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TOPEKA, KANSAS, APRIL II, 1907

Established 1863. \$1 a Year



Hon. F. D. Coburn, Secretary State Board of Agriculture, Topeka, Kans.

Dear Sir:—I would like to ask a few questions in regard to our country and irrigation. I saw one of your reports in some of the papers, saying that the sheet water at Garden City is from 300 to 500 feet in depth. We also have the sheet water here in Lane-County, but it is 65 feet under the ground, and it would be quite expensive to pump it from that depth for irrigating. But I think that our

sheet water could be piped and would run from the ground without pumping. I will give you my idea, and I would like to hear from you as to which you think would be the cheapest way, in a course of twenty-five years; the way the Government is going to pump the water at Deerfield and run it in a ditch to the upland north of Garden City or the following way:

Western Kansas has a fall of seven feet to the mile and the sheet water under the ground is supposed to have the same fall. This makes it look possible that a well could be dug fifteen miles west of here and that if a pipe of any size



Traction Engine Drawing Plows, Goonoo Goonoo, New South Wales. See article on page 467.

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KANSAS FARMER.

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were laid the distance of fifteen miles into the water in the well with both ends of the pipe closed till it would be filled with water, then both ends could be opened. Now, the fall of seven feet to the mile would make the east end of the pipe forty feet lower than the water in the well fifteen miles west, which would give it a suction, and would run always unless the water in the well were lowered forty feet, making it on a level with the east end of the pipe. If a pipe two feet in diameter were used, how much water would flow at a pitch of forty feet, and how much land could be irrigated with it? If the water that would flow during the winter were used to subirrigate trees and alfalfa, how many acres of our clay subsoil would it wet to a depth of twenty-five feet? How much alfalfa hay would one acre produce if thoroughly soaked to a depth of twenty-five or thirty feet, and not irrigated any after April 1? I would like to have your idea in regard to this. I think we have a good country as it is, but it could be made a much better one. George Boltz.

Lane County.

Secretary Coburn has referred the above inquiry to the editor of THE KANSAS FARMER with a request that he answer it. The answer at this time is limited almost exclusively to the eering aspects of the case.

The first point to be determined relates to the practicability of the proposed plan of bringing water to the surface. The "sheet water," or "underflow" has long been known to exist under very large areas of Western Kansas. The settlers called it the underflow long before the scientists were willing to admit that it has a movement. This movement is slow but unceasing. Its direction is from west to east. The amount of the supply is very great. Whether enough can be had at one place to supply a 24-inch lipe is a question that may be passed for the present.

It is scarcely to be presumed that this inquirer proposes to open a ditch 65 or more feet deep at the upper end and 15 miles long in which to place the pipe suggested. Without making

figures it is readily conceded that the cost of such an undertaking would be so much like that of the Panama Canal as to be prohibitive. The presumption from the wording of the inquiry is that the inquirer has in mind a siphon, one leg of which should extend into the well enough below the present water plain so that the water may be lowered considerably without falling below the inlet to the siphon. The other leg of this siphon would extend down the slope for a distance of fifteen miles, thus placing the outlet forty feet below the water level at the inlet. This longer leg would probably be intrenched for safety, but would probably not be buried more than five feet deep at the highest

If the writer has rightly apprehended the inquirer's plan the next question is: Would such a siphon work?

The maximum theoretical elevation which the highest part of a siphon may have above the level of the water supply is about thirty-two feet. In practise it is necessary to make this elevation very much less than thirtytwo feet, and if efficient service were obtained with a height of say twenty feet the expectations of engineers would be fully realized. . This would make necessary a ditch or a tunnel at least forty-five feet deep for a considerable distance. The cost of such excavation, added to the cost of the pipe and its installation would doubtless be prohibitive. It may be instructive to examine an item of this cost. Castiron pipe should be used on account of its superior durability. Suitable cast-iron pipe twenty-four inches in diameter weighs about 200 pounds per foot in length. For the proposed 15 miles not less than 79,200 feet of pipe would be necessary, the total weight of which would be about 7,920 tons. If this could be laid down at \$30 per ton the cost of the 15 miles of pipe would be \$237,600. The cost of lead for joints, the cost of labor and other items would make substantial additions to this large sum. It may be interesting to know that the engineer's estimates of the cost of pipe laid in Topeka-estimates on which the city paid a large premium in buying the waterworks was for 18-inch pipe \$2 per foot.

