggregate deterioration is not made apparent, but their most serious injury is reported done in the thirteen counties of Butler, Chautauqua, Cowley, Elk, Harper, Harvey, Kingman, Marion, McPherson, Montgomery, Sedgwick, Sumner, and Wilson. It is in these that the largest areas will be plowed up. Only one of the thousand reporters mentioned the presence of the Hessian fly, and but two referred to the chinch-bugs. Correspondents dwell on the fact that fields showing the least promise, and the earliest to succumb to unfavorable circumstances, have been those seeded on stubble, in corn-stalks, or on ground poorly prepared. In numerous instances, too, where stands were excellent and growth thrifty, overpasturing left the plants with insufficient vitality to withstand their later trials.

Fifteen counties in all report from 10 to 28 per cent as likely to be plowed up, Chautauqua, Butler, Bourbon, Montgomery, and Elk being worst, but these have small wheat acreages. The present returns, however, indicate that but a small proportion of the aggregate will be plowed up, approximating perhaps 4 to 5 per cent of the State's total. Even then the remaining 6,289,000 acres constitute a larger field than was ever previously devoted to winter wheat in Kansas, and its general average condition is reported as 84. The better conditions are returned from the western part of the State, and especially from the northwest.

In the twenty-five counties having 60 per cent of the area sown to wheat last fall essentially the same percentage is plowed up as is reported for the State, and the condition of that allowed to stand is given as 83, but one point below the general average of the whole.

One year ago the conditions of the 6,239,041 acres left, after all plowing up was done, was 89.5, and the crop harvested from it amounted to 91,157,414 bushels, or the greatest income-bringing wheat crop grown. June 5, two years ago, the conditions of the 5,405,963 acres left standing was 77.1, and its product 75,842,659 bushels, the greatest income-bringer up to that time.

The unfavorable conditions for wheat have likewise been detrimental to oats, and where these crops sustained most damage and promise least, larger areas of corn would be expected, although the general returns at this time do not presage that a more than ordinarily large acreage will be planted.

The table below shows by counties the probable area of winter wheat sown in each last fall, the per cent estimated plowed up, and the per cent of present condition (based on 100) for the remainder:

County	Probable acreage.	Plowed up, per cent.	Condition of remainder, per cent.
Allen	27,037	4	80
Atchison	31,065	7	90
Anderson	13,980	1	95
Barber	71,518	6	84
Barton	261,695	2	89
Bourbon	11,483	23	75
Brown	33,854	0	94
Butler	19,246	24	66
Chase	8,637	11	67
Chautauqua	5,734	28	60
Cherokee	31,472	9	61
Cheyenne	22,009	0	90
Clark	24,512	2	95
Clay	71,931	2	83
Cloud	82,144	3	88
Coffey	21,122	12	64
Comanche	28,478	1	89
Cowley	72,725	16	65
Crawford	26,135	3	80
Decatur	78,706	0	96
Dickinson	102,466	3	80
Doniphan	27,347	0	88
Douglas	29,961	4	80
Edwards	139,565	2	85
Elk	8,482	20	71
Ellis	176,158	1	88
Ellsworth	130,374	5	79
Finney	12,294	2	100
Ford	122,789	4	90
Franklin	10,174	7	74
Geary	21,708	10	85
Gove	54,741	7	86
Graham	85,125	0	97
Grant	540	0	85
Gray	40,143	0	85
Greely	894	9	86
Greenwood	6,907	4	80
Hamilton	1,509	3	91
Harper	156,500	11	82
Harvey	87,570	4	73
Haskell	10,391	0	90

Hodgeman	77,375	3	83
Jackson	9,792	1	94
Jefferson	19,468	1	90
Jewell	47,383	4	88
Johnson	37,670	2	86
Kearny	3,079	0	90
Kingman	124,278	5	79
Kiowa	91,203	1	88
Labette	37,420	5	64
Lane	80,225	3	90
Leavenworth	35,963	2	88
Lincoln	100,834	3	83
Linn	11,065	10	80
Logan	28,406	3	92
Lyon	19,057	18	61
Marion	83,246	13	71
Marshall	45,786	0	90
McPherson	176,506	7	76
Meade	35,166	0	90
Miami	22,354	3	84
Mitchell	116,972	0	84
Montgomery	38,197	22	61
Morris	8,651	5	74
Norton	1,004	0	85
Nemaha	9,223	0	91
Neosho	25,938	5	77
Ness	124,536	0	90
Norton	54,689	1	91
Osage	20,645	1	78
Osborne	117,082	0	89
Ottawa	95,445	0	84
Pawnee	210,315	0	93
Phillips	71,340	0	90
Pottawatomie	10,447	2	87
Pratt	176,383	5	83
Rawlins	89,871	2	95
Reno	227,185	2	79
Republic	34,263	0	87
Rice	164,712	0	85
Riley	13,619	6	77
Rooks	121,974	0	97
Rush	183,254	6	98
Russell	148,529	4	90
Saline	111,453	5	79
Scott	30,127	0	80
Sedgwick	154,956	13	69
Seward	13,394	0	100
Shawnee	8,589	0	90
Sheridan	73,156	2	92
Smith	71,022	0	95
Sherman	8,643	5	90
Stafford	201,544	1	78
Stanton	904	0	80
Stevens	2,959	0	100
Sumner	263,439	15	58
Thomas	75,783	1	92
Wabaunsee	14,972	6	77
Trego	72,754	0	90
Wallace	2,635	5	98
Washington	65,038	1	89
Wichita	23,051	0	80
Wilson	18,300	12	66
Woodson	8,047	9	72
Wyandotte	11,048	0	91

### Lady-Bugs Eat Green Bugs.

The insects found in the wheat-field with the "green bug" and sent in by Mr. Dwight P. Mills, of Eagle, Barber County, Kansas, were referred to Dr. L. C. Riddle-Smyth, of the Kansas State Museum for identification. She sends us the following reply:

"The insects sent by Mr. Mills which seemed to be feeding upon the notorious 'green bug' or wheat aphid are larvae or young of one of the Coccinellidae or lady-bugs. The larvae are full grown and some are already pupating, but are not advanced enough to absolutely determine the species. They are probably Hippodamia convergens Guer. These insects were undoubtedly doing just what Mr. Mills suspected, feeding on the 'green bugs' as they are called; for with one exception the entire family of coccinellids is predatory on insects and especially fond of aphids. The larvae are voracious eaters and hence are among the most beneficial insects. They are easily recognized when once known and should be protected wherever found. They sometimes bite savagely when handled but their bite is entirely harmless. Members of this family feed upon San Jose and other scale insects, on all kinds of aphides and plant-lice, as well as upon many other plant-eating larvae and grubs. If they were not destroyed by insecticides used to kill the plant-lice they would soon become numerous enough to destroy the pests."

The Douglas County Horticultural Society has issued a neat program for 1907 which shows the names of the officers and dates and subjects for discussion at each of its monthly meetings. Mr. Jno. N. McComb is president, Geo. W. Maffet, vice-president, and Samuel Reynolds, secretary-treasurer, all of Lawrence. Among the subjects for discussion at the monthly meetings which are always held on the third Saturday, are, May—"Picking and Packing Fruit," "The Best Implements for the Horticulturist." June—"New Varieties of Fruit," "The Fruit Market," "The Blackberry and Raspberry." July—"The Peach," "Rotation in Fruit Crops." August—"The Apricot," "Floriculture," "Reports of Berry-Growers." September—"The Management of Vacant City Lots," "The Vegetable Garden." October—"Autumn Planting of Fruit-Trees," "The Bird Friends of the Horticulturist." November—"The Grape," "The Planting of Forest-Trees." December—"The Season's Experience," Business.

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PURE-BRED STOCK SALES.

Shorthorns.

May 28-Henry Kuper, Humboldt, Neb.
May 31-W. A. Forsythe, Greenwood, Mo.
June 4-Taylor & Jones, Williamsville, Ill.

Herefords.

May 15-Fair Acres Herefords. Mrs. C. S. Cross,
Portland, Kans.

Poland-Chinas.

May 24-Hebbard & Roy, Wichita, Kans.
June 12-J. Walter Garvey, Thayer, Ill.
September 19-J. T. Hamy, St. Haven, Kans.

October 17-J. T. Ellerbeck, Beatrice, Neb.
October 18-C. A. Lewis, Beatrice, Neb.
October 19-Geo. Falk, Richmond, Mo.

October 21-F. D. Winn, Randolph, Mo.
October 22-F. A. Dawley, Waldo, Kans.
October 23-W. N. Messick & Son, Piedmont, Kas.

October 24-A. P. Wright, Valley Center, Kans.
October 24-G. M. Hebbard, Peck, Kans.
October 24-W. J. Honneyman, Madison, Kans.

October 25-Martin Lantz, Atherton, Mo.
October 25-A. B. Hoffman, Resco, Kans.
October 26-Bolin & Aaron, Leavenworth, Kans.

October 28-J. son Calhoun, Potter, Kans.
October 29-The Big 3, Centerville, Kans.
October 31-L. C. Caldwell, Moran, Kans.

November 1-Harry E. Lunt, Burden, Kans.
November 2-O. E. Shaffer & Co., Erie, Kans.
November 2-Thos. F. Walker, Alexandria, Neb.

November 2-Dietrich & Spaulding, Richmond,
Kans.
November 4-C. S. Nevius, Chiles, Kans.

November 5-Lemoor, Ford, Minneapolis, Kans.
November 5-E. L. Carr, Bolcourt, Kans.
November 5-W. E. Crowther, Golden City, Mo.

November 7-T. P. Sheehy, Hume, Mo.
November 8-D. E. Crutcher, Drexel, Mo.
November 8-U. S. Ison, Butler, Mo.

November 9-H. H. Harshaw, Butler, Mo.
November 11-A. Adams & Lorraine, Moline, Kans.
November 12-W. N. Messick & Son, Piedmont,
Kans.

November 12-I. E. Knox and Wm. Knox, Black-
ell, Okla.
November 13-J. C. Larrimer, Wichita, Kans.

November 14-C. W. Dingman, Clay Center, Kas.
November 16-C. G. Mills, Pleasant Hill, Mo.
November 18-J. J. Ward, Belleville, Kans.

November 19-A. F. Schmitz, Alma, Kans.
November 19-C. E. Tennant, New Hampton, Mo.
November 20-Bert Wise, Reserve, Kans.

November 20-B. E. Maupin, Pattonsburg, Mo.
November 21-F. D. Fulkerson, Brimson, Mo.
November 21-Everett Hayes, Hiawatha, Kans.

November 22-C. E. Hedges, Garden City, Mo.
November 23-F. F. Oreley, Oregon, Mo.
October 7-T. S. Wilson, Hume, Mo.

torious, was bred by N. H. Gentry. He is a Scotch top of the thick-fleshed, early-maturing type, color red, is only 2 years old, and is an excellent breeder. There is sure to be bargains among the young females for they are a choice lot. This sale will be held under cover rain or shine. Colonels Bellows and Brady will do the selling. Write for catalogue, attend this sale, and assist in the dispersion of this fine herd.

Sale of Shorthorns by Brown County Shorthorn Breeders Association.

The Brown County Shorthorn Breeders Association held their second annual sale at Hiawatha, Thursday, April 25. Breeders from Kansas and Nebraska assisted in the distribution of this select draft from the herds of C. M. Christenson, Sabetha; Everet Hays, Hiawatha; T. J. Sands, Robinson; J. P. Lahr, Sabetha; and Nells Hansen, Willis. The consignment consisted of 47 head of Scotch and Scotch-topped cattle, including 20 bulls and 20 females, and was one of the best combination offerings of the season, because of the excellent quality of the animals included. The top price paid for bulls was \$625 for Scotchman 245103 a straight Scotch bull by Imported Royal Pride. He was bid off by B. W. Reeber, of Morrill, Kans., who recently sold his sire, Imported Royal Pride, for the long price of \$1,200. Scotchman is a bull of show-yard type and a sire of wonderful merit, and he sold at a bargain price, one of his heifer calves went in this sale for \$150. Scotchman was bred and consigned by C. M. Christenson, Sabetha.

The highest priced female was Hiawatha Bell, bred and consigned by Everet Hays, and sold to B. W. Reeber for \$225. The cattle were presented in thrifty, well-kept form which reflected credit on the breeders, and will make them profitable to their purchasers. Col. Bellows, Marlon and Wood did the selling. The sale was under the management of Everet Hays, secretary-manager.

Summary and list follow.
31 females sold for \$3,132-ave. \$101.00
16 bulls sold for \$1,665-ave. \$104.00
47 head sold for \$4,797-ave. \$102.50

- Guinea's Victoria, Henry Cooper, Humboldt, Neb. \$110.00
Lady Lovely, Henry Cooper. 85.00
Dona Lucia Lass, B. Overfield, Hiawatha. 95.00
Dona Dolores, J. H. West, Hiawatha. 75.00
Katrina, J. H. West. 80.00
Sprinkles, M. M. Morton, Robinson. 97.50
Benista, Wm. Pecht, Morrill. 130.00
May Queen, J. H. West. 82.50
Fanny 2d, S. F. Walters, Hiawatha. 92.50
Queen Gwendoline, Wm Pecht. 97.50
Blooming Maid, Frank Robinson, Morrill. 72.50
Daisy, B. Walters, Baker. 75.00
Pearl, Wm. Pecht. 100.00
Ruline, Everett Hayes, Hiawatha 132.50
Ruline's heifer calf, Everett Hayes. 150.00
Grand View Lady, B. W. Reeber, Morrill. 145.00
Grand View Lady's heifer calf, Tom Davis, Troy. 75.00
Red Beauty, B. W. Reeber. 70.00
Queen's Choice, Tom Davis. 150.00
Red Daisy, John McCoy, Morrill. 150.00
Hiawatha Bell, B. W. Reeber. 225.00
Beaut of Nemaha, J. H. Beattie, Rose Hill, Mo. 70.00
Cecelia, B. W. Reeber. \$65.00
Edna, B. W. Reeber. 120.00
Anona, B. W. Reeber. 120.00
Hilda, B. W. Reeber. 90.00
Zenia, S. F. Walters. 125.00
Bath Pea, B. Overfield. 80.00
Countess Beauty, B. Overfield. 72.50

- SCOTCHMAN 245103, B. W. Reeber \$625.00
Magazine, C. Rugar, Fairview. 70.00
Duke of Sharon, M. Willicks, Germantown. 75.00
Enterprise, Robt. McAfee, Hiawatha. 80.00
Senator 275419, O. B. Raymond, Hiawatha. 60.00
Wanderer 275533, Fred Mosser, Hiawatha. 82.50
Guardman 275532, J. Overfield, Baker. 52.50
Bellstar 275418, W. H. Grayner. 55.00
Dobbins, R. R. Miebach, Powhattan. 77.50
Golden Gem, Wm. Pecht. 60.00
Crown Prince, A. P. Trull, Hiawatha. \$77.50
Duke of Gloster, L. Kurtz, Hiawatha. 70.00
Evening Star 275322, J. B. Kaltenberger, Hiawatha. 70.00
St. Valentine, J. H. Cornelson, Reserve. 82.50
Duke of Bath, L. J. Cashland, Powhattan. 72.50

W. H. Cummings & Son's Durocs.

In the past two years W. H. Cummings & Son, of Tecumseh, Neb., have established and developed one of the most useful herds of Durocs in that part of the State. In order to do this they have purchased breeding animals from some of the best herds in the West for their foundation stock. Their herd-sows are a choice lot, possessing both size and quality. They are farrowing large litters and raising them. They are by champion and prize-winning sires such as Orion, Tip Top Notcher Jr., University Russell, Ed's Improver, he by Improver 2d, and other good ones.

There are sixteen sows bred for spring farrow, and the most of these already have fine litters at foot. The pigs are remarkable for quality, size, color, and uniformity. There are about eighty of these at the present time, with a good prospect for more than one hundred when all of the sows have farrowed.

One of the finest litters is by the prize-winning boar, Junior Jim, and out of a \$190 sow by Orion. Other fine litters are by Tip Top Notcher Jr., Beautiful Joe, a grandson of Buddy K., Kant's Model, and Lincoln Top (W. M. Putman's great young boar); also a large number by the herd-boar, Oh How Good 52251, a big, strong, arched-back fellow, with both size and quality, and

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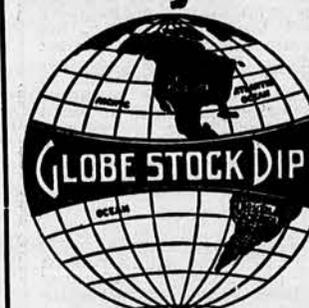
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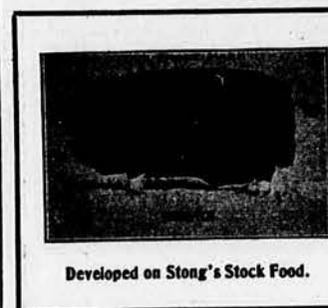
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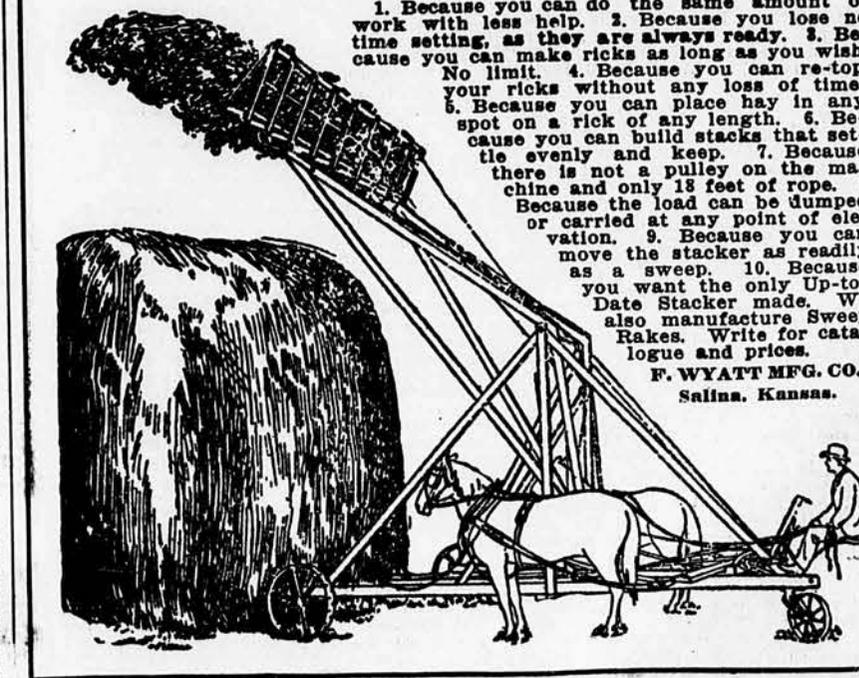
Stong's Stock Food promotes health and vigor, and will cure mange, scurf and worms in hogs, cattle and sheep. Is being used by some of the largest stock raisers in the country. Three days' feed for one cent. 33 lbs. \$5.00, 50 lbs. \$7.50, 100 lbs. \$15.00, f. o. b. St. Joseph, Mo.

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On Saturday, May 18, at Holton, Kans., there will be sold at public auction sixty head of Shorthorn cattle. This will be a dispersion sale of the herds of Herbert Haub, and Henry Haub, deceased. This offering will consist of thirty cows of breeding age, with calves at foot or in calf to their Scotch-topped herd-bull Goodenough 280149, ten bulls from 1 to 2 years old, also twenty young females from 10 months to 2 years old. These cattle are Scotch-topped or from the best standard American families, and will be presented in thrifty, well-kept form, not too fat, but in the best condition to bring good results to their purchasers, and reflect credit on their breeders. Haub & Son are well known as successful and progressive breeders, their constant aim has been to improve their cattle, which they have done by buying new blood from some of the best herds. The females of breeding age are the large, heavy-milking kind, very uniform in general conformation and color, which in nearly every case is a deep red. A number of the cows will weigh from 1,500 to 1,800 pounds. Some of those especially worthy of mention are Rose Baron by Baron Rose, tracing to Imp. White Rose, through her dam. This cow is of great size and good color. Violetta, sire Grand Victor, tracing to Imp. Bracelet, she by Duke of Athol. Cherub 2d by Young Victor. Cherub of Greendale 2d by Rodney. Jessica, sire Courtier 2d by Imp. Prince Bishop. These all trace to Imp. Jassamine. Cheerful Lass by Red Champion on Rosemary foundation. Dainty Mary, sire Red Champion, tracing to Imp. Young Mary. Pandora, by Kansas Chief and tracing to Young Phillips; very fine individual, is in calf to Secret Orange, a pure Scotch bull. The bulls are a useful lot. There are a number of farmers' bulls, while a number are fit to head good herds. The herd-bull, Goodenough by Vic-

a most excellent sire. Oh How Good won second in a class of seventy at the Nebraska State Fair 1906. Cummings & Son start their card in this issue of THE KANSAS FARMER. Watch it carefully for what they may have to offer you.

**A Good Herd of Aberdeen-Angus.**

We take pleasure in calling the attention of our readers to the advertisement of W. A. Holt, breeder of Aberdeen-Angus cattle at Savannah, Mo. Mr. Holt owns one of the best farms in Andrew County and his attractive home and well-kept barnyard gives the visitor a good idea of what he may expect to see when he gets to the cattle yards. Not a large number did we find but a medium herd of well-kept, excellent individuals with pedigrees good enough for any one. These were the kind of Aberdeen-Angus cattle that we saw at Allendale Stock Farm last week.

Mr. Holt has purchased his foundation stock from the leading breeders and the good, common sense that he has used in mating them has produced some excellent results. Bardi 41016 is Mr. Holt's herd-bull now about 6 years old with one of the deepest bodies we ever saw, and is one of the most typical beef animals we have seen for a long time. Some of the best cows in his herd are Prairie Lorraine 3d 40494, Sunflower Minnie 30758, Princess Iola 48181, Minnie Best Blood 83322, Lucy 5th of Le Crew 46860, Maggie Bella 76374, Williamsdale Lucy 56107, and Queen Thelma 93770. Sunflower Minnie is the dam of a May yearling bull that he is now offering for sale, and Williamsdale Lucy, the mother of a January yearling male that some one ought to have to head their herd. We call special attention to this young sire because we believe he is worthy to go to some good breeder. Any one interested in obtaining a good young bull will do well to write Mr. Holt and mention THE KANSAS FARMER.

**Spring Valley Herefords.**

Herefords coming from the Spring Valley Farm of B. E. Carpenter, of Helena, Mo., are very popular because their owner has always made it one of his rules to breed to nothing but the best of sires, and the matrons of his herd have always been all that any one could ask for in richness of breeding. Mr. Carpenter's herd now numbers about one hundred head and is headed by Onward 12th and He's a Columbus, two well-known Missouri sires. Onward 12 was shown by the late Jas. Funkhouser at five great shows in which he was never below second place, and is pronounced by many judges to be a superior animal to the Onward who won sweepstakes at Nebraska State Fair last year. Mr. Carpenter now has ten good 2-year-old and a number of yearlings for sale sired by him. He's a Columbus is one of Mr. Carpenter's greatest favorites. This bull is a large, meaty fellow who transmits great size and quality to his get. Any one needing a bull should visit this herd. Mr. Carpenter has one of the finest farms in Missouri. It consists of 500 acres completely watered by springs and is easy of access from St. Joe. A carload of good 2-year-old range bulls can be obtained in that immediate vicinity. Write him and mention THE KANSAS FARMER.

**J. W. Leeper's Shorthorn Sale.**

This will be one of the best offerings of Shorthorn cattle that will be driven through the sale ring this year. Scottish Lad 212208, who died last September, was one of the best sires in Nebraska, and all of the bulls in this sale are sired by him; and every one of them is a good individual. Among the offering of female stuff is Grace of Fairview, by Bell Duke of Fairview 13856, a cow of excellent quality and a producer of good ones. There will also be three of her calves in the sale that are good ones. Four of the best things in the sale are 18-months-old heifers sired by General Wheaton 142808, who as a sire of good, even individuals never had a superior in Nebraska. Lady of Londondale 2d by Nebraska Canute is also an attraction in this sale and is the mother of the best bull in the offering. While Mr. Leeper does not have a very large herd of cattle it is one of the best in Nebraska, and whoever attends his sale expecting to see a good offering will not be disappointed. Write for catalogue and mention THE KANSAS FARMER.

**Gossip About Stock.**

Beautify your homes with green house plants. Tyra Montgomery, Larned, Kans., will send a sample dozen for fifty cents grown in his Larned Home Nursery.

John W. Jones, the well-known breeder of Duroc-Jersey swine, Concordia, Kans., announces a change of his date for his fall sale, to be held October 15, 1907.

We call particular attention to the announcement to the Hereford breeders of America, made by Mrs. C. S. Cross, Emporia, Kans., calling attention to the dispersion sale of the Fair Acres Herefords. The catalogues are now ready for distribution, and we shall have something particular to say in next week's issue regarding this unusually attractive offering.

Any one needing a young Poland-China boar should read the advertisement of M. Bradford & Son, of Rosendale, Mo. We recently inspected the animals he is offering for sale and they are well worth the money he is asking for them. Mr. Bradford has been breeding Poland-Chinas for ten years and has a type that pleases the farmer. Write them and mention THE KANSAS FARMER.

The dispersion sale of standard bred horses, from the herds of Dr. J. T. Axtell and Mr. C. B. Warkentin, which will be held in the Fair Grounds, Wichita, Kans., May 8th, is attracting no little interest among horsemen. Very sel-

dom are such noted sires as Gambrel 2:10 1/2 and Falmont, 2:14 1/2 offered at public auction. If you want a horse with breeding quality and style, you will find this sale to your interest.

Late transfers of Holstein-Friesian cattle are reported, in Kansas, as follows: Prince Inka Aaggie Canary Mercedes, Dr. Geo. C. Mosher, Kansas City, Mo., to John F. Conlon, Atchison; Aaggie Dorinda Netherland 4th, Caroline Pietertje, Clifden Florizel, Kloster Florizel 2d, Queen Mab Wytje, H. N. Holdeman, Meade, Kans.; Nettie Bolick, H. N. Holdeman to G. G. Burton, Topeka.

J. F. Cook & Co., of Lexington, Ky., and Newton, Kans., write as follows: "We have ten jacks, 2 to 7 years old, fourteen and a half to sixteen hands high; two jennets, a 3- and a 6-year-old, fourteen and a half to fifteen and a half hands high; two 3-year-old saddle stallions; one 2-year-old saddle stallion; and one trotting stallion. This is young, fresh stock and will be priced less than they can be bought in Kentucky. Our barn at Newton will be closed on May 19, and this stock must be sold before that time. If you can use another jack or stallion you should go to Newton at once and see this stock."

One of the best hog-waterers now on the market is that made by the Only Manufacturing Company, Hawarden, Iowa. It is called the "Only," and thousands are in use everywhere throughout the country. It was invented and is manufactured by a practical hog-raiser who makes a specialty of raising 1,000 hogs per year. One feature that commends the Only is that it can be used in the winter. Simple in construction, thoroughly reliable in operation, guaranteed to give satisfaction, the Only waterer should be used on every farm where hogs are raised. For the necessary information read the advertisement on another page and address the Only Manufacturing Company, Hawarden, Iowa.

Look at what R. F. Norton, of Clay Center, Kans., is offering for sale in his breeders card. He owns the Orchard Hill Herd of Duroc-Jerseys and now has about the best bunch of fall gilts for sale that he has ever offered and they are all bred to Kansas Chief 37491, who is a first-prize winner at the Kansas State fair and a grandson of Ohio Chief. If you want a good, tried herd-bear just take a look at Kansas Chief who is to be sold because of too many of his gilts in the herd. All of these fall gilts were bred to Norton's Top Notcher, who is a son of Tip Top Notcher. It will be seen that Mr. Norton has some mighty good blood lines in his herd and the pigs are just as good as their breeding. Find out about this herd boar and these bred gilts.

J. W. & J. C. Robison, who breed the big Kansas Percherons at their Whitewater Falls Stock Farm at Towanda, Kans., report the recent sale of the registered Percheron stallion, Dago B. 43217, to Mr. C. J. Clinkenbeard, of Wetmore, Kans. This colt will be 2 years old this spring and weighs near 1,700 pounds. Manager J. C. Robison thinks Dago B. is the biggest-boned colt they have sold in recent years. Mr. Clinkenbeard read the various statements concerning the Whitewater Falls Stock Farm Percherons, and went down to see for himself. On his arrival he found he had a splendid bunch of fifty stallion colts from which to select, and the size of bone, style, action, and growthy qualities of Dago B. filled his eye, and he bought him and now owns what promises to be one of the best breeding stallions that ever went from the Whitewater Farm to Eastern Kansas. The farmers of Wetmore and vicinity are to be congratulated on the good judgment of Mr. Clinkenbeard, which places such a stallion at their disposal.

To the Hereford Breeders of America: My entire herd of Herefords will be offered for sale publicly at "Fair Acres," Emporia, Kans., Wednesday, May 15, 1907. Twenty-seven cows, ten with calves at foot; twenty 2-year-old and yearling heifers, and twenty-five bulls, including the superb yearling bull, Christy, by Keep On 2d. All except a few of the older females are of my own breeding. The herd was established eight years ago with a few choice females selected from the Sunny Slope Herd, chiefly daughters of the celebrated sires, Wild Tom and Albion. Since then I have added several very superior cows selected from the herds of C. A. Stannard, Steward & Hutchison, and Gudgeon & Simpson. The bulls and heifers are all the get of Tranquility, by Beau Brummel, and the calves are by Major Beau Real. From the outset I have declined to keep any animal at Fair Acres that did not breed regularly, and I take some pride in the fact that cattle produced in this herd have invariably proven breeders in others' hands. The greatest care has been taken to keep the herd in thrifty breeding condition, not too fat and never lacking in sufficient flesh to insure the best development. From the standpoint of blood lines, individual excellence and show-yard winnings at the World's Fair, International, and American Royal of the Fair Acres Herefords this sale should prove one of the most important that the breed has made in recent years. I cordially invite all who are interested in good Herefords to attend the sale and participate. Kindly mention THE KANSAS FARMER when writing for catalogues Woods and Bellows, auctioneers, Emporia, Kans. Mrs. C. S. Cross.

**Farmers as Poultry Men.**

One of the most serious handicaps that the American farmer has to carry, is the regular annual hen strike. Just as often as the sun crosses the autumnal equinox, just so often Mrs. Hen refuses to do any more business, and leaves Mrs. Farmer with no pin or grocery money. From that time 'till the sun warms the north side of the barn,

**ACTUAL TESTS**

are the things which count. Farmers all over the country made tests for us last year with

**Nitrate of Soda**

(The Standard Ammoniate)

In every case the crops which had a top dressing of Nitrate of Soda yielded a far more abundant harvest than those without. We want more tests on

**WHEAT Rye or Barley**

and to a limited number of farmers will send sufficient Nitrate of Soda for the purpose

**ABSOLUTELY FREE**

the only condition being that they follow directions for its use, and report on the result. To the twenty-five farmers who show the best results will be sent, as a prize, Prof. Voorhees' valuable book, "Fertilizers," dealing with natural, homemade and manufactured fertilizers, with suggestions as to the use for different crops. 327 pages, handsomely bound.

Apply for the Nitrate of Soda at once, as this offer is necessarily limited. Books of useful information will be sent free to farmers, if paper is mentioned in which this advertisement is seen.

Send name and complete address on post card.

William S. Myers, Director, John Street and 71 Nassau, New York

**Which Do You Prefer**

**Profit Makers** or **Profit Takers**



It means Profit Making for you to thoroughly rid your poultry houses and poultry of "profit takers" at the earliest possible moment. **Red Label Lice Killer** is easily used and quickly destroys all lice and mites. To thoroughly rid your poultry of lice and mites paint the roosts and dropping boards with **Red Label** direct from the can. The fumes will kill the vermin.

**RED LABEL LIQUID POULTRY LICE KILLER**

**AND DISINFECTANT**

Mixes Readily With Water; Makes a Perfect Emulsion. To effectively rid your poultry house of lice and mites spray or sprinkle every nook, crack or crevice with one part **Red Label** mixed with twenty parts water and you can be assured that every "profit taker" will be killed. In addition to destroying the lice and mites **Red Label Lice Killer**, being a strong and efficient disinfectant will kill every germ and prevent poultry diseases. Guaranteed under Food and Drug law, Serial 4809.

Cans Are Full Standard U. S. Measure.

**At Dealers** Quart, 35c; half-gallon, 60c; gallon, \$1. If your dealer cannot supply you, or will not order for you, we will ship a trial gallon, express paid east of Rockies, on receipt of \$1.25. Satisfaction guaranteed. Send for booklet.

**Moore Chemical & Mfg. Company**  
1503 Genesee Street KANSAS CITY, MO.

Made by the makers of **Car-Sul Dip** for Hogs, Sheep and Cattle. Booklet Free.



**STANNARD'S PROCESSED CRUDE OIL** Kills Lice and Cures Mange. There is no Remedy on the Market as Good or as Cheap. It not only kills all lice on cattle and hogs, but all nits, and one application does the work. Does not injure hair or skin. Can be used in vats or with brush. Also kills lice or mites on chickens. Put up in new 52-gallon barrels and sold for \$5 per barrel. I have used nearly all dips on the market and I say to you, from experience, this oil is better and more effective than any of them. Why pay \$50 per barrel when you can get a better article for \$5? I also sell a heavy Pure Crude Oil as it comes from the well that is a good lubricating oil, 52 gallons for \$3.50; an excellent grease to keep plow-shares and cultivating-shovels from rusting. Try these oils and you will always use them. When ordering, state plainly whether you want the Processed Oil or the Pure Crude. Send remittance with order. C. A. STANNARD Emporia, Kans., Sunny Slope Farm. Please mention Kansas Far...

**URES WHILE HE WORKS**

Blokmore's Gall Cure prevents laying aside a good horse because he is suffering from galled shoulders or back. You can work your horse and cure him quickly and surely with the old reliable **BIKMORE'S GALL CURE**

Equally sure for all cases of chaps, bruises, speed crack, wire cut or cracked cow's feet. Guaranteed. A valid substitute; look for trade mark. Every horse owner can have our new illustrated Horse Book and large sample box Gall Cure for 10c to pay postage. Write. Sold by dealers. Blokmore Gall Cure Co., Box 916, Old Town, Maine.



There is very little "doing" in fresh eggs, and prices soar. We are quite inclined to take this regularly yearly "shut down" as necessary, and put up with it, just as we do with the high price of coal. But it's a mistake—there is no more need of suffering that loss than there is of standing any other sort of "bunco" game. Mrs. Hen can be made to understand and do her full duty, if you do your duty by her. Did you ever observe your hens closely during this "off" period? If not, during you do, next time it occurs. You will find them dull, listless, logy and will be shedding their feathers. Now moulting is a natural and necessary period in the round of the hen year, but it need by no means be a time of total loss, and if you intend to get your share of the profit sure to come from a constantly increasing demand, you must cut this non-productive period down as much as possible.

The proper thing to do with hens in order to avoid this lost time is to give regularly a small amount of Dr. Hess Poultry Pan-a-ce-a in the morning feed. I do not hesitate to say that there is nothing so well adapted to the poultry-man's need, as this preparation. Dr. Hess studied every possible phase of the "hen problem" by scientific research and careful experiment under just the conditions which poultry men are compelled to meet, and Poultry Pan-a-ce-a is the result.

If you are not acquainted with Dr. Hess Poultry Pan-a-ce-a and what it does, let me say first—it is not a stimulant; it does not excite the hen to an unnatural and artificial production of eggs. It does however, compel every organ to act in a natural and healthy manner by causing the hen to digest and assimilate the largest possible amount of food taken, so that laying becomes a fixed and constant habit. Poultry Pan-a-ce-a makes rich red blood and supplies the nitrates necessary to assist in throwing off poisonous matter from the system, so that health becomes a natural condition in confinement as well as in liberty. I do not hesitate to say that no flocq can be diseased when Dr. Hess Poultry Pan-a-ce-a is regularly given.

If this course is begun with young chicks and followed consistently every day, growth will be rapid and loss practically nothing. I have known pullets handled in this way to begin laying in October and continue productive through the entire winter, and as I said before it shortens the non-productive period for old stock. Dr. Hess and Clark are so certain of the value of their Poultry Pan-a-ce-a that they give a written guarantee with each package; if it does not give results, it costs you nothing. One cent's worth of Poultry Pan-a-ce-a will make a daily feed for 30 fowls. If you use it as directed, and occasionally sprinkle roosts and nest boxes with "Instant Louse Killer" your success will be ample.

**Stevens Rifles are Famed for Accuracy.**

Whether the competitive shoot be indoor or outdoor, be the conditions of the Match what they may, it is a perfect tribute to Stevens rifles that they invariably carry off all the leading prizes. That a Stevens rifle is invincible in its unerring, bull's-eye accuracy, is proverbial. The attachment of a Stevens Telescope to the barrel of a Stevens Rifle makes "assurance doubly sure," and removes any possible doubts as to inability to hit the mark.

It is no wonder that discriminating marksmen shoot the Stevens in preference to other makes. Experienced shooters know what the time-honored rifles branded Stevens are capable of—they know they can depend absolutely and unqualifiedly on these peerless firearms. For small game and target shooting there is nothing to equal a Stevens. The latest links added to the long chain of Stevens successes are the following: Every first prize in Third Annual Tournament of Indoor 22 Caliber Rifle League of the United States, Rochester, N. Y., January 28th to February 2d, 1907, was won by Stevens and Stevens Pope Rifles and Stevens Telescopes; 23 of the 30 Telescopes used were Stevens.