But, if it be desirable to consider the theoretical capacity of such a plant a few figures may be presented. A 24-inch pipe 15 miles long under a constant head of 40 feet would discharge about 2,220 gallons of water per minute, 133,200 gallons per hour, or 3,196,800 gallons per day. This would cover 80 acres nearly 11/2 inches deep every day, allowing 40,-000 gallons for the irrigation of an acre, or about 1,100 acres every two weeks. It might irrigate 1,280 acres of land sufficiently for ordinary crops if diligent use were made of the winter flow to moisten the soil to a great

If this water were valued at \$1 for each acre irrigated the revenue would be not sufficient to pay interest on the very large investment even were the cost of maintenance and operation not large.

Among the engineering problems which it is necessary to consider before entering upon such an undertaking as this inquirer indicates, may be mentioned the development of so great a supply of water to feed such a plant. There are also some features of the operation of a siphon, etc., which should not be passed over

If the experiment of siphoning water from the underflow is to be made it were better to select a locality where the conditions are easier than those described by this inquirer. In the Arkansas Valley bottom lands, the water plane is about ten feet below the land surface. A site may be found where the long leg of the siphon can discharge into a swale the bottom of which is near the water level. A siphon drawing water from a well one mile up stream from an outlet discharging into such a swale might have a head of seven feet. A twelve-inch

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siphon so installed would, until the head were drawn down somewhat, have a theoretical capacity of about 1,000 gallons per minute, and would furnish water to irrigate nearly half as much land as would be irrigated from the enormously expensive plant described in the inquiry even should the engineering difficulties not forbid the installation of the plant where the water is sixty-five feet below the sur-

KANSAS FREIGHT-RATE HEARING.

Interstate Commerce Commissioners Prouty and Clark on last Monday began, at Topeka, an investigation of freight-rate problems at the instance of the Farmers', Merchants', and Shippers' Club of Kansas. Representatives of Oklahoma and of Texas interests were admitted to participation in the examination.

Up to this writing, Tuesday morning, the most important testimony introduced is that of Hon. W. R. Stubbs, of Lawrence, Kans., whose experience as a railroad-builder in Kansas, Missouri, Iowa, Indian Territory, Oklahoma, Texas, and Mexico enable him to estimate the cost of duplicating railroad properties.

Mr. Stubbs testified he could rebuild the main lines in Kansas:

| Rails, 80 lbs. per yard, 140 tons per mile, at \$30 per ton per mile. | \$4,200 |
|---|----------|
| Splices, spikes, bolts, etc., per | |
| Shines spikes, built, out, por | 400 |
| mile. | 2,500 |
| mion 9 800 ner mile: Der mile | 2,000 |
| Grading at fourteen cents per | 27222 |
| yard, per mile | 5,000 |
| yard, per mile | 600 |
| Track laying, per mile | |
| Deldges denots round houses, | |
| wight of way expenses, engi- | |
| neers, per mile | 6,000 |
| Ballast, per mile | 4.000 |
| Ballast, per mile | 2,300 |
| Incidentals, per mile | -, |
| | -05 000 |
| Total cost per mile | \$20,000 |
| 1000 | |
| Aha faurog for l | nranch |

Following are the figures for branch lines of Kansas:

Rails, 120 tons, at \$30 per ton, per mile.
Ties 2,600 per mile; per mile.
Track laying, per mile.
Bridges. depots, water service, right of way, engineering expenses, etc., per mile.
Incidentals, per mile.
Splices, spikes, bolts, etc., per penses, etc., per mile......

picidentals, per mile.....

plices, spikes, bolts, etc., per

mile....