At the Zettler Rifle Club Annual Open Tournament, New York City, March, 1907, Stephens Rifles and Stevens Telescopes made practically a clean sweep. First prize in every match was either won or tied with Stevens and Stevens Pope rifles and Stevens Telescopes.

Send four cents in stamps to the J. Stevens Arms and Tool Co., Chicopee Falls, Mass., for 140 page complete, illustrated, firearm catalogue, describing their entire output. This book of ready reference is replete with Stephens information and contains all you may wish to know regarding these celebrated rifles, shotguns, pistols, etc.

**The Gun a Teacher.**

A story is going the rounds in New York of a discussion between two well-known business men who visit the Maine Woods every shooting season.

One had been telling of his outing, which he had found doubly delightful, because for the first time he had taken his small boy along.

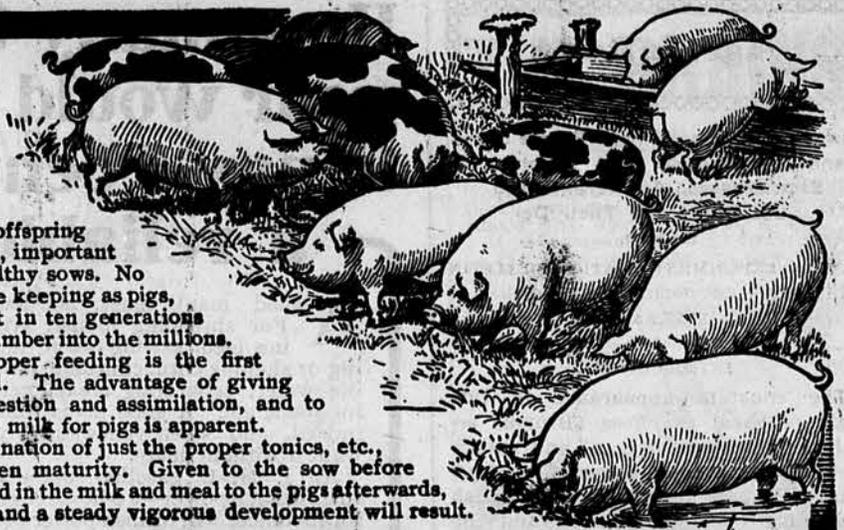
"A boy of twelve? I should be afraid," said the other, "to give my boy the responsibility of a gun."

"Well," said the first, "I should be afraid to deprive my boy of his share of responsibility. Nothing develops a boy like responsibility."

This man's view is exactly in line with the propaganda being carried forward by the J. Stevens Arms and Tool Company, Chicopee Falls, Mass. They argue very reasonably that by putting a rifle or gun in the hands of a boy you teach him to be careful, you increase his self-respect, and make him self-reliant and manly.

The Stevens company have issued a catalogue on rifles, shotguns and pistols, which every father should see. It not only describes the many different styles there are to-day, but it is a perfect mine of information on all points connected with shooting, whether for sport or field, or target practice. We have read the copy sent us with the greatest interest, and strongly advise our read-

**Vigorous Pigs**



The sow is supposed to impart to her offspring her own constitution. It is, therefore, important that we raise pigs from vigorous, healthy sows. No stock will give as much return for the keeping as pigs, if properly cared for. It is said that in ten generations the progeny from a single sow will number into the millions. But disease must be avoided. Proper feeding is the first necessity and cleanliness the second. The advantage of giving a sow a tonic to insure proper digestion and assimilation, and to increase both quantity and quality of milk for pigs is apparent. Dr. Hess Stock Food is the combination of just the proper tonics, etc., to produce perfect health, and hasten maturity. Given to the sow before farrowing, and up to weaning time, and in the milk and meal to the pigs afterwards, there will be no loss from disease, and a steady vigorous development will result.

**DR HESS STOCK FOOD**

is the prescription of Dr. Hess (M.D., D.V.S.) and costs but 8c per month for the average hog of 125 pounds. It is especially intended to make market stock grow faster, cows give more milk and horses do more work. Besides this, it gives stock that sleek, healthy appearance that commands the fancy price. As proof that Dr. Hess Stock Food will produce the results we claim, we quote Professors Winslow, Finlay Dun and Quitman—the most noted of all medical writers—who tell us that bitter tonics improve digestion, that iron makes blood and nitrates of soda and potash assist nature in throwing off the waste material from the system. These are the ingredients contained in Dr. Hess Stock Food, and besides it is

**SOLD ON A WRITTEN GUARANTEE.**

100 lbs. \$5.00. 25 lb. Pail \$1.60. } Except in Canada and  
Smaller Quantities at a Slight Advance. } Extreme West and South.

Where Dr. Hess Stock Food differs in particular is in the dose—it's small and fed but twice a day, which proves it has the most digestive strength to the pound. Our Government recognizes Dr. Hess Stock Food as a medicinal tonic and this paper is back of the guarantee. Free from the 1st to the 10th of each month—Dr. Hess (M. D., D. V. S.) will prescribe for your ailing animals. You can have his 96 page Veterinary Book any time for the asking. Mention this paper

**DR. HESS & CLARK, Ashland, Ohio.**

Also manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer. Instant Louse Killer Kills Lice.

ers to write for it. The company's only request is that four cents in stamps be sent to cover postage; the catalog itself is free.

**Beekeepers' Supplies.**

Located at Augusta, Kans., is one of the largest beekeepers' supply house in the West. This extensive business is managed under the firm name of Buck & Wilson. Mr. Buck started this enterprise when little more than a boy, and has added to it until at the present time they are shipping supplies to a number of Western States, and their business runs into the thousands of dollars annually, amounting to \$20,000 last year.

They have entirely outgrown their present quarters, and are contemplating erecting a brick building sufficiently large to accommodate their fast-growing business. Their factory has just been equipped with the Weed New Process comb foundation machinery, which has a capacity of 500 pounds of comb foundation per day. This "Foundation" is sold under a positive guarantee, and will not fail to give satisfaction.

Buck & Wilson are also prepared to furnish all other kinds of beekeepers' supplies, including golden and leather-colored Italian queen bees of the first quality. They keep from two to three hundred stands of bees and can furnish pure comb honey in quantities to suit the purchaser.

**Dipping at the Kansas Agricultural College.**

Professor Kinzer of the Animal Husbandry Department of the Kansas Agricultural College has just ordered another barrel of Zenoleum Animal Dip and Disinfectant and writes as follows: "Our herdsmen who use Zenoleum Dip like it better than any other dip we have used."

This preparation is made by the Zenener Disinfectant Company, 151 Lafayette Avenue, Detroit, Michigan. They will be glad to send their sixty-four page booklet, "Zenoleum Veterinary Adviser," free, post paid, to any reader of this paper.

**In Every Mail.**

Letters from patrons of the same general purport as the following come in by every mail. It is everywhere conceded that the only original "Chamberlain's Perfect Chick Feed" is the best to be had, while the price is no higher than is asked for imitations. It is only the good things that are counterfeited:

"W. F. Chamberlain, St. Louis, Mo. 'Dear Sir—"

"Please ship to A. C. Harris, Creigh-Chamberlain's Perfect Chick Feed. Say, ton, Mo., five hundred (500) pounds of your Feed is 'O. K.' and once used, always used. Send me some advertising matter, if you have it, and oblige.

"Yours truly, "A. C. HARRIS.

"Ulrich, Mo., April 20, 1907."

**New Advertisers.**

- D. O. Coe, Chick-o.
- Zimmerman Seed Co., Chick food.
- W. A. Schreier & Son, sweet potato plants.
- United Supply Company, make \$500.
- J. T. Woolsey, Texas colony.
- S. A. Scott, alfalfa land.
- L. M. Penwell, funeral director.
- State Savings Bank, Topeka money.
- Bureau of Navigation, U. S. Navy.
- Simmons Hardware Co., keen-kutter tools.
- Bowman Bros., Red Polled cows.
- C. M. Garver, Shorthorn bulls.
- Position, man wanted.
- Erhardt Carriage and Harness Company, trade for improved farm.
- County clerk, stallion for sale.
- F. A. Barrington, Poland-China boars.
- Int. Stock Food Co., stock foods.
- Smith, Mfg. Co., separators.
- W. A. Hoyt, Angus cattle.
- B. E. Carpenter, Herefords.

**Just a Little Sum For You!**



Springfield, Mo., Jan. 15, 1907. I have run one of your Separators for twelve years with \$1.65 for repairs, and I think it can't be beat. (R.F.D. 7) L. E. CHAPPELL.

One Cent a Month, to maintain a U. S. Separator! Sure, that's a little sum for you to pay to maintain a machine that gets ALL the cream out of your milk. That's what a U. S. does!

**Holds the World's Record for CLEAN SKIMMING.**

Time has proved it is durably built. Not "how cheap," but "how good," is our watchword, and the record of the U. S. during the past sixteen years proves we've stuck to it. "The best is cheapest in the end." Buy the U. S.

We'll send you free our large handsome catalog. Lots of pictures showing just how the U. S. is built and how it works. See for yourself why it wears longer than any other separator. Write us today—now.

Just say: "Send new 1907 Catalogue No. 91."

**VERMONT FARM MACHINE COMPANY**

Eighteen Distributing Warehouses. 464 Bellows Falls, Vt.

**THE BANNER RIDING ATTACHMENT**

Will fit on any right or left hand wood or steel beam walking plow, lister, sod breaker, middle breaker or harrow. ALL OF THIS WITH THE SAME ATTACHMENT. A wrench all the tool for attaching. Is regulated by levers, same as a regular riding plow. Plow or lister may be adjusted to depth from 1 to 12 inches, and from 8 to 24 inches width. Lifts point out of the ground for moving. Made of malleable iron and steel; no wood or hard castings. 25-inch wheel with removable box, 2-inch oval tire, 1 1/2-inch solid steel axles, steel levers, pressed steel seat—the best of material used throughout. Weight complete 110 lbs., and will cause plow or lister to stay in as hard ground and do as good work as any riding plow or lister. 15,000 now in use. WE GUARANTEE EVERY ONE. Only \$15 from your dealer, or delivered by us to your nearest station. We want an agent in every locality and we prefer men who use plows. Write for terms and full descriptions. THE IMPLEMENT AND MFG. CO., Coeyville, Kans.

**\$100 REWARD \$100**

The ONLY will not run over or clog and will run all winter. If it fails we forfeit \$100.

**SIMPLE—DURABLE—RELIABLE**

Easy to set and gives no trouble. Holds 10 gallons. Six to eight hogs can drink.

Write for free trial offer or send ten cents for book on hogs. Do it today.

**Only Manufacturing Co., HAWARDEN, IOWA**

**SECURITY GALL SALVE**

POSITIVELY HEALS SORE SHOULDERS SORE NECKS OR BACKS ON HORSES AND MULES IT HEALS THEM ANYWAY IN HARNESS, UNDER SADDLE OR IDLE IF NOT SOLD IN YOUR TOWN WE WILL SEND YOU FREE SAMPLE. If you send the name of your dealer. Put up in 25c, 50c and \$1.00 Cans MONEY BACK IF IT FAILS SECURITY REMEDY CO. MINNEAPOLIS MINN.

FOR BARK WIRE & ALL CUTS USE SECURITY ANTISEPTIC HEALER

Agriculture

Commercial Seeds of Brome-Grass, and of English and Kentucky Blue-Grasses: Adulterants and Substitutes and Their Detection.

KANSAS EXPERIMENT STATION BULLETIN 141, BY H. F. ROBERTS AND GEO. F. FREEMAN.

INTRODUCTION.

The constant appearance in this State of cheat or chess (Bromus secalinus), as an adulterant and substitute in seed of Hungarian brome-grass (Bromus inermis) and English blue-grass (Festuca elatior) and the use of Canadian blue-grass (Poa compressa) as an adulterant of the seed of Kentucky blue-grass (Poa pratensis), renders it extremely necessary to publish such information as will enable farmers to distinguish the species mentioned clearly and readily.

Of the brome-grasses, there are about forty species, all but a few of which are annuals of comparatively slight value among these are Bromus secalinus, or cheat, just referred to, which occurs as a weed grass among the other grasses, and in fields with the cereal grains, all over the north temperate zone. Indeed, its frequent appearance in wheat has given rise to the superstition that wheat changes to cheat under certain circumstances. That this is impossible it is needless to state.

English bluegrass (Festuca elatior), belonging to the genus Festuca (the fescue grasses) with about eighty species, is more nearly related to the brome-grasses than to the real blue-grasses. The species known as meadow fescue, or English blue-grass, is the most valuable of all the fescue grasses, and has grown rapidly in favor in recent years through the eastern and central portions of this State.

Kentucky and Canadian blue-grasses belong to the genus Poa, with about

How many times during a year would you be willing to pay 5 cents an hour for a reliable power?

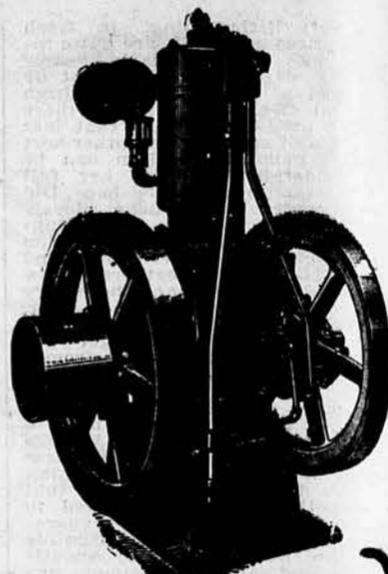
A good many times, no doubt. For shredding fodder, grinding feed, sawing wood, husking or shelling corn, churning, pumping water, separating cream, grinding tools, etc. A good many times, indeed, and when you want it you want it without delay.

An I. H. C. gasoline engine will furnish such power—a 3-horse engine, for instance, will furnish power equal to that of three horses at a cost of five cents an hour, and it will be always ready when you want it, and ready to work as long and as hard as you wish. You don't have to start a fire—not even strike a match—to start an I. H. C. gasoline engine. All you have to do is close a little

switch, open the fuel valve, give the flywheel a turn or two by hand, and off it goes, working—ready to help in a hundred ways.

Stop and think how many times you could have used such convenient power last week, for instance.

There should be a gasoline engine on every farm. Whether it shall be an I. H. C. or some other engine on your farm is for you to decide, but it will pay you well to learn of the simple construction of I. H. C. gasoline engines before you buy. It will pay you to find out how easily they are operated, how little trouble they give, how economical in the use of fuel, how much power they will furnish, how strong and durable they are.



It will pay you to know these things, and the way to find them out is to call on our local agent or write for catalog. These engines are made in the following styles and sizes:—Horizontal (stationary or portable), 4, 6, 8, 10, 12, 15 and 20 horse power. Vertical, 2 and 3 horse power.

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one hundred species, distributed through all the temperate and cold regions of the earth. Although nearly related to the fescue grasses, they are quite distinct from them.

It is often the case that a farmer buying the seed of forage grasses is totally unfamiliar with the plants themselves, or if he has seen and examined them he may remain unacquainted with the general appearance of the commercial seed. As with nearly all grasses, so in the case of those species discussed in this bulletin, the true seed is enclosed within the chaff or "glumes," which remain as a tight envelope around it. The commercial "seed," therefore, is the true seed plus the enclosing chaff, and with sometimes a bit of the axis of the flower stem adhering. The seeds, or grains proper, within the glumes or chaff, are hardly familiar at all. Nevertheless,

in thrashing, the grains sometimes escape, and are found mixed in the commercial seed. It is accordingly worth while to learn to know them.

DESCRIPTION OF THE GRASS FLOWER.

To understand a close description of the commercial seeds, some knowledge of the nature of the grass flower is presumed as necessary. Grasses usually have their flower heads in close, stiff spikes like wheat or foxtail, or in open panicles like blue-grass or oats, although there are all manner of modifications of these two very general types. The spike or panicle, as the case may be, has usually a main or principal axis, upon which

more or less numerous secondary branches are borne. In the case of the grasses under consideration in this bulletin, the long, slender, nodding secondary branches are known as "rays." These ray branches bear the spikelets or clusters of flowers, usually, upon yet smaller branchlets. The spikelet in oats, for example, is a very closely set and densely packed group of flowers, growing in alternate order upon a very much shortened axis called the "rachilla." Sometimes the ray will bear several of these spikelets. Coming from the joints or nodes of the rachilla are usually from one to several flowers, of which not all are seed-

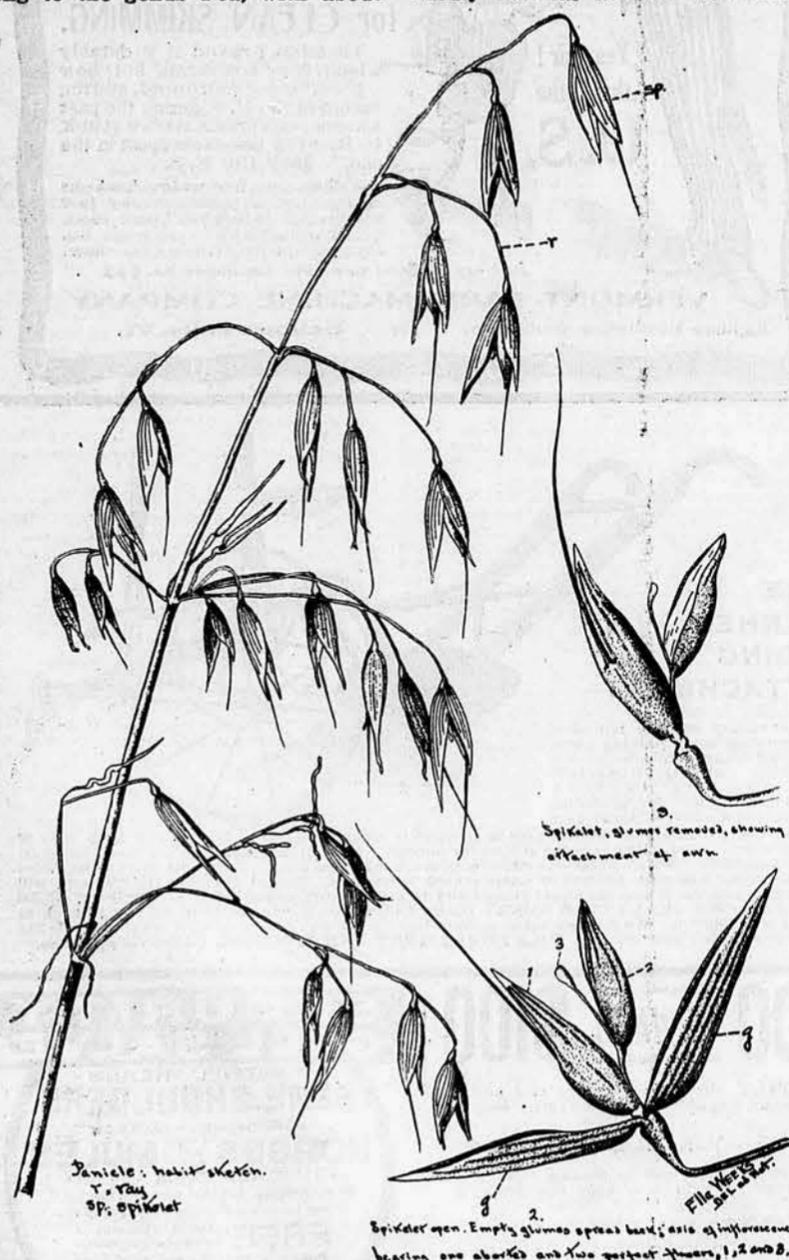


PLATE I.—Typical grass inflorescence (Oats); panicle and details of spikelet to show the structure of flowers of grasses. 1. Panicle, habit sketch; r., ray; sp., spikelet. 2. Spikelet open, empty glume (g.) spread back; axis of inflorescence bearing one aborted and two perfect flowers (1, 2 and 3). 3. spikelet, glumes removed, showing attachment of awns.

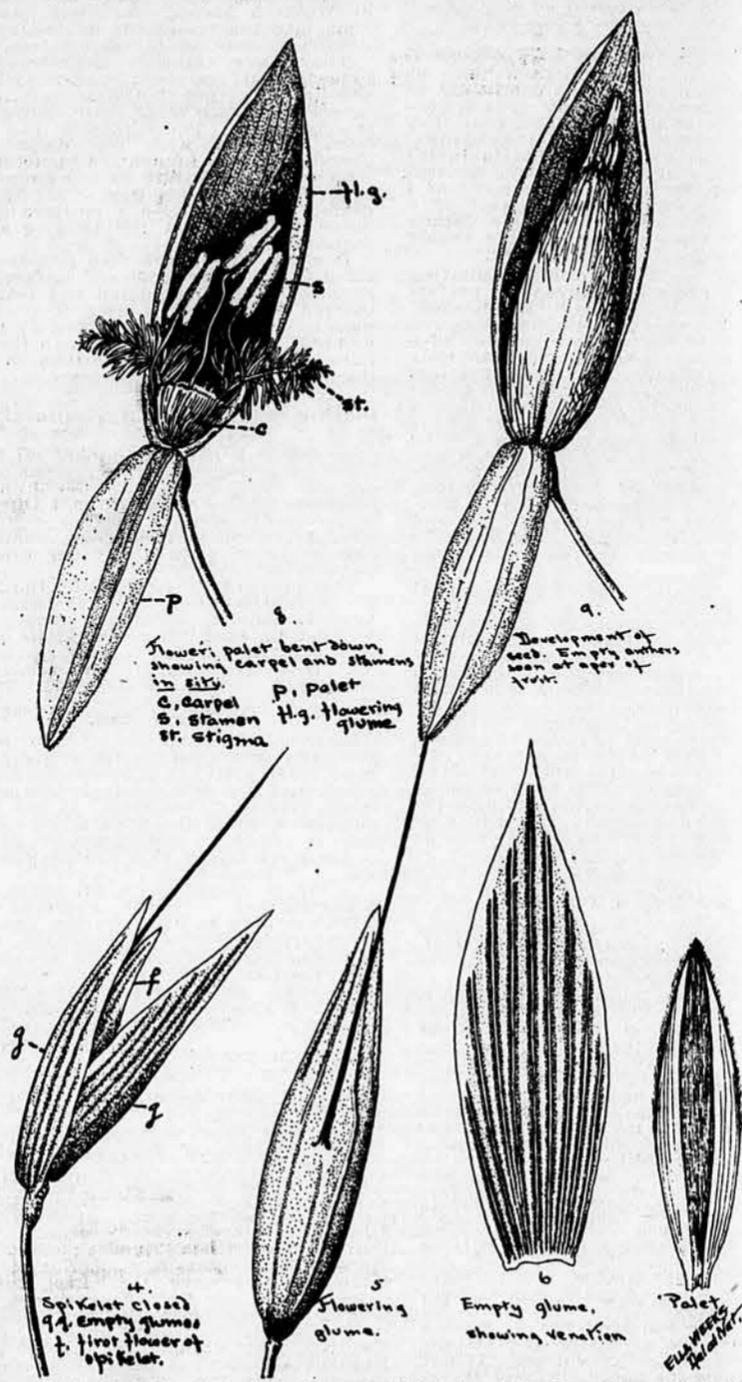


PLATE II.—Details of flower of grass (Oats). (Continuation of figures in Plate I.) 4. Spikelet closed: g., empty glumes; f., first flower of spikelet. 5. Flowering glume. 6. Empty glume showing venation. 7. Palea. 8. Flower open, with palea bent down, showing carpel and stamens in position. p., palea; fl., g., flowering glume; c., carpel; s., stamen; st., stigma. 9. Development of seed. Empty anthers visible at apex of fruit.

bearing as a rule. Ordinarily in the cereal grains, not more than two or three flowers develop, the remainder aborting. At the base of the spikelet are two scales or chaffs, known as the "empty glumes," because they bear no flowers in their axils. Sometimes, as in oats, the empty glumes are so large as to enclose completely the flowers of the spikelet. In other cases, as in wheat, the flowers, or some of them, appear above the edges of the glumes. The individual flower of grass is devoid of any showy display of colored petals or like appendages. The three stamens, or pollen-bearing organs, are situated in a ring around the single carpel, from the top of which appear two plume-like stigmas, upon which the pollen falls. The whole is enclosed within two scales or bracts the larger and heavier outer scale being called the "flowering glume," and bearing the "awn" or "beard," when it occurs. The inner scale, known as the "palea," is thin, papery, and membranous and it is often more or less completely enclosed by the infolding edges of the flowering glume. The flowers of grass are opened by means of the swelling of the glandular scales called "lodicules," located at the base of the carpel, and lying between it and the base of the flowering glume. See Plate III, Figs. 10 and 11.

The details of the structure can easily be understood by referring to the figures on Plate I, II, and III, in which the oat flower is used for purposes of illustration, because of the simplicity, clearness, and distinctness of its flower characters.

The carpel calls for further description. In grasses, the carpel, or pistil, contains but a single ovule. This ovule, in the course of its development, grows to and unites with the tissue of the enveloping wall of the carpel, and the entire structure of carpel and ovule grown together ripens as a whole into what is known as the "caryopsis," the so-called "seed" of grasses. See Plate II, Fig. 9.

In the case of most of our cereal grains, as in wheat and rye, and in some of the wild grasses, the "seed" or caryopsis is released from the glumes at maturity and escapes. In most of the common wild and cultivated forage grasses, however, the seed does not escape from the glumes, but either breaks off from the axis of the rachilla or else, as in spelt, emmer, and oats, the whole spikelet, with its several flowers becomes severed.

In thrashing grass-seeds, the individual flowers, which contain the ripened seeds, are rubbed off the spikelets, and each such flower, consisting of the now dried and stiff flowering glume and palea, tightly enclosing the seed within, constitutes the "seed" of commerce. The real seed, or caryopsis, not being visible, the characters which are used to distinguish the

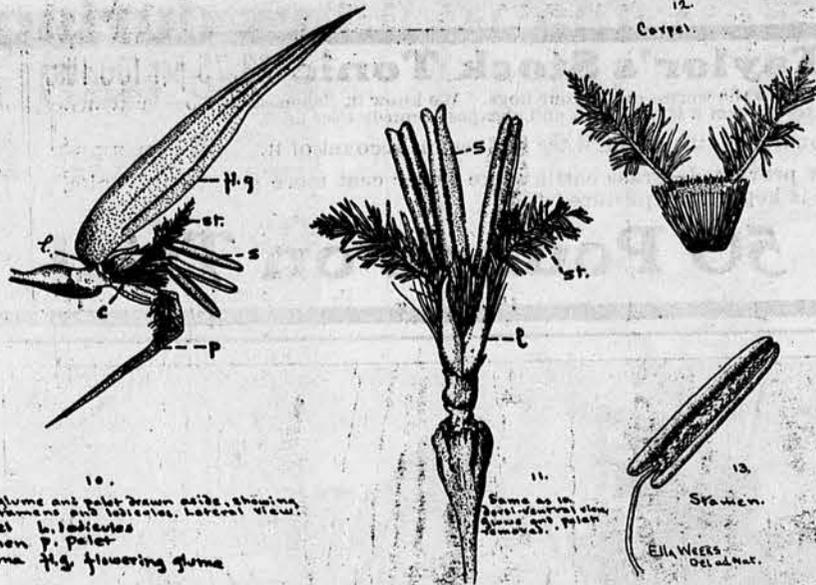


PLATE III.—Details of flower of grass. (Continuation of figures in Plate II.) 10. Flower with flowering glume and palea drawn aside, showing carpel, stamens, and lodicules. Lateral view. p., palea; fl. g., flowering glume; c. carpel; s., stamen; st., stigma; l., lodicules.



PLATE IV.—Bromus inermis, showing method of propagation by underground stems, called "rootstocks" or "rhizomes." These are seen at "r."

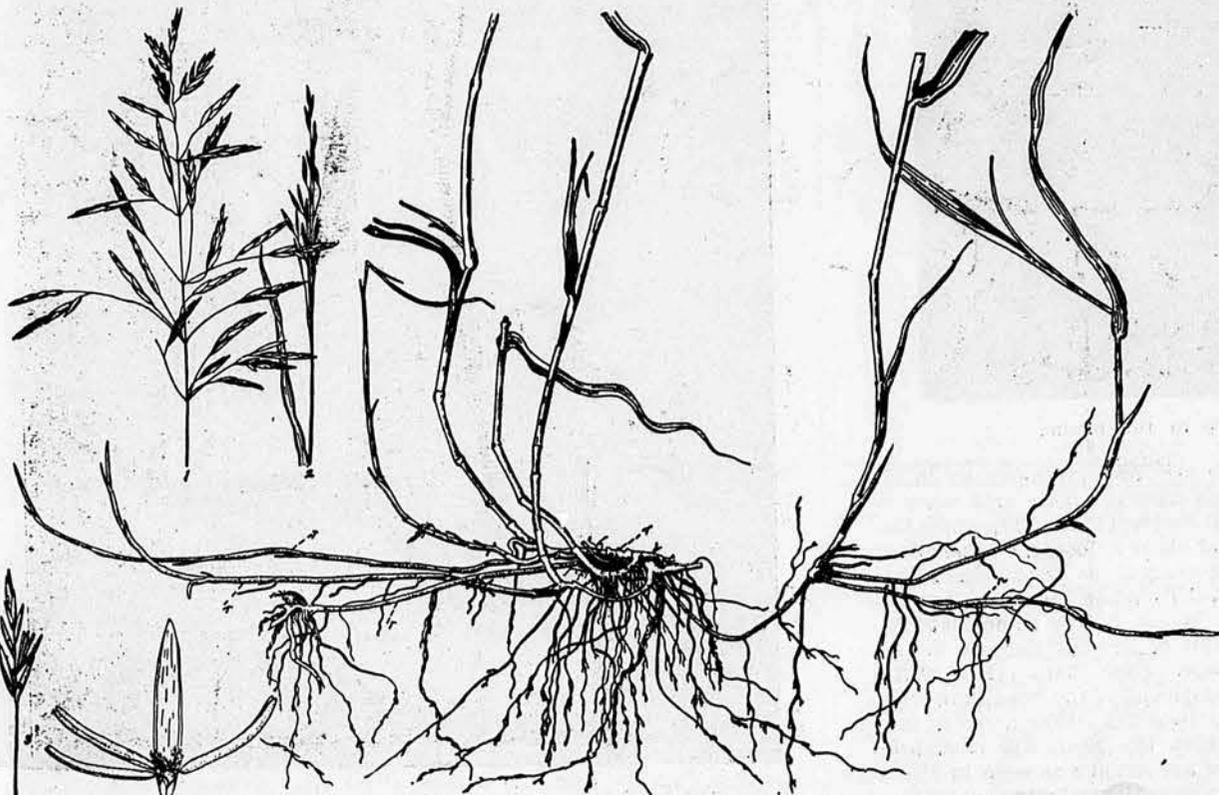


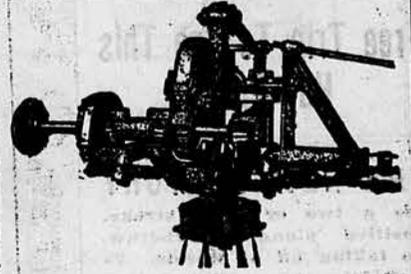
PLATE V.—Bromus inermis. System of propagating rootstocks 1. Panicle. 2. Single ray of panicle. 3. and 4. Flowers.

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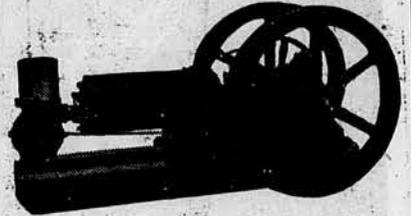
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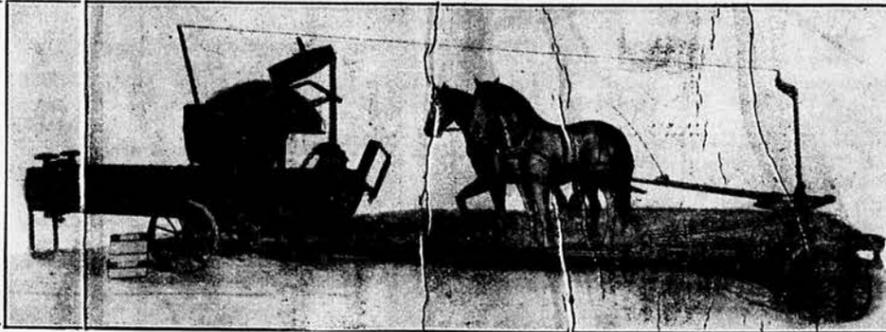
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seeds of grasses are those which appear on the two enclosing glumes.

CHEAT, HUNGARIAN BROME, AND ENGLISH BLUE-GRASS.

At the present time the comparative unfamiliarity of many of our farmers with the seed of cheat, English blue-

mass of fibrous roots, from the crown of which a number of flower-bearing stems arise. The panicles or heads in brome-grass and cheat are very unlike in general appearance, as will at once be recognized on comparing Plates VI and VII. Bromus inermis has an erect, open, spreading panicle,

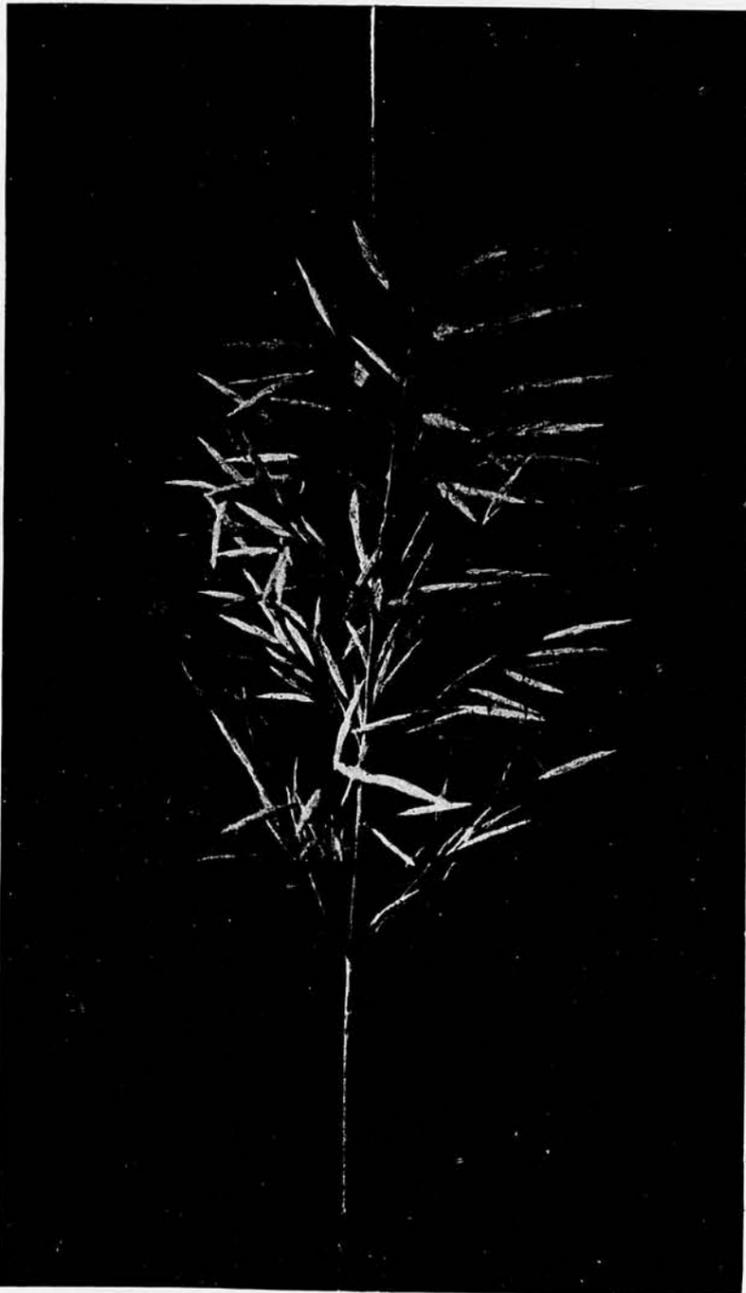


PLATE VI.—Bromus inermis; panicle in full bloom.

grass, and Hungarian brome-grass has made possible widespread deception in the sale of seed of the two latter species. The unlikeness of the plants of the three species is such that the confusion need not easily occur where they are seen growing in the field.

Bromus inermis is a perennial species, growing in dense clumps, which increase in size through the growth of underground stems or root stocks, as illustrated in Plates IV and V. Bromus secalinus, being an annual, is devoid of the system of underground propagation stems, and has simply a

with the rays projecting equally in all directions from the main axis when it is in full flower (Plate VI), while the panicle of cheat is looser, and nodding, and frequently more or less one-sided. (Plate VII.) When the cheat panicle is quite young it has somewhat the erect habit of Bromus inermis in the same stage. (See Plate VIII.) With the development of the head, however, the latter becomes nodding, and at maturity, when the seeds are ripe, presents the appearance as seen in Plate VII. Bromus inermis, on ripening, may retain the open habit of the flow-



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ering period shown in Plate VI. Or, the rays may grow closely appressed against the central stem and upright. This latter is rather the more common type. (See Plate IX.)  
(To be continued.)