Mr. Stubbs is reported as saying: "I wish the railroad men would give me a chance to rebuild their lines at these figures. I would be willing to put up a bond of one million dollars that I can, rebuild the lines at that price and make a handsome profit

at it.' The interest of the farmers in the proper determination of freight rates is greater than that of other patrons of the roads. The merchant and the shipper receive their profits over and above the cost price of commodities plus freight. Whether high or low. freight charges are covered in the difference between the price received by the producer and the price paid by the consumer, and do not affect the dealers' profits except as there are discriminations in favor of or against certain dealers or certain localities. The American farmer is affected by these discriminations and in addition to these he must pay the inexorable cost of production on the one hand and must accept the inexorable world's market price for his product on the other hand so that if freight rates are too high the excess must come out of his just returns for his labor and capital. They can not be deducted from the price paid as in the case of the grain-dealer, nor can they be added to the cost price as in the case of the merchant.

The farmers of Kansas are able and willing to pay compensatory rates for the service of the transportation companies. They believe, however, that they have paid rates that are out of proportion to the cost of the service rendered, and that they have been discriminated against at least with reference to shipments from and to interior points in the State. The present investigation in response to their petition through the Farmers', Merchants', and Shippers' Club should determine the correctness or incorrectness of the farmers' belief, and if this belief shall be found correct the Interstate Com-

merce Commission will doubtless or. der such rates as will be fair and just The full commission is constituted

as follows: INTERSTATE COMMERCE COMMISSION.

Martin A. Knapp, New York, chair. man; Judson C. Clements, Georgia; Francis M. Cockrell, Missouri; Charles A. Prouty, Vermont; F. K. Lane, California; E. E. Clark, Iowa; J. S. Harlan, Illinois; Edward A. Mosley, Massachusetts, secretary; Martin 8. Decker, New York, assistant secre-

FARMERS' TELEPHONE LINE

EDITOR KANSAS FARMER:-You will greatly oblige a number of farmers in this locality by giving a brief state ment of the laws concerning rural telephone lines.

Is it necessary to secure a charter! If some land-holder is cranky or stubborn and forbids building a line along the road by his farm, what can be done under such circumstances? How far from the middle of the road should the poles be set? What form of organization and agreement would be B. E. best to follow?

Marion County.

In general it is better that those who erect rural telephone lines incorporate under the laws of the State Such incorporation obviates the liability to many complications that may arise under a partnership arrange ment. Further, the laws conferring rights needed in erecting and maintaining the line are drawn with reference to incorporated companies, and while these rights might be held a pertaining to individuals or partner ships engaged in such enterprises, the intent was clearly to confer them upon incorporated companies. For the laws governing the formation and management of corporations see chap ter 23 of the Revised Statutes of 190i. Blank forms, and perhaps a cepy'd the corporation laws may be obtained on application to the Secretary d State, Topeka, Kans.

Telephone companies are given the rights and powers conferred, and are subject to the liabilities and duties in posed by the general laws of this State upon telegraph companies. (See sections 1323, 1324, General Statutes of 1905.)

"Corporations created for the purpose of constructing and maintaining magnetic telegraph lines are author ized to set their poles, piers, abut ments, wires, and other fixtures along upon, and across any of the public roads, streets, and waters of this State, in such manner as not to incommode the public in the use of sud roads, streets, and waters." (General

Statutes, 1905, section 1408.) Such companies are also given ver wide authority as to privately owned lands and may condemn right-of-wal

over them. As construed by the courts there is little legal restriction as to where the poles shall be set along the highway far less than there should be. In e ercising its powers the corporation should have due regard, not only is the convenience of the public, but als for the convenience of the abutting land-owners, and for the appearant of the landscape.

ADDRNMENT OF HOME GROUNDS

At the meeting of the Shawne County Horticulaural Society week, Dean Kaye, of the Episcop church told of the care taken in la out English country places and farm in order to secure the most artistic rangement possible, and the shown in that country in training the and shrubbery so as to present best possible appearance from any rection it might be viewed.