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Think not that thy word and thine alone must be right.—Socrates.

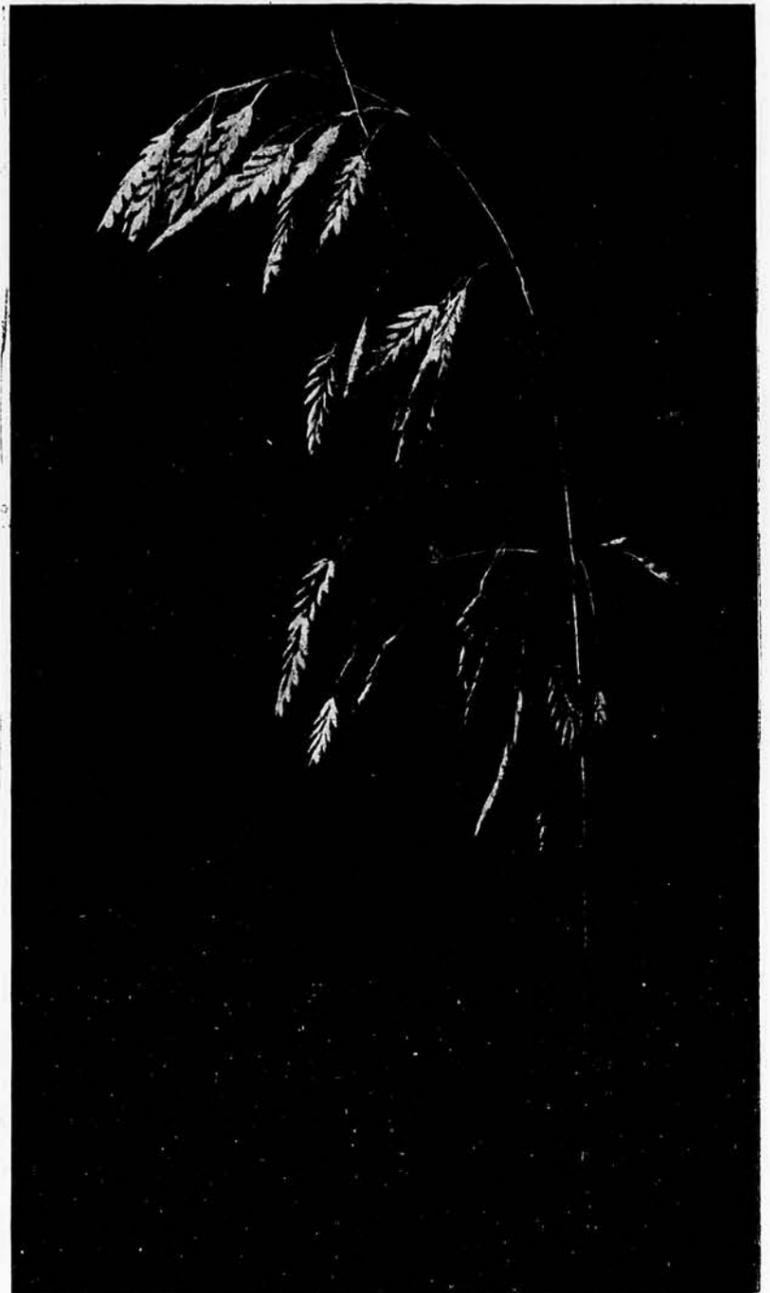


PLATE VII.—Bromus secalinus. Mature panicle bearing ripe seeds. The panicle in full flower presents substantially the same appearance. Note the drooping, nodding habit of the spikelets as compared with Plate VI.

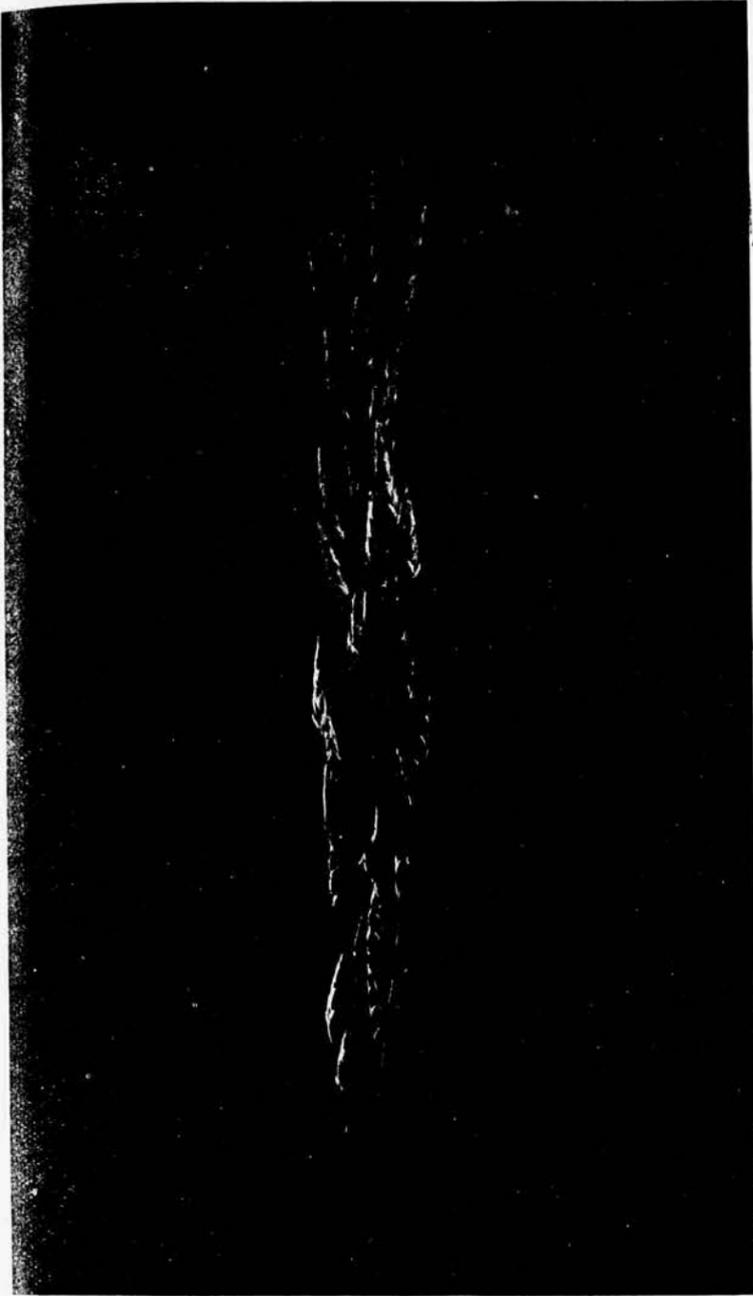


PLATE VIII.—Bromus secalinus. Young panicle with the rays not yet spread.



PLATE IX.—Bromus inermis. Mature panicles bearing ripe seeds. Two common types, an open spreading form (left), similar to Plate VI, and a dense, closely compressed type (right).



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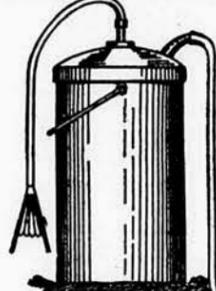
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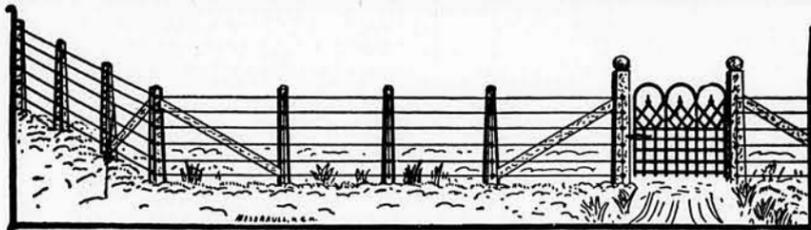
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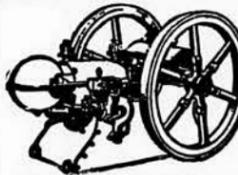
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It is like Castor Oil, Glycerine, or other Laxatives that simply lubricate the Intestines for transit of the food stopped up in them at that particular time.

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When there's love at home.

In the cottage there is joy,  
When there's love at home,  
Hate and envy ne'er annoy,  
When there's love at home;  
Roses blossom 'neath our feet,  
All the earth's a garden sweet,  
Making life a bliss complete,  
When there's love at home.

Kindly heaven smiles above,  
When there's love at home;  
All the earth is filled with love,  
When there's love at home.  
Sweetly sings the brooklet by,  
Brighter beams the azure sky,  
Oh, there's one who smiles on high,  
When there's love at home.

Jesus, show thy mercy mine,  
Then there's love at home;  
Sweetly whisper, "I am thine,"  
Then there's love at home.  
Source of love, thy cheering light  
Far exceeds the sun so bright—  
Can dispel the gloom of night,  
Then there's love at home.

—Author Unknown.

### Poor People.

CORA BULLARD.

Poverty is not an accident which any clever economist can arrange or remove. Poverty is part of the mystery of human economy, as is sin, as is blindness. All providences have their meaning. Poverty has its divine agency. The reformer who takes down his instrument with the view of sweeping poverty off the face of the globe, is not a reformer but a narrow-visioned philosopher. A civilization without poverty would be lacking in one of its dynamizing elements. Poverty sends the world back to its center to be recharged and regenerated.

There is a mystery in poverty not to be laughed at, quickly dispelled, or easily mitigated. We can find no multitude in which there is not poverty and affliction—a solemn circumstance is this. Wherever we go we carry sorrow and affliction with us. Sometimes it is borne silently, most of us have some secret or unspeakable pain; every heart knows the bite of its own hunger, and every heart knows its own bitterness. Poverty sometimes lets us out into life's larger liberties. It is possible for poverty to be true wealth. In our measurement of wealth, we are sometimes deceived by nearness and bulk. We are prone to take too limited a view of the social situation, oftentimes we are mistaken in the belief that if we have the money with which to buy things, we may therefore possess them, not understanding that mere money can never constitute true proprietorship. Money buys transient rights; money buys lands, but can not buy the landscape. He holds the title deed who really and truly loves the estate.

It is a matter of minor importance as to just how much luggage we have at hand when we reach our final abiding place. Yet we admire those who have a great deal of luggage. It is a kind of hotel standard, the landlord seeing so much baggage is sure his bill will be paid. We are more or less given to luggage-worship. All these fields of ours are but so much baggage, our houses, and our furniture are in themselves but so much luggage, they amount to such and such a quantity of impedimenta, that is all if they do not make us better, richer in heart or wider in mind. The matter of vast importance is, what shall we do when we have lost our luggage? What are we ourselves? Pitiable indeed is the sight of a man who owes all his influence to his money. Sad is it to know that if he were divested of his property there would be no one to listen to him, no one to look to him for advice, no one to heed him in passing, no one to care for his comfort, no one to shed a tear beside his grave. It is a tragic thing when a man's furniture is greater than himself. When the house is greater than the tenant, the outward sign and figure serves only to enlarge the irony of the emptiness

of that which is within. The true primaries of life are as often found up the garret stairs and through rude doors, as up the flight of marble steps and behind silken portieres. Character is wealth, character is destiny, and character is altogether independent of circumstances. A man is not necessarily wise because he is destroyed by poverty. It's a loose indiscrimination that regards all rich men as bad, and all poor men as good. There are rich men who are sweet and humble and poor men who are intolerable in their vanity. A man is not necessarily a bad man because he has a great income. A man is not necessarily a good man because he has no income at all, and because he is so crippled that he can never earn his daily bread, but has to be a pauper all the days of his life. Incapacity and goodness are not interchangeable terms.

Who, then, are the really poor? The man in the garret who loves his wife and little ones, who labors honestly for their support and has no ambition beyond the kiss of home? The woman who plants vines and flowers around the door of the home that has one room and a lean-to, sweeps and garnishes it, and waits at eventide, with a love-light in her eyes, for the return of her lord and master, from his day of toil? Is it the woman with health in her limbs, sunshine in heart and a cot for a hearthstone that is poor? Is it the man who has clean hands, and honest heart, who works hard and sleeps soundly that is poor? No, oh, no. He is wealthy who wants little. He is rich whose necessities are few, and he is a poor man, who, being a multimillionaire at the bank, wants the next field. Cupidity can not be content, greed is always starved, and avariciousness lays down its head upon a pillow of thorns.

### How to Cook Eggs.

Baked Eggs.—Break into a buttered dish the eggs, being careful that each one is whole. Put a little butter on each. Salt and pepper. Bake in oven until whites are set. Serve on buttered toast.

Egg Timbales with Tomato Sauce.—Without separating, beat six eggs very light. Add one-half teaspoonful of salt, a dash of pepper, a few drops of onion juice and one teaspoonful of chopped parsley, with one and one-half cupfuls of rich milk. Stir till well mixed, then turn into buttered timbale molds, set on folded paper in a pan of boiling water. Cook about twenty minutes, turn from the molds, and serve surrounded by tomato sauce prepared as follows: Add two level tablespoonfuls of flour to two tablespoonfuls of melted butter and one-fourth teaspoonful each of salt and pepper. When frothy, add gradually one cupful of strained tomato juice. Cook for three or four minutes after the sauce boils, stirring constantly.

Eggs and Cheese Salad.—Line a salad dish with fine crisp lettuce and cover with a layer of sliced hard boiled eggs. Sprinkle with grated cheese and cover with mayonnaise dressing thinned with sweet cream. Alternate in as many layers as necessary for the desired amount having the grated cheese on top.

Savory Eggs.—6 eggs, 3 tablespoons of chicken gravy, enough toast, from which the crust has been pared, to cover the bottom of a flat dish; anchovy paste, 1 tablespoon of butter. Melt the butter in a frying pan, and, when hot, break into this the eggs. Stir in the gravy, pepper and salt to taste, and continue to stir very quickly, and well up from the bottom, for about 2 minutes, or until the whole is a soft, yellow mass. Have ready in a flat dish the toast, spread thinly with anchovy paste. Heap the egg upon this, and serve before it has time to harden.

Egg Fillets.—Break six eggs into a bowl, sprinkle them with a level teaspoonful of salt and saltspoonful of

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white pepper and beat just enough to mix the whites and yolks; add two tablespoonfuls of sweet cream, turn into a buttered tin pan and run into a hot oven for five minutes, or until firm. Prepare a light pancake batter by mixing together one cupful of flour, sifted with a teaspoonful of baking powder, a pinch of salt and dusting of paprika, two egg-yolks beaten into a third of a cupful of ice-cold sweet milk, a tablespoonful of olive oil and one of lemon juice, and the stiffly-whipped whites of the two eggs. Cut the baked egg mixture into long, narrow fillets, dip each of them into the batter and lay them into a buttered frying pan, and fry until a delicate brown on both sides. Serve on a hot dish garnished with curled parsley or celery plumes.—Good Housekeeping.

**Egg Salad.**—Rub the inside of a salad bowl with a slice of onion, then heap into the bowl cleaned endive and watercress, adding a few sprigs of green parsley and chervil; lay three hard-boiled eggs, shelled, in this nest. At the table dress with vinegar, olive oil, paprika and salt. When serving, allow half an egg to each guest.

much—neither negligent nor stiff? All these things deserve a degree of care, a second-rate attention; they give an additional luster to real merit. My Lord Bacon says that a pleasing figure is a perpetual letter of recommendation. It is certainly an agreeable forerunner of merit and smoothes the way for it.

**Disorderliness.**  
GRACE WILLIS.

Mrs. Peckham sighed. She picked up an apple core from the arm of the Morris chair, and two magazines from the floor beside it, putting the magazine on the library table in the next room, and carrying the apple core to the kitchen.

When she returned, it was with the carpet sweeper. Wilma had been drawing threads for some drawn work, and the threads had blown off, and were scattered over the carpet.

A pair of white gloves, and an elaborate bead purse lay on the piano keys, and a few sheets of music dangled over the edge of the bench.

"Is it always that way?" asked Aunt Hettie.

"Yes, Wilma is rather disorderly," said Mrs. Peckham with another sigh. "You ought to see her room! I have tried to teach her, but she hasn't a sense of order."

"Sense of order!" sniffed Aunt Hettie. "Sense of nonsense! Any girl can learn to pick up her own things."

Aunt Hettie was a bit severe; but, after all, she was right. Any girl can learn to be orderly, and every girl should. "A place for everything and everything in its place." Many exasperating delays would be avoided if we knew just where to look for things.

Many and many a step would be saved for the tired mother if the daughter of the house picked up after herself. "Martha is so capable, and a splendid housekeeper," says a mother with pride, "but she doesn't pick up the loose ends."

"It isn't very much fun to clean up after somebody else. I'd rather do it myself," the mother decides, "than to wait on Martha."

Said St. Paul, "Let all things be done decently and in order."—Pilgrim Visitor.

**The Young Folks**

**"The Man Land."**

Little boy, little boy, would you go so soon,  
To the land where the grown man lives?  
Would you barter your toys and your fairy things  
For the things that the grown man gives?  
Would you leave the haven whose doors are set  
With the jewels of Love's alloy  
For the land of emptiness and regret?  
Would you go, little boy, little boy?

It's a land far off, little boy, little boy,  
And the way it is dark and steep;  
And once you have passed through its doors, little boy,  
You may not even come back to sleep.  
There is no tucking in, no good night kiss,  
No mornings of childhood joy.  
It's passion and pain you give for this,  
Think well, little boy, little boy!

Little boy, little boy, can't you see the ghosts  
That live in the land off there;  
The "broken hearts," "fair hopes," all dead;  
"Lost faith" and "grim despair?"  
There's a train for that land in the after years,  
When old Time rushes in to destroy  
The wall that stands 'tween the joy and the tears.—  
So don't go, little boy, little boy!  
—Maynard Waite, in the May Metropolitan Magazine.

**President Roosevelt's Maxims.**

Jacob Rees, who wrote that splendid work on the life of Theodore Roosevelt, made public a few days ago, for the first time, the four maxims which has been the foundation of his policy. They are as follows:

"First—Fit yourself for the work God has for you to do in the world and lose no time about it.

"Second—Have all the fun coming to you.

"Third—Go ahead, do something and be willing to take responsibilities.

"Fourth—Learn by your mistakes. "No man can drive the President. He is always right to himself in his own judgment. He may do wrong, but I have yet to see him, and if he does, he will learn from his errors."

**Your Personal Appearance.**

Lord Chesterfield was not all he ought to have been in many respects, but he did not neglect his duty towards his son in the way of advice, and it was good advice that he gave. The following is about personal cleanliness:

As you must attend to your manners, so you must not neglect your person, but take care to be very clean, well dressed and genteel; to have no disagreeable attitudes nor awkward tricks, which many people use themselves to, and then can not leave them off. Do you take care to keep your teeth very clean, by washing them constantly every morning, and after every meal? This is very necessary, both to preserve your teeth a great while, and to save you a great deal of pain. Mine have plagued me long, and are now falling out, merely for want of care when I was your age. Do you dress well, and not too well? Do you consider your air and manner of presenting yourself enough, and not too

**Club Department**

**OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.**

President.....Mrs. May Belleville Brown, Salina  
Vice-President.....Mrs. L. H. Wishard, Iola  
Cor. Secretary.....Mrs. N. I. McDowell, Salina  
Rec. Secretary.....Mrs. W. D. Atkinson, Parsons  
Treasurer.....Mrs. H. B. Asher, Lawrence  
Auditor.....Mrs. Grace L. Snyder, Cawker City

**Our Club Roll.**

- Excelsior Club, Potwin, Kansas, (1902).
- Women's Literary Club, Osborne, Osborne County, (1902).
- Women's Club, Logan, Phillips County (1902).
- Domestic Science Club, Osage, Osage County (1888).
- Ladies' Social Society No. 1, Minneapolis, (Ottawa County) (1888).
- Chalitto Club, Highland Park, Shawnee County (1902).
- Oultus Club, Phillipsburg, Phillips County (1902).
- Literateur Club, Ford, Ford County (1902).
- Star Valley Women's Club, Iola, Allen County (1902).
- West Side Forestry Club, Topeka, Shawnee County, Route 8 (1902).
- Fortnight Club, Grant Township, Reno County (1902).
- Progressive Society, Rosalia, Butler County (1902).
- Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
- The Lady Farmer's Institute, Marysville, (Marshall County) (1902).
- Women's Country Club, Anthony, Harper County.
- Richardson Embroidery Club, Madison, Greenwood County (1902).
- Friends Reading Club, Cawker City, Mitchell County (1902).
- Cosmos Club, Russell, Kansas.
- The Sunflower Club, Perry, Jefferson County (1902).
- Chaldean Club, Sterling, Rice County (1904).
- Jewell Reading Club, Osage County.
- The Mutual Helpers, Madison, Kansas (1906).
- West Side Study Club, Delphos (1906).
- Domestic Science Club, Berryton, Shawnee County (1906).
- Mutual Improvement Club, Vermillion, Marshall County (1902).
- Clubs Club, Columbus, Kansas (1897).
- Centria Reading Circle, Nemaha County.
- The Ladies Mutual Improvement Club, Crawford County (1905).

**Household Economics in Club Work.**

Mrs. Mary Moody Pugh, of Omaha, one of Nebraska's prominent club women writes of household economics in club work as follows:

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References—The Editor of this paper.

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admit that in a sense the name is a misnomer and while intended to be broad enough to include all phases of home life and interests, one often gets the impression it has to do only with household economy and the servant problem. By giving to the housekeeper an intelligent study of her work, showing her that a knowledge of sanitation and hygiene, food values, decoration, these, the manifold interests of the home, become a science to be studied and loved rather than drudgery to be avoided. Women are becoming more and more willing to listen to the voice which says: That which elevates citizenship must find its source and abiding place in the home, and he whose fingers are on the pulse of the nation tells us our civil life, in the long run, will rise or sink as the average family is a success or a failure. Let us add a fourth R to our system of education—that of right living—and bring it about by club study and programs, by personal effort and a course in the household economics, through the raising of dietetic standards and free kindergartens. By these means woman would be fitted for the fullness of life. She would eliminate drudgery and much of the sickness and unhappiness caused by complex living which would create the sought-for and yet unfound simplicity of living which would grant to every woman time for leisure and time for pleasure. The members of the General Federation of Women's Clubs believe that home-making should be regarded as a profession, and that the most profitable and the most interesting study for woman is the home, wherein center all the issues of life, and whose problems may be made of no less cultural value than the study of literature or history. The interests which center around the home are, after all, the most vital, and however far afield club women may wander, they find themselves reverting to the commonplace questions of food, clothing and shelter.

**What the Woman's Club Means to Mankind.**

Will you point me to any good work in progress to-day in which the woman's club is not in some wise a factor, and usually a potent factor, either through its individual members, a single organization, or the State or General Federation? A million federated women in the United States are throwing their concentrated and effective endeavor into the cause of education, of philanthropy, the promotion of art, science, philosophy, economic and social reform, industrial betterment, municipal and civic progress. And, thank Heaven! most of these women are happy home women, whose husbands and children in thousands of cases are in thorough sympathy with the woman's club work, often, indeed, sharing it with her.

For this is the best part of the club to-day, that it in no wise usurps home loves or happiness, in no way crowds or narrows household and family interests. Rather, it broadens and deepens these, making them truer and sweeter, bringing richer and finer results in every phase of our domestic life, exalting marriage, setting the home on a loftier pinnacle than it ever occupied in the past.

Here we have taken a bare glance at the history and scope of women's clubs. But read for yourself the record of their work made manifest in such substantial facts as free kindergartens, mother's meetings, settlement houses, and lyceums in the congested quarters of cities, vacation schools, play-grounds for children, gardens for the poor, hospitals and "homes," sloyd plants, public and traveling libraries, industrial and model schools and farms for the mountain and backwoods people, prison reform, curfew enactments, children's courts and reformatories, village improvement, university extension, social purity work, marriage and divorce laws, child labor legislation, the promotion of public health and temperance. Where does the noble category find a finish?

When you have thoughtfully pondered the record, you can be no longer in doubt as to what the woman's club means to mankind.—Leonora Beck Ellis in *The Farmers' Wife*.



MISS ADELAIDE NICHOLS

that period of its terrors. Women who are troubled with painful or irregular functions should take immediate action to ward off the serious consequences and be restored to health and strength by taking

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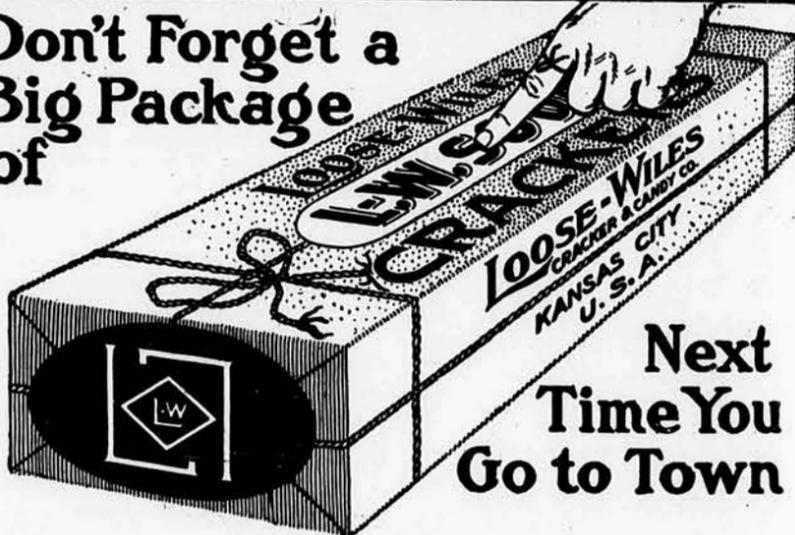
Miss Adelaide Nichols of 224 West 22nd Street, New York City, writes:—Dear Mrs. Pinkham:—“If women who suffer would only rely upon Lydia E. Pinkham's Vegetable Compound their troubles would be quickly alleviated. I feel greatly indebted for the relief and health which has been brought to me by your inestimable remedy.”

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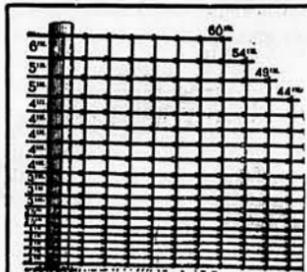
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**Dairy Interests**

**Scotch Experience With a Milking Machine.**

We publish the subjoined excerpt of a lecture by Alexander Miller, Huntly Farm, Dundee, Scotland, before the Glasgow and West of Scotland Agricultural Discussion Society:

"It is fully ten years since I first began to use a mechanical milker.

"The 'Murchland' was my first venture, and I worked it continuously for some years, with varying success. It milked the cows fairly well, but it was so troublesome to keep clean that it created labor rather than saved it. Then, it had a peculiar effect on the cows' teats. Working by continuous suction, it caused the skin of the teat to adhere to the metallic lining of the cup, and thus interfered with the blood circulation, so that when the cups were taken off the teats were often blue. However, it worked away quietly, and never spoke back and for that I liked it—so I kept it going, hoping against hope that something better would turn up. When at last the Lawrence-Kennedy machine appeared, with its pulsating movement, I saw at once that it solved one working difficulty—the interference with the blood circulation. The 'catch' and 'relieve' of the pulsating movement—so closely resembling the action of the calf's mouth sucking—made it evident that there would be no more blue teats, at any rate, and the rubber tubing of the Lawrence-Kennedy machine looked as if it would be much easier kept in order. So I had it fitted up experimentally at Huntly Farm, and after three months' trial of it there, I was so well pleased with its work that I ordered an installation for my other farm, and for almost two years now I have had this machine working twice daily on two separate farms, milking twelve cows at a time on the one farm, eight at a time on the other. I have thus been having experience in duplicate form, and, having been for years in the habit of keeping an accurate note of the milk brought from the out farm, I am in a position to compare results with years of hand milking. Taking the year ending 15th November last, and comparing it with the outturn of 1904, with the same number of cows milking, namely, fifty, and fed and treated in pretty much the same manner, I find there is a balance in favor of the machine period of 187 gallons. When I compare the average of the four

years before 1904, the balance is 196 gallons. This is not very much per cow if spread over twelve months, but it is on the right side. I am not able to give such accurate figures for Huntly, as for a time some were milked by hand, and the milk was all totalled together, but I can compare the outturn of butter during twelve months of machine milking and twelve months of milking by hand, and here again the outturn is slightly in favor of the machine period. When I made my calculations previous to ordering an installation, I did so on the supposition that possibly the machine might do almost as well as hand milking, but the result has bettered my expectation. Then, I find another point gradually coming into prominence. The cows actually thrive better when machine milked. Almost all take kindly to it from the very first. It is so regular and gentle in its action that even the most nervous cow soon forgets her nerves. The cow knows exactly what to expect when the machine is set going at her teats, but it would be a very knowing cow that could tell beforehand what to expect from a band of hand milkers, especially if there had been some quarrel in the kitchen or on the way to the sheds. Of course, with two separate installations, rendered necessary by the distance between the farm steadings, I am not favorably placed for working with the utmost economy. I have two engines to keep going where one could suffice, and I have one operator and one stripper more than would be necessary if all the stock were housed together, but my experience enables me to see that three operators working nine machines, and two strippers, would easily milk 150 cows in an hour and a half. There is thus a saving of ten milkers. Again, my coal output for the year is £15 more, and repairs and renewals total £8 7s, so that there is a very large balance to make good depreciation of plant and meet the interest on the first cost."

**Improve Your Dairy—When, How, and Why?**

In regard to the first proposition, I would say now, no other time so favorable. We have no promise of the future and we can not afford to delay so important a matter. This is an age of specialties and the man who wants to be a dairyman, must make and have the improvements.

The second proposition is by weeding, breeding, and feeding. The day for dual purpose cows in a dairy is past. We would as soon think of an undertaker using a dray wagon for a hearse as for a man to engage in the dairy business with any of the beef breeds for a conglomeration of all the breeds for a herd. Weed them out, and if you find you have not a dairy cow at all, clean out the whole thing, whitewash your barn and start over again.

You know the many methods of weeding; don't be afraid to cull close. One good cow that pays a profit is worth a barn full that runs you in debt.

Next, breeding. Study the question closely and don't let a few dollars induce you to place a male at the head of your herd that will bring discredit to it. Always seek the best; watch the outcome of your mating and be sure you get desired results. Like does beget like and no mistake. Take all points into consideration; disposition, form, capacity, and by no means discard real beauty, because you can breed what you want as sure as you can whittle a stick.

Next is feeding. Do your own feeding; balance your own ration after a careful study, and feed judiciously, not waste your feed on a cow out of season. Do as your wife does by you when you are not working hard; puts you on two meals a day. Much of the profit of all labor may be thrown away by not having a knowledge of a cow's capacity and ability to make returns. You must not blame the cow for consuming twice as much daily as her need requires, or that she can return your profit on. It is your lack of knowledge of her need.

The third, why? Because the money is in it and you need the money. I

**Lost Strayed or Stolen—One Cow**

That is about what happens each year for the man who owns five cows and does not use a Tubular cream separator. He loses in cream more than the price of a good cow. The more cows he owns the greater the loss. This is a fact on which Agricultural Colleges, Dairy Experts and the best Dairy men all agree, and so do you if you use a Tubular. If not, it's high time you



ould. You can't afford to lose the price of one or more cows each year—there's no reason why you should. Get a Tubular and get more and better cream out of the milk; save time and labor and have warm sweet skimmed milk for the calves. Don't buy some cheap rattle-trap thing called a separator; that won't do any good. You need a real skimmer that does perfect work, skims clean, thick or thin, hot or cold; runs easy; simple in construction; easily understood. That's the Tubular and there is but one Tubular, the Sharples Tubular. Don't you want our little book 'Business Dairy men,' and our Catalog A.165 both free? A postal will bring them.

**The Sharples Separator Co.**  
West Chester, Pa.  
Toronto, Can. Chicago, Ill.

**World's Biggest Creamery on Buying  
CREAM SEPARATORS**

The Beatrice-Continental Creamery Companies gather the cream from more than 50,000 Farm Cream Separators, nearly all of which are DE LAVAL machines, being by far the largest creamery concern in the world. Their advice may well be accepted as the highest possible authority by every intending buyer of a cream separator:

Topeka, Kans., March 26, 1907.

"We are sorry to note quite a tendency to buy cheap separators. If the farmer properly understood what he was doing he would not buy cheap machines from a 'mail order' house or anybody else. This is a case where the cheapest soon costs most and the best least, in the long run. These cheap separators only last a year or two and cause lots of trouble while they do last, whereas a good machine like the DE LAVAL will last ten to twenty years with proper care. However, the ability to RUN A HEAVY CREAM and skim clean is of even greater importance. Cheap 'mail order' machines skim cream of about twenty per cent fat. DE LAVAL machines easily skim forty per cent cream. There is a big difference of course in the cost of transportation, and a still greater difference in the QUALITY of the cream when it arrives at the creamery. The thin cream will not keep sweet, especially in hot weather, and must frequently be made into second grade butter. The average farmer using a cheap separator loses from \$50 to \$60 annually through this cream difference alone—usually to save \$25 or \$30 in first cost of the separator."

THE CONTINENTAL CREAMERY CO.,  
W. F. JENSEN, Vice-Pres. & Gen. Mgr.

**THE DE LAVAL SEPARATOR CO.**

Randolph & Canal Sts., CHICAGO.  
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9 & 11 Drumm Street, SAN FRANCISCO.  
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75 & 77 York Street, TORONTO.  
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**DO YOU KEEP COWS?**

If So Write Us and We Will Tell You How to Make Them Keep You! Our Method

will make you a clean saving each year over what you have been making of \$30.00 on two cows, \$75.00 on five cows, \$150.00 on ten cows, \$300.00 on twenty cows.

**This is An Opportunity**

that you cannot afford to overlook. Just think what it means to you. The claim made above as to the additional profit you will make is backed up by letters from professors in the several Government Experiment Stations (absolutely the best authority in the world). It is all figured out so plain that you can readily understand it.

**We Give More Information**

In our catalog in regard to the saving by the use of a cream separator than was ever printed before. We show you the loss by the panning system, or the gain by the use of a Great Western, the increased value of butter where the cream is separated by the Great Western; the increased value of sweet skimmed milk for feeding purposes over sour milk; the reasons why it is possible to lose more than one-half of the cream without the use of a cream separator. In fact our catalog treats all these subjects in a clear, decisive way, touching on subjects that very few dairymen have ever thought of, and if you are milking two or more cows you should send at once and get this book of information. THE

**Great Western Cream Separator**



is the only machine made with a low tank and a high crank. The tank is only 3 feet 4 inches high, therefore, it is not necessary to stand on a box, chair or step-ladder to fill it. Crank is exactly right height to make machine turn easy.

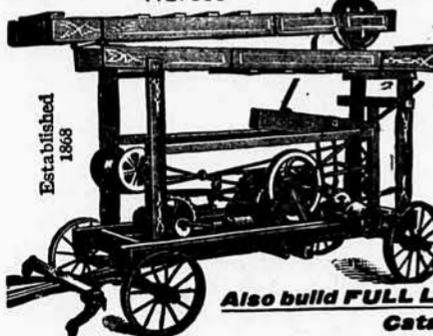
**BALL BEARINGS** are used in all of the main bearings of this machine reducing the friction so that the machine is guaranteed to run easier than any other separator on the market. The spiral gear is made of phosphor bronze, the best and most expensive metal for this use. Gears run in spray of oil.

**THE SKIMMING DEVICE** is made on scientific principles and the catalog shows a large illustration, making it plain why the skimming device will skim closer than any other machine on the market.

**OUR CATALOG** is the most handsome cream separator catalog ever issued; shows the machine exactly as it is made and finished, gives many illustrations of various important parts of the machine, taking each part up and describing it fully. We have revolutionized the cream separator business and the catalog tells you what we have learned in 15 years of experience. If you are milking two or more cows write us at once, exactly as follows: "Send me catalog No. 5050 of your Improved Great Western Separator." It will be mailed at once FREE. It explains our terms, tells how to make more money out of your cows. Don't buy a separator of any kind or milk again until you send for our catalog.

SMITH MANUFACTURING CO., No. 158 Harrison St., Chicago, Ill.

FIG. 300



Established 1868

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AURORA, ILL., U. S. A.  
CHICAGO, ILL. DALLAS, TEXAS,

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**BARRED PLYMOUTH ROCKS**—Pure Bradley strain. Eggs from pens \$2 per 15. R. Harmstrom, Route 6, Newton, Kans.

**WHITE P. ROCK EGGS**—\$1 per 15, \$4.50 per 100. Mrs. Lizzie Griffith, R. 3, Emporia, Kans.

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**BLUE BARRED ROCKS**—Large, vigorous, farm raised stock; \$1.50 per 15; \$3 per 50; \$5 per 100. Minnie K. Clark, Route 9, Lawrence, Kans.

**BARRED ROCK EGGS**—\$1 per 15, \$5 per hundred. Mrs. R. L. Parker, Lincoln, Kans.

**BARRED PLYMOUTH ROCKS EXCLUSIVELY**—Eggs \$1 per 15, \$1.50 per 30, \$4 per 100. T. B. Wilson, Route 7, Osage City, Kans.

**BUFF ROCKS EXCLUSIVELY**—Farm range. Eggs \$4 per 100; \$2.50 for 50, and 75 cents for 15. Mrs. W. Lovelace, Muscotah, Kans.