"In Kansas, on the other hand," said, "there is no sense of beauty any form, with a few scattered end tions. Although great wealth is being accumulated, it is at the expense beauty and adornment. The usual rangement of Kansas farms is to be the barns in the back yards and the tens in the front yard. We need to educate our people. It is as to have been a set to have been to the tens of the to have beauty with utility as the without beauty. We can grow in

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many of the beautiful trees and ubs that can be grown anywhere. ought, now that we have plenty of de, to get beyond elms and cotton-There are other more beauti trees."

alking to members of an organizalargely composed of farmers and t-growers living in the country, n Kaye confined himself largely to lea for more beautiful farms and nyards. He stated that the exse of improving and beautifying m would be small and that it uld be done as a matter of individpride. He advised planting shrubs flowers.

stead of planting a shrub here and ther there, he advised grouping all shrubs of each kind. However, sfactory results might be obtained massing different kinds of shrubs, ers, and foliage plants, planting ones which grow to the greatest aht in the center of the cluster, and ing the others, according to their ht, from the center to the edges.

ean Kaye said that some plan uld be adopted at the outset in iming grounds and that all the work should be according to the plan. h a plan need not be an elaborate or one calling for the expenditure nuch money.

ther papers were presented at the ting. These will appear later in KANSAS FARMER.

TION OF THE SHAWNEE COUN-TY COMMISSIONERS.

he hasty and inconsiderate action he county commissioners of Shaw-County in deciding to procrastithe time of making a two-mill for permanent improvements of State fair ground is ill advised, a positive and permanent injury he prospects and future welfare of wnee County and Topeka.

very State industrial association is ous to have a permanent State fair ed at Topeka, and the majority of State Legislature favors the same osition, provided Shawnee County the city of Topeka will do their in equipping and maintaining a tion for a State fair. The busimen of Topeka agreed to raise a 0 guarantee fund for the payment remiums this year, and the city cil and park commissioners have ed to take charge of and park the nds provided the commissioners make the two-mill levy, authorby act of the last Legislature. for some unaccountable, and indeble reason, the county commisers at their last session decided o make the levy at this time.

e result of such action is liable to Shawnee County a very desirable institution, and to work a posihardship to every business man tax-payer in the county.

ere is only one thing that is propbe done, and that is for the counommissioners to reconsider their n and make it unnecessary for ax-payers of the county to have to the trouble of getting up a al petition to compel them to do plain duty.

PERTY RIGHTS OF ALIENS.

TOR KANSAS FARMER: - I noticed tement in Lawrence paper last mber saying old residents would to apply for naturalization pa-This has raised a question in aind, which I am unable to an-It is this: My brother and I to the United States April, 1869. after, we obtained our first paand were led to believe that secpapers were not needed. Now, I would like to know is this. ach own a small farm. Are our rty rights in any way affected? ve not hold property and will it children the same as other citizens? If we have overlooked ng, I hope you will advise us JOHN FINN.

renworth County.

provision of the Kansas Conon with reference to aliens conin section 17 of the Bill of is as follows:

rights of aliens in reference purchase, enjoyment, or descent

of property may be regulated by law." This provision was adopted in 1888 and amended the original section which read:

"No distinction shall ever be made between citizens and aliens in reference to the purchase, enjoyment, or descent of property."

Under authority of the Constitutional amendment of 1888, the Legislature of 1891 enacted a law restricting the property rights of aliens. This law of 1891 was repealed in 1901, so that now no law in Kansas makes any difference between the property rights of aliens and other persons.

The Common Law places aliens on the same footing as citizens with reference to the acquisition, holding, inheritance, and conveyance of property.

The Kansas law of descents and distributions in providing for cases in which there is no will makes its provisions applicable to the case of "any intestate;" that is, any person who has not made a will.

The Kansas Statute with reference to wills says:

"Any person of full age, and sound mind and memory, having an interest in real or personal property of any description whatever, may give and devise to any person by last will and testament lawfully executed," etc.

The term, "any person," is as broad as it is possible to make it. Probably some have supposed that the new naturalization law of Congress may have some affect on descents and distributions. This new law has no reference to property rights. It does not affect in any way rights obtained under the "first papers."

FENCE QUESTION.

EDITOR KANSAS FARMER: - A OWIIS & piece of land that is fenced, and B has pasture land joining it. B has kept up the fence for several years and furnished his own posts. Now, can A take this fence up, and move it to some other part of his farm, and compel B to build himself another E. N. COURTNEY.

Saline County.

The above statement is not explicit as to whether A or B built the fence in the first place. If A built and owns the fence and does not desire longer to keep his land inclosed, he can take away the fence. But if B owns any part of the fence, A has no right to remove that part even if he desires to leave his own land out in common. It is well in stating a case on which answer is desired to specify every fact that can have any bearing on the rights of the parties interested.

Reports of the "green bug" in wheat have had an effect on the Chicago price for this grain. Secretary Coburn thinks these reports greatly exaggerated and expects the 6,500,000-acre crop of this year to break all records.

Miscellany

The Fifteenth National Irrigation Congress.

The Fifteenth National Irrigation Congress which will be held in Sacramento, Cal., September 2-7 next, will be a very important and valuable session. The people of Sacramento are already making preparations for the event. A managing committee or board of control has been created, an office established, and the work of providing for the comfort and entertainment of visiting delegates is well un-

The plans for the event include an interstate exposition of irrigated-land products and forestry, in which all States having irrigation and forestry interests have been invited to participate. It is announced that handsome trophies and prizes will be offered for State and individual exhibits of all kinds of irrigated products, also for exhibits of forest products and minerals.

The National Irrigation Congress is composed of delegates representing farmers' clubs, irrigation societies,

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chambers of commerce, and other organized commercial bodies, cities, counties, and States. The meetings are held annually and are attended by delegates from all parts of the United States. Among those who attend are United States Senators and Congressmen, governors of States, and other high officials of National and State governments, as well as practical farmers, irrigators, stockmen, and lumbermen.

The purpose of the Irrigation Congress is to promote the development of wise and beneficial National irrigation and forestry policies, as well as to provide for discussions of practical details of irrigation and forestry. Great and valuable results have followed the work of the Congress in the past, and with the growing importance of, and increasing interest in National irrigation and National forestry still greater importance attaches to each succeeding session.

Railway companies have been asked to make special rates of fare, and special freight rates for exhibit materials intended for exhibition at the interstate exposition, and it is expected that extremely low rates will prevail. Sacramento, where the Irrigation Congress will be held, is the capital of California, an important railway and commercial center, but chiefly important from an agricultural standpoint by reason of the fact that it is located in the heart of the great valley of California, within which lie the greater portion of the farming lands of the State. A thousand-mile excursion through this great valley is a part of the plans for enabling delegates to see California farming and California irrigation.

New South Wales, Australia-a Field for the Settler.

WILLIAM BRUCE LEFFINGWELL.

On the far southwestern boundary of the Pacific Ocean there lies a great British possession of which the majority of United States citizens hear and know little or nothing. And yet this great colony of Australia possesses more interest for the American than perhaps any other land that lies beyond the pale of the Stars and Stripes. In the first place, the constitution of the Australian Commonwealth bears a most striking resemblance to that of the United States. It is true that the method of appointing the executive government is different, since the Australian Prime Minister is not chosen like our President. In this respect, the British model is adhered to, and the executive offices of the State are filled by a committee of the leading members of the most powerful party in the Commonthis, Australian institutions are surprisingly like those of our own country. They have a Senate and a House of Representatives, and their Federal Congress stands in practically the same relation to the Parliaments of the six Australian States as our own Congress does to our State legislatures. To the citizen of the United States who interests himself in current politics, Australian affairs since the Federation of the Australian Colonies a little over six years ago, gives a most instructive picture of the way in which political problems that we