**BARRED PLYMOUTH ROCKS** as good as the best. Eggs 50 cents for 15. Write D. N. Hill, Route 5, Lyons, Kans.

**FOR SALE**—Pure-bred B. P. Rock eggs. 75 cents for 15 or \$3.50 per hundred. Hillcrest Fruit and Poultry Farm, Address A. C. Merritt, North Topeka, Route 4; Ind. Phone 4851.

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Many first prize winners in Kansas and Oklahoma. 12 females scoring 91 to 94½ by McClave, Emery & Heimlich. Hens and eggs to order. Pedigreed Collies from imported prize winners. Fine young stock for sale. Mrs. J. T. Woodford & Son, 3600 E. Central, Wichita, Kans.

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Pullet-mating pen headed by a 98½ point cockerel. Cockerel-mating headed by a 98 point cock. The females score from 90 to 98½. Barring extra strong. Eggs \$1.50 per 15, \$7.50 per 100. Mrs. Chas. Osborn, Eureka, Kans.

**EGGS! EGGS!**

I feel confident from the Steel Blue Barred Plymouth Rocks will be produced some prize-winning chicks for you, whether you wish them for show birds or on the farm. Let me have your order and the chicks will speak for themselves. It costs no more to raise fine birds than inferior ones, and the extra small expense of starting should not be considered for the results and satisfaction you would get out of this famous strain would overcome all. Try them. Write for catalogue, it's free. JOE B. MOORE, originator and breeder of the renowned Steel Blue Barred Plymouth Rocks, Mexico, Mo.

**EGGS! EGGS! EGGS!**

Toulouse Geese eggs, \$1 per sitting. Rouen and Pekin duck eggs, 18 for \$1. Muscovy duck eggs, 9 for \$1. Bronze turkey eggs, 9 for \$2. Peacocks, Barred and White Plymouth Rocks, Houdans, Buff Cochins, Silver Spangled Hamburgs, Cornish Indian Games, Buff Orpingtons, Rhode Island Reds, Brown, Buff and White Leghorns, Buff, White and Silver Laced Wyandottes, Pearl and White Guineas, Golden Seabright Bantams, Buff Cochins Bantams. Eggs 15 for \$1. Also sell by the 100. All kinds of fancy pigeons for sale. Also hunting dogs. Satisfaction guaranteed. Write for circular. D. L. Bruen, Platte Center, Neb.

**BUFF PLYMOUTH ROCK EGGS.**

I have bred Buff Rocks exclusively for six years; have purchased eggs and birds from the best blood I could find in the west and now have as fine a lot of birds as I ever saw. I took both first and second on pen at the Republic County fair last fall. Eggs from 1st prize birds \$2.50 for 15, \$6 for 45, \$10 for 100. Eggs from 2d prize birds \$1.50 for 15, \$3.75 for 45, \$6 for 100. H. M. STEPHENS, Mundan, Kans.

**White Plymouth Rocks EXCLUSIVELY**

**Good for Eggs. Good to Eat. Good to Look At**  
W. P. Rocks hold the record for egg laying over every other variety of fowls; eight pullets averaging 289 eggs each in one year. I have bred them exclusively for twelve years and have them scoring 94 to 96½, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay expressage to any express office in the United States. Yards at residence, adjoining Washburn College. Address THOMAS OWEN, Sta. B. Topeka, Kans.

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**INCUBATOR EGGS** from prize-winning White Rocks and White Wyandottes at \$5 per 100. W. L. Bates, Topeka, Kans.

**BROWN'S WHITE WYANDOTTES**—Ahead of everything; stock for sale; eggs in season. I have the English Fox Terrier dogs. Write me for prices and particulars. J. H. Brown, Clay Center, Kans.

**WHITE WYANDOTTES**—Pen No. 1, score 94 to 96½ by Atherton. Eggs \$2 per 15. 100 others bred to lay high scoring eggs \$1 per 15; \$4 per 100. J. L. Moore, Eureka, Kans.

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**Hammer's White Wyandottes**

Eggs from first pen \$2 per 15; from second pen \$1.50; from flock at large \$1 per 15; \$5 per 100. My strain is noted for eggs.

Lewis A. Hammer, Clearwater, Kans.

have milked as steady as Buff Jersey's boy and I say to you, I don't do it for my health, and the best bred cow, and the best fed cow is none too good for me.

Summing it up, improve your dairy, When? Now. How? By weeding, breeding and feeding. Why? Because it will pay.—A. R. S. in Hoard's Dairyman.

**Record of Dairy Cows.**

The value and importance of keeping a record of the milk yield of his cows is very much underestimated by the average dairyman. In an article on this subject C. B. Lane, Assistant Chief of the Dairy Division, United States Department of Agriculture estimates that one-fourth of the dairy cows in the country, or fully 5,000,000, do not pay for their keep, and that probably another one-fourth do not yield any profit. The standard of our dairy cows needs to be raised, and the first and most important step in this direction should be for every dairyman to keep a record of what his cows are doing, so that he can weed out the poor ones. It is a poor plan for him to trust to his judgment in this matter. Mr. Lane believes that the keeping of records with the use of the scales and the Babcock test, combined with better care and feed, would in many cases be the means of increasing both the production and the profit 100 per cent, and this with little expense. The article gives directions for keeping records and also contains a number of high records made by cows of various breeds.

**The Poultry Yard**

CONDUCTED BY THOMAS OWEN.

**Poultry Notes.**

One of the great causes of mortality among young chicks at this time will be the sudden rain-storms that come and drench them before they get under cover. A watchful lookout should be kept on storms and on the first approach of one the chicks should be gotten under cover where they can not get wet. Sometimes a lot of chicks may get caught unavoidably and get thoroughly chilled. It would be well to take such chicks, wrap in warm cloths and put near the stove till they get thoroughly warm and dry. We have known of chicks that appeared to be dead, to be revived by this method. But if ordinary care is taken there is no reason why they should get into such a condition.

If chicks are brooded under hens, lice are bound to trouble them and the chicks will soon droop and die if the lice are allowed to bother them. The hen should be thoroughly dusted with insect powder as soon as she is through hatching. This will keep lice away from the chicks for a week or so. At the age of two weeks they should be examined again and if lousy they should be greased with carbolated vaseline, on the head and under the wings. At the same time the hen should be dusted again with insect powder. It is not well to grease the hen, as that proves at times to be fatal to the chicks.

It doesn't pay to be niggardly with the feed of growing chicks. From the time they are hatched till they are fully grown, they should be fed all they will possibly eat. They should be pushed from start to finish. By this we do not mean that the feed should be thrown to them indiscriminately and allowed to lay all over the ground to be trampled under foot; but that the chicks should be fed all they could eat at regular intervals. When a few days old they should be fed every hour, and as they grow older, at longer intervals. But they should never be allowed to get real hungry for lack of feed, for a stunted chick never amounts to anything.

Farmers who have no pure-bred poultry on their farms should get a start this spring. There is no kind of

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Here are some facts that will interest you: The Empire Turns the most easily—is practically frictionless;—Is most easily washed—a few simple parts without a cranny or crevice in them;—Gets all the cream, and the highest quality of cream at that;—Is durable—will not get out of order—will cost you practically nothing for repairs. These facts spell dollars for you, if you give them the opportunity.

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Send for our new catalogue and proofs. Ask for our free dairy books too. They cost you *nothing*, but will show you where you can make *dollars*.

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**G O L D**  
**\$1. for 50c**

To reduce our large stock, we will make a special price on the famous Alfalfa King hay-stackers and hay rakes formerly sold by Kingman & Co. If your dealer doesn't have them in stock, write us direct. It will pay you. We also build a complete line of gasoline engines from 2 to 30 horsepower.

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**HAIL INSURANCE**

There is no misfortune that can overtake a farmer that is more disastrous than the loss of his growing crops by hail. According to the Government Reports the entire State of Kansas is right in the center of the Hail Belt. Possibly you have never had a loss by hail, but that is not a guarantee that your crops will escape destruction this year.

If you want the Best Hail Insurance, get a policy in The Grain Growers Hail Insurance Company of Topeka, Kansas. We have been writing the Most Liberal, Up-to-Date Hail Insurance Policy in Kansas for seven years and have never Resisted a Single Loss or had a Single Lawsuit.

This is the only Hail Company in Kansas whose application takes effect as soon as you settle with the Agent.

This is the only Hail Company in Kansas that does not ask the farmer to pay 5 per cent of his own loss.

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All policies guaranteed by legal reserve.

Officers under \$50,000 bond to the State of Kansas.

Methods always open for inspection. Rates low.

Write the Home Office for a copy of "What Our Policy Holders Say of Us," and particulars regarding our "New Features."

Agents wanted in unoccupied territory.

**The Grain Growers Hail Insurance Co.,**  
Columbian Building, Topeka, Kans.

**ALFALFA SEED**  
Kansan grown. Highest award at St. Louis for best alfalfa seed in world. Crop of 1906. Also Cane and Millet, Macaroni Wheat and other Field Seeds in carload lots—less. Write for prices. McBETH & KINNISON, Garden City, Kans.



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## Difficult Breathing

Short breath, fluttering, palpitation, sinking spells are symptoms of a weak heart, struggling to do its work. It must keep the blood in circulation to carry nourishment to make flesh, bone and muscle, and remove the worn-out particles. When it cannot do this, it must have help. Dr. Miles' Heart Cure gives strength to the heart nerves and muscles, and increases the heart action.

"I am glad to say that I am so much improved in health. Dr. Miles' Heart Cure cured me when several doctors failed. I think no other medicine could do for me what Heart Cure has done. My case was bad; bad as it could be at times. I had difficulty in getting my breath, my heart beat so fast at times that I thought it impossible to live without relief; the pain was very severe in my left side, and my nerves was all unstrung. I had almost given up all hope of being cured, and I am sure I would not, if I had not taken the Heart Cure. I take great pleasure in recommending Dr. Miles' remedies to all who suffer with heart disease."

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Dr. Miles' Heart Cure is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails he will refund your money.

Miles Medical Co., Elkhart, Ind

part of water. Nearly all kinds of vegetables are acceptable as food, along with other more solid rations.

The ducklings should not be fed until they are at least 24 hours old; after this time they need feeding four or five times a day while small. The food should be put in troughs and be rather thin when fed.

Any breeder who is raising ducks on a large scale will always use the best incubator obtainable for hatching purposes. This article, however, is intended for those who can only have a few, and for all such raisers, the old-fashioned way will be found most desirable.

For hatching, select the best and oldest of your stock, as the mother duck will be required to keep at her job for four weeks before she will be rewarded.

## The Veterinarian

We cordially invite our readers to consult us when they desire information in regard to sick or lame animals, and thus assist us in making this Department one of the most interesting features of The Kansas Farmer. Kindly give the age, color, and sex of the animals, stating symptoms accurately, and how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply all letters for this Department should give the inquirer's postoffice, should be signed with full name and should be addressed to the Veterinary Department of The Kansas Farmer, Topeka, Kansas, or to Dr. C. L. Barnes, Veterinary Department, Kansas State Agricultural College, Manhattan, Kansas. If in addition to having the letter answered in The Kansas Farmer, an immediate answer is desired by mail, kindly enclose a 2-cent stamp. Write across top of letter: "To be answered in Kansas Farmer."

**Mare with Sore on Shoulders.**—I have a bay mare, 23 years old this spring, that has a sore on her shoulder that does not seem to heal. The sore has matter in it and discharges at times. Kindly advise me what to do for it. F. L. W.

**Stacey, Minn.** Answer.—You will need to remove all the pus from your horse's shoulder before you can expect that it will heal, then use a 3 per cent Zenoleum solution in order to cleanse the part thoroughly, and I believe it will heal all right.

**Enlargement on Cow's Throat.**—I have a 2-year-old half Jersey cow that has a lump on throat just back of jaw bone on left side that is about the size of a hen's egg. I first noticed it about three weeks ago. I would like to know if it is lump-jaw and what to do for it. Soldier, Kans. L. C. L.

**Answer.**—I would suggest that you apply a stimulating liniment over the enlargement on your animal's throat. You can doubtless get the stimulating liniment from your druggist already prepared.

**Fistula.**—I have a brown mare, weight 1,200 pounds, 8 years old, that has been running in corn-stalks and shed all winter. About ten days ago I noticed a swelling on top of withers back of where the collar rests. The lump is about equal on each side and seems quite hard with no soft spots as yet, but seems to be very sore. I have used no treatment as I am afraid of fistula and did not know the treatment for it. Can you advise me? L. R. O. Damar, Kans.

**Answer.**—We are sending you a press bulletin on poll evil and fistulous withers. I would advise you to use a fly blister over the enlargement on the withers and see if you can't get the fistula, which is probably started, absorbed. If you can not then it will be necessary for you to have it opened and follow the directions in the press bulletin.

**Mare Out of Condition.**—I have a bay mare, 6 years old, in foal that will bring a colt in about six weeks. She weighs about 1,300 pounds and is in fair shape. She has a swelling under her belly about eight inches across and ten inches long and about the center of her belly. It is not so bad at night as when turned out all day or worked in the mornings. She has been this way for about a week. What can I do for her, and will it hurt her to be worked?

**What is good for a horse out of condition that eats well but does not fatten? Its hide is very tight.**

Hugoton, Kans. A SUBSCRIBER.

**Answer.** I think your mare will be all

The Famous Steer RUBY ZENOLEUM International College Champion, 1906, Owned and Fed by Nebraska Experiment Station

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No other animal dip and disinfectant has so many real uses about the cattle-barn and feed-lot. It is valuable to the farmer and stockman, the beef-grower and the dairyman. Zenoleum kills lice, cures mange and all skin diseases. Heals sores and wounds. Stops contagious abortion. Prevents calf-cholera and scours. Its use makes clean surroundings.

# ZENOLEUM

Destroys disease germs and prevents contagion. One gallon goes a long way with the average herd. Perfectly healthy animals are better producers and make greater profits. Zenoleum keeps stock well.

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**AT ALL DEALERS**—Small size, 25c; Quart, 50c; Half gallon, 90c; One gallon, \$1.50; Five gallons, \$6.25—or we will deliver one gallon or more, charges paid, to your station.

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**64 Page Booklet**

Zenoleum Veterinary Adviser written by Agricultural College Authorities. Positively Free on the asking. Send a postal quick.

**The Zenner Disinfectant Co.**  
161 Lafayette Ave., Detroit, Mich.

## A Shady Transaction

If anybody sold you some lumber and if upon careful examination you discovered that it was really not solid timber but merely short pieces spliced together you would call it a shady transaction. That is about the kind of a proposition you are up against when you buy cut stay fence.

It's really not a first-class, full strength product. About half of its strength is wasted—sacrificed to convenience and speed in manufacture. Our stay wire is NEVER cut. It runs continuously up and down across the fence for many rods without an end, thus preserving and utilizing ALL the strength and service there is in the wire.

**30 Days Approval.** Let us prove to you that Advance Fence is the best made fence on earth. We offer to ship you all you need on 30 days approval. We want you to examine it carefully and compare its construction with other fences. You may stretch up a part or all of it and turn your stock against it. In fact give it any kind of a test you wish.

Then we will let you be the judge—absolutely. If you do not like it send it back and it won't cost you a cent as we will pay freight both ways and refund to you every cent you paid. We know that Advance Fence will please you or we would not dare make this liberal offer.

**We Prepay Freight** and guarantee safe delivery of shipment. You take no risk whatever. Write for our Free Fence Book and Prices.

**Advance Fence Co.,**  
37 Old St., Peoria, Ill.

right if given plenty of exercise. You had better feed your animals that are not doing well considerable oil-meal in the feed. C. L. BARNES.

**Kansas City Live-Stock Market.**  
Kansas City, Mo., April 29, 1907.  
Cattle receipts continued liberal last week, 45,000 for the week, an increase of 12,000 over corresponding week a year ago. The market held up strong and active till Thursday, when it weakened slightly, and closed Friday with some show of dullness, steers 5@15c below the best time early in the week. Choice heifers and cows held steady, medium and common grades a shade lower; stockers and feeders made no improvement during the week, most sales running 35@60c below the highest time two weeks ago, while all kinds of calves broke 75c@1 during the week. The supply to-day is 11,000 head, market a shade lower on steers, other classes killing cattle steady while market on stockers and feeders is stronger than last week. No extra choice steers have been included in the supply for some time, top last week \$6, with good to choice steers selling at \$5.65@6, medium fat steers \$5.25@5.60, only a few steers at \$5 or less; cows \$3.25@4.90; heifers \$4@5.60; bulls \$3.15@4.25; calves \$3.50@5.75. There is a better feeling to-day in stockers and feeders, though no signs of a return to former high prices. Stockers sell at \$3.85@5, feeders \$4.25@5.20. Total cattle supply at Kansas City for April aggregates 190,000 head, including 9,000 calves, against 157,000 same month last year, including 5,000 calves, setting a new mark for April cattle receipts at this point.

Hogs declined 10c last week, on receipts of 64,000 head, and the market is 5@7 1/2c lower to-day, mainly because of a big supply at Chicago. Demand is strong, and there is no drag to the market, but with present volume of receipts at all points the tendency is slightly downward. Light hogs lost only about half as much as heavies last

**INCUBATORS AND BROODERS.**

**Hatch Chickens by Steam with the EXCELSIOR INCUBATOR Or WOODEN HEN**

Simple, perfect, self-regulating. Hatch every fertile egg. Lowest priced first-class hatcheries made. GEO. H. STAHL, Quincy, Ill.

Send for free Catalogue.

\$7.50 Incubator

Everybody's Incubator holds 125 eggs. Self regulator, needs no moisture, powerful double heater, egg tray and new removable sanitary nursery tray. Has everything high-priced hatcheries have. Four walls, packed, not affected by heat or cold. Cat. Free

Governor Incubator Co., 811 Main St., Governor, N. Y.

**SCOTCH COLLIES.**

### Scotch Collies.

Fifty-seven Collie puppies just old enough to ship. Place your orders early, so you can get one of the choice ones.

Walnut Grove Farm, Emporia, Kans.

## WITTE GAS ENGINES

The highest type of self-contained engine on any commercial, gas or liquid fuel. Now sold on 30 Days' Free Trial. Very sensitive governor; perfect electric igniter, other exclusive essentials. Result of 30 years' experience.

Write for Catalogue  
WITTE IRON WORKS CO.,  
W. 5th Street, Kansas City, Mo.

When writing, advertisers please mention this paper.

AY 2, 1907

Week, lights selling to-day at \$6.40 @ \$6.45, heavy 45, medium weights \$6.35 @ \$6.45, heavy...

Weather Bulletin

For the Week Ending April 29, 1907

Topeka, Kans., April 30, 1907. DATA FOR THE WEEK.

Table with columns: Maximum, Minimum, Mean, Departure from normal, Total, Departure from normal. Rows include Cimarron, Colby, Coolidge, Dodge City, Dresden, Englewood, Farnsworth, Garden City, Goodland, Gove, Hill City, Liberal, Scott, Wakeeney, Wallace, Division.

Table with columns: Maximum, Minimum, Mean, Departure from normal, Total, Departure from normal. Rows include Alton, Anthony, Chapman, Clay Center, Coldwater, Concordia, Cunningham, Eldorado, Ellinwood, Ellsworth, Greensburg, Hanover, Harrison, Hays, Hutchinson, Jewell, Larned, Lebanon, Macksville, McPherson, Norwich, Phillipsburg, Republic, Rome, Russell, Salina, Wichita, Winfield, Division.

Table with columns: Maximum, Minimum, Mean, Departure from normal, Total, Departure from normal. Rows include Atchison, Burlington, Columbus, Cottonwood Falls, Emporia, Eskridge, Eureka, Fall River, Fort Scott, Frankfort, Garnett, Grenola, Horton, Independence, Iola, Kansas City, Lawrence, Lebo, Madison, Manhattan, Moran, Olathe, Osage City, Oswego, Ottawa, Paola, Pleasanton, Sedan, Topeka, Valley Falls, Yates Center, Division, State.

GENERAL SUMMARY.

The past week was warmer than the week preceding, its average temperature was 6° below the normal. The mean temperature was below 50° throughout the western division, except in the extreme southern counties, and in the northwestern counties of the middle division.

Grain in Kansas City. Kansas City, Mo., April 29, 1907. Receipts of wheat in Kansas City to-day were 116 cars; Saturday's inspections were 73 cars. Prices were generally unchanged. The sales were: Hard wheat—No. 2, 2 cars 77 1/2c, 1 car 77 1/2c, 1 car 76 1/2c, 3 cars 76 1/2c, 12 cars 76c, 1 car 75 1/2c, nominally 74 1/2c @ 78c; No. 3, 1 car 76c, 1 car 76 1/2c, 1 car 76c, 1 car 75c, 1 car 72c, 2 cars 71c, 4 cars 70c, 6 cars 69c, 1 car 63c; rejected, 2 cars 64c, 1 car 63c. Soft wheat—No. 2 red, 1 car 62c, 1 car 60c; No. 3 red, 1 car 60c, 1 car 59c, 1 car 58c, 1 car 57c, 1 car 56c, 1 car 55c, 1 car 54c, 1 car 53c, 1 car 52c, 1 car 51c, 1 car 50c, 1 car 49c, 1 car 48c, 1 car 47c, 1 car 46c, 1 car 45c, 1 car 44c, 1 car 43c, 1 car 42c, 1 car 41c, 1 car 40c, 1 car 39c, 1 car 38c, 1 car 37c, 1 car 36c, 1 car 35c, 1 car 34c, 1 car 33c, 1 car 32c, 1 car 31c, 1 car 30c, 1 car 29c, 1 car 28c, 1 car 27c, 1 car 26c, 1 car 25c, 1 car 24c, 1 car 23c, 1 car 22c, 1 car 21c, 1 car 20c, 1 car 19c, 1 car 18c, 1 car 17c, 1 car 16c, 1 car 15c, 1 car 14c, 1 car 13c, 1 car 12c, 1 car 11c, 1 car 10c, 1 car 9c, 1 car 8c, 1 car 7c, 1 car 6c, 1 car 5c, 1 car 4c, 1 car 3c, 1 car 2c, 1 car 1c, 1 car 0c.

The Hay Market. The top grades of timothy and alfalfa are in good demand at firm prices. The market is dull for other kinds. There is some low-grade hay on the market for which there is little demand; otherwise the market was fairly active considering the bad weather. Receipts included 78 cars of prairie, 11 cars of timothy, 3 cars of clover mixed, 1 car of alfalfa, and 3 cars of straw, a total of 106 cars, as compared with 91 cars a week ago and 80 cars a year ago. Quotations are as follows: Choice prairie, \$9.50 @ 10; No. 1 prairie, \$8 @ 9.25; No. 2 prairie, \$6 @ 8; No. 3 prairie, \$4.25 @ 6; choice timothy, \$14.25 @ 15; No. 1 timothy, \$12.50 @ 14; No. 2 timothy, \$10.50 @ 11; No. 3 timothy, \$7 @ 9.50; choice clover mixed, \$12.50 @ 13; No. 1 clover mixed, \$11 @ 12; No. 2 clover mixed, \$8 @ 10; No. 3 clover mixed, \$7 @ 8; choice clover, \$12 @ 12.50; No. 1 clover, \$10.50 @ 11; No. 2 clover, \$7.50 @ 10; wheat and oat straw, \$5.25 @ 5.50; choice alfalfa, \$14.50 @ 15.50; No. 1 alfalfa, \$13.50 @ 14.50; No. 2 alfalfa, \$8 @ 10; No. 3 alfalfa, \$4.50 @ 8; slough hay, \$5 @ 6.

South St. Joseph Live-Stock Market. South St. Joseph, Mo., April 28, 1907. The week opened with moderate receipts of cattle at the local markets, but the country again made the mistake of concentrating a half week's run in Chicago for Monday, and the lower market here was reflected in a weaker turn at the river. Locally the offerings of steers ran more largely to light weights than for some time. Buyers started out to force prices a little lower, but finally got to going at steady to easy prices. Only a couple of bunches of cattle arrived and these were unsold at a late hour, but were styles to sell between \$7.75 @ 9.90. The bulk of steers sold in a range of \$4.30 @ 5.40 to good quality, with common to fair light weights at \$4.25 @ 4.75. The market for fat cows was steady but heifers showed a tendency to drag slightly, with the best here selling at \$5. There was hardly enough stock cattle here to attract slumps to the yards, the severe slump of last week having cut off shipment of this class of cattle. Prices were steady on basis of recent dealings. Liberal run of hogs was again reported in sight with the big bulk concentrated in the East. There was a good demand for hogs but the big supply in the East enabled packers to force a decline of 5c in prices. There is a feeling in the trade that after the first of May there will be a falling off in the marketing of hogs and firmer prices are anticipated. The bulk of hogs to-day sold within a range of \$6.35 @ 6.42 1/2 with tops selling at \$6.45. There is not much spread in prices, but the prime bacon and butcher weights are selling at a premium. The spread will be apt to be greater as soon as the weather warms up. The receipts of sheep and lambs were moderate all around and the market showed a tendency to recover some of the weakness recently noted. Attractive sheep and lambs both sold at steady to strong prices. It is now known that the supplies of live mutton in feed-lots are running low and as it will be some time before grass sheep will be ready it is anticipated that very strong prices are apt to prevail.

A Book About the Silo. "Modern Silage Methods" is the title of an excellent book of 200 pages. It discusses the points of interest concerning silos and silage. An instructor in one of the agricultural colleges says this is one of the best books he has seen and he intends using it as a text in his lecture room. The book is well indexed and is an authority on the subject. If you are interested write to the Silver Manufacturing Company, Salem, Ohio. If you say you saw their address in THE KANSAS FARMER they will send you a copy free.

THE GREAT DAIN LINE HAY RAKES. FOUR FARM FAVORITES FOR THE HAY FARMER. Includes illustrations of Dain's Power Lift Fuse Rake, Dain's Truss Frame Sweep Rake, Dain's New Idea Rake, and Dain's 3-Wheel Sweep Rake. Text describes the benefits of these rakes for hay farming, such as handling alfalfa and raising the teeth from the ground.

1 CENT IS ALL IT WILL COST YOU. DO NOT BUY A BICYCLE from anyone, at any price, until you have received our complete Free Catalogue illustrating and describing every kind of high-grade and low-grade bicycles, old patterns and latest models, and learn of our remarkable LOW PRICES and wonderful new offers made possible by selling from factory direct to rider with no middlemen's profits. \$8.50 PUNCTURE-PROOF TIRES ONLY \$4.80 PER PAIR. Includes illustration of a bicycle and a tire.

SAM JONES' LIFE AND SAYINGS. BY HIS WIFE. AGENTS WANTED. Agents are coinng money. Send 50c for Canvassing Outfit and Contract for territory. Big Book, 7x10, Price \$2.50. Atlanta, GA. A. N. Jenkins & Scott.

CYCLONE FENCE. Make More MONEY on Fruit. The Fruit-Grower. ST. JOSEPH, MO. Includes illustration of a cyclone fence.

## Special Want Column

"Wanted," "For Sale," "For Exchange," and small want or special advertisements for short time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. No order accepted for less than \$1.00.

### CATTLE.

**FOR SALE**—Registered Hereford bulls sired by Beau Jr. 135568. Will price right. Come and see or write. H. B. Clark, Geneseo, Kans.

**FOR SALE**—Choice Red Polled bulls by D. F. Van Buskirk, Blue Mound, Kans.

**FOR SALE**—Red Polled bulls or heifers, write to Opto Young, Utoia, Ness County, Kans.

**DOUBLE-STANDARD POLLED DURHAM BULLS**—Extra good quality, well bred, good color. Address C. M. Albright, Overbrook, Kans.

**SPECIAL SALE**—5 straight Crulokshank Short-horn bulls for sale at bargain prices for quality. H. W. McAfee, Topeka, Kans.

**FOR SALE**—One carload of high grade Red Polled cows with calves by side. Bowman Bros., Lebo, Coffey County, Kans.

**FOR SALE**—Four yearling Shorthorn bulls. All are read, low down, blocky fellows. One is pure Scotch, two are out of show cows and sired by prize-winning bulls. They weigh from 1000 to 1200 pounds and are first-class individuals. Parties wishing to see them will be met at the train in Abilene. C. M. Garver, Abilene, Kans.

**ABERDEEN-ANGUS CATTLE** and Percheron horses. Stock for sale. Garret Hurst, breeder, Peck, Sedgwick County, Kans.

### SEEDS AND PLANTS.

**SWEET POTATOES**, eight varieties of tomatoes, and cabbage plants for sale, \$2 per 1,000. Prompt shipment. Satisfaction guaranteed. Sunny Home Fruit Farm, W. A. Schreier & Sons, Argonia, Kans.

**GREEN HOUSE PLANTS**—Sample dozen 50c (by mail) embracing Carnations, Roses, Geraniums, etc. T. Montgomery, Larned, Kans.

**PLANTS**, Cabbage, Early Jersey Wakefield, Winingstadt, Early Summer, Succession, Tomato, Early Dwarf Champion, Early Dwarf Stone, Matchless, Stone, Beauty; 80 cents per hundred, \$2.50 per thousand. Sweet potato, Yellow Jersey, Yellow Nansmond 20 cents per hundred, \$1.50 per thousand. Red Jersey, Red Bermuda, Black Spanish, Southern Queen, 25 cents per hundred, \$1.75 per thousand. F. P. Rude & Son, Ind. Phone 4008, North Topeka, Kans.

**Trees** At bargain prices. List; now ready tells all about our cleaning-up sale of choice trees. Send for it to-day. Easterly Nursery Co., Cleveland, Tenn.

### HORSES AND MULES.

#### \$150 OFFERED

for each mule colt bred from J. Sheneman's Jack, ½ mile east and 3 miles south of Agricola. P. S. G.

**FOR SALE**—A Jack Daw stallion, dam Happy Heir; 4 years old, color dark brown and nicely marked. Good disposition; stylish driver, time 2:38. Can be seen for a short time at 528 Van Buren St., Topeka, or write F. E. Baker. A bargain.

**FOR SALE**—Rubini, Jr. Bay, perfectly sound. Colts took first and second premiums in roadster class last year at Osage County Fair. A bargain if taken soon. County Clerk, Lyndon, Kans.

**PERCHERON STALLION FOR SALE**—Owing to circumstances I am forced to sell my 7-year-old registered Percheron stallion. He is sound, kind, big; has fine action and is a perfect show horse. Will fully guarantee him. Terms: Cash, approved notes, or will trade for cattle. J. B. Weldon, Eureka, Kans.

**TWO JACKS FOR SALE**—3 and 4 years old. Missouri bred. Address S. C. Hedrick, Tecumseh, Kans.

**FOR SALE**—At reasonable prices, Black Import ed Percheron stallions. E. N. Woodbury, Cawker City, Kans.

**FOR SALE**—One black team, 6 and 7 years old weight 2800 pounds. Mr. and Mrs. Henry Schrader Wauneta, Kans.

### SWINE.

**FOR SALE**—Duroc-Jersey sows with litters, and bred sows and gilts. S. J. Steinmetz, Alden, Rice County, Kans.

**LATE FALL POLAND-CHINA BOARS**—Good as Old High Price. Sells for twice the money, for \$25 net. Will trade for gilts as good as they are. Don't wait. F. H. Barrington, Spring Creek, Chautauqua County, Kans.

**FOR SALE**—Forty Duroc sows and gilts, bred for March and April farrow. Also sows with litters R. O. Stewart, Alden, Kans.

### MISCELLANEOUS.

**RURAL BOOKS**—Send for descriptive list of book for farmers, gardeners, florists, architects, stock raisers, fruit-growers, artisans, housekeepers and sportsmen. Sent free. Address: The Kansas Farmer Company, Topeka, Kans.

**DRUGS AND PHOTO SUPPLIES**—Eastman's Kodak, Pramo Cameras, Velox and Sollo paper. Films for all cameras and kodaks. Fred T. Walker, 825 Kansas Ave., Topeka, Kans.

**HOW TO MAKE \$500 YEARLY PROFIT** with twelve hens. Circular free. Lock Box 49, United Supply Co., Franklin, Ohio.

**WANTED**—Experienced man and wife (no children) to manage small farm near Topeka. Address Position, care Kansas Farmer.

**WANTED**—Gentleman or lady to travel for Mercantile House of \$250,000 capital. If desirable the home may be used as headquarters. Weekly salary of \$1,000 per year and expenses. Address J. A. Alexander, 125 Plymouth Place, Chicago, Ill.

**"CORRECT ENGLISH, HOW TO USE IT"**—A monthly magazine devoted to the use of English; Josephine Turk Baker, editor. Partial contents: Course in Grammar. How to Increase One's Vocabulary. The Art of Conversation. Shall and Will; Should and Would; How to Use Them. Pronunciations ('Century Dictionary). Correct English in the Home. Correct English in the School. What to Say and What Not to Say. Course in Letter- Writing and Punctuation. Twenty Daily Drills. Business English for the Business Man. Compound Words: How to Write Them. Studies in English Literature. Agents wanted; \$1 a year; send 10c for single copy. Correct English, Evanston, Ill.

**ORCHARD FOR SALE**—Twenty acres in Peysette Valley, Idaho, just outside New Plymouth, a thriving town, with churches, schools, stores, bank, newspaper, railroad, etc. This land grows the best apples, peaches and prunes, 800 bearing trees. Address F. A. Carrier, 100 Washington St., Chicago, Ill.

**MAN WANTED** in each county to sell wire fish traps on halves. Price, \$2. Joe Liles & Son, Dawson, Nebr.

**FOR SALE**—Special bargains in rebuilt engines and separators. They will make you money. Write us quick before they are all sold. The Geiser Manufacturing Co., 1410 Union Ave., Kansas City, Mo.

**WANTED**—A secondhand traction engine, not less than 16 horse power. Dr. W. E. Barker Chouteau, Kans.

**HONEY**—For Kansas, Missouri and Oklahoma. Two 5-gallon cans, 150 pounds net—Amber \$3.40; whitest \$3. Also small cans. Comb honey in one pound sections 12c. Write for price list. Nothing but genuine bees honey. Reference Kansas Farmer Co. Address Cheek & Wallinger, Props., Arkansas Valley Apiaries, Los Animas, Colo.

## Stray List

### Week Ending April 18.

Cowley County—A. H. Abrams, Clerk.  
**MARE**—Taken up, March 25, 1907, by W. Hill, in Atlanta, Kans., one gray mare, 15 or 15½ hands high, ear split, valued at \$50.

### Week Ending May 2.

Crawford County—Fred A. Gerken, Clerk.  
**HORSE**—Taken up by F. W. Witter, in Baker tp., March 19, 1907, one gray horse, 14½ hands high, branded A. J. and O and O, valued at \$10.

### LEGAL.

**FRED C. SLATER, Lawyer,**  
Topeka, - - - Kansas.

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## AN IDEAL

# Hereford Dispersion Sale

The Fair Acres Farm Herd

OWNED BY

Mrs. C. S. Cross, Emporia, Kans.,

# Wednesday, May 15, '07

At the Farm Adjoining Sunny Slope Farm.

The entire Fair Acres Farm Herd consisting of 71 choicely bred Herefords, including 25 grand cows, 8 with calves at foot; 12 extra fine yearlings heifers; 16 yearling bulls; the remainder calves; also the young show and herd-bull, Christy 234417 by Keep On 2d and out of Fashion by Lord Saxon.

This is a dispersion extraordinary for the reason that there has never been an inferior or undesirable breeding animal on the farm. The foundation stock were all selected because of their known value.

The catalogue will reveal significant values to the breeding fraternity. Send for it. All are welcome and especially invited to be present at the sale.

For further information address

**Mrs. C. S. Cross,**

EMPORIA, - - - KANSAS

Auctioneers: Cols. F. M. Woods and George Bellows.

# Shorthorn Dispersion Sale

By the estate of Henry Haub, including an offering by Herbert Haub,

Holton, Kans., Sat., May 18, '07

## 60 HEAD 60

These cattle are Scotch-topped and from the best standard American families; consisting of 30 cows with calf at foot or in calf to our Scotch-topped herd bull, Good Enough 260149. Ten bulls 1 and 2 years old, including herd bull Good Enough. Also twenty head of young females from 10 months to 2 years old. Cattle will be presented in thrifty, well kept condition.

We will also sell eight head of Poland-Chinas, both sexes. Sows are bred. Will sell share of stock in Standard Poland-China Record including 16 volumes.

For catalogue write to

**Herbert Haub, :: Holton, Kans.**

Res. Tel. 775.

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An invaluable feed in the developing of young stock.

**A Bone Maker, A Muscle Developer, A Flesh Producer, Prevents Scouring in All Kinds of Young Stock.**

Oat Nutriment is a cooked product of our cereal mill and is guaranteed to contain no drugs. It contains 20 per cent of Protein and 8 per cent of Fat. Stock breeders will find its use invaluable in fitting their show herds. Price \$2 per hundred, F. O. B. Atchison. Special prices on car lots.

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ATCHISON, KANSAS.

## DISPERSION SALE

Wichita, Kans., May 8, 1907.

**70 Head of Standard Bred Horses**

The largest sale of standard bred trotters and pacers ever held in the state of Kansas. Dr. J. T. Axtell, and C. B. Warkentin of Newton, Kans., consign their entire herds. The stallions, Gambrel, 2:10½, and Falmont, 2:14½, will be sold. Twenty-five brood mares, heavy in foal or with colts by their sides, are entered. Thirty speed prospects and drivers ready to race or to use on the road. Auctioneers, R. L. Harriman and L. E. Fife. Send for catalogue to

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