ONLY ONE "BROMO QUININE" That is LAXATIVE BROMO Quinine. Similarly named remedies sometimes deceive. The first and original Cold Tablet is a WHITE PACKAGE with black and red lettering, and bears the signature of E. W. GEOVE. 250. ourselves have to face are being grappled with by a young and vigorous people, sprung from the same stock as ourselves. Australians boast that their Constitution is the freest in the world; and for freedom of institutions there seems little to choose between those of Australia and our own. Every adult Australian (women as well as men) has the right to vote at parliamentary elections. In one respect Australia is even more fortunate than we are: they have no colored problem. The whole of the 4,000,000 who make up the present population are of Anglo-Saxon parentage, and English is the only language spoken from one end of the Island Continent to the

BID FOR FARMERS.

But it is for the United States farmer that Australia at the present time possesses the greatest interest. For many years past immigration to Australia had been discontinued, and there appeared to be a disposition on the part of the settlers to reserve for themselves and their offspring the good things which their land had in store. Recent events in Eastern Asia, however, have awakened the Australian to the urgent necessity for a rap id increase in population, if Australia is to be maintained as the heritage of a white, English-speaking race, and several of the States have recently inaugurated a policy of immigration. Of these, New South Wales, the oldest and wealthiest State of the Commonwealth, is now engaged in making an earnest bid for farmers to come and cultivate the vast tracts of virgin soil that are at present lying idle. A subsidy of from \$20 to \$30 is granted to every desirable newcomer, and every effort is being put forth to make known to the people of the United States and of Great Britain the solid advantages which New South Wales possesses for the worker. Under these circumstances, it is interesting to learn

WHAT THIS SOUTHERN LAND HAS TO OFFER.

In the first place, the State of New South Wales comprises an area of nearly 200,000,000 acres, of which less than 3,000,000 are at present under crop, so that to the farmer who is inclined to carve out his fortunes in a new and kindly territory there are almost illimitable prospects in this State, whose inhabitants number only 1,500,000. As to climate, nothing is more puzzling to the people of Australia than the absurd notions which are current in America and Europe as to their climatic conditions. Men who face the torrid heat of the Philippines and India with equanimity speak with bated breath when residence in Australia looms up on their horizon. They conjure up fears of the heat, just as they are alarmed by the fabulous dangers of bushrangers and blackfellows, and it is hard to convince them that life in this country presents no such terrors. It is, of course, difficult for a stranger to comprehend that the vastness of Australia involves great variety in temperatures, but the truth is available to him that the sun shines over the whole continent every dry day. High temperatures, of course, prevail in the interior, but they do not make it impossible for men reared in America to live healthy lives, nor to obtain remarkable longevity. Sunlight and "glorious oxygen" are certainly more conducive to health than damp which lurks in shady corners,

and is never brought under the beneficial blast of a hot wind. Whatever may be the discomforts which attend summer residence in the more remote inland parts of Australia, they are all forgotten when the bright and bracing winter comes round. A great deal of emphasis has been placed upon the recurrence of drouths as a reason why Australia is not a desirable field for settlement; but here, again, the immense extent of the country admits of no such generalization. True, the dry seasons inflict great losses upon sections of the community, but it is only on very rare occasions that the area affected is wide. Partial failures in the supplies of nature are common to every part of the world, but in Australia they are susceptible of mitigation by resorting to bores in the great artesian basin and to irrigation. After all, it is easier to deal with the forces of nature when they inflict drouth than when they take the form of blizzards and snowstorms, such as bring total ruin to farms of North America. It is a well-established fact that in Canada there is a race every year between the getting in of the harvest and the first frost, and woe betide the farmer if the latter wins, for he will get nothing from the soil for another twelve months. In New South Wales the rain may, though very rarely, come so late that the wheat harvest is small; but the agriculturist can plant again at once, and raise other crops, such as corn or potatoes, before he has to put in his seed-wheat for next season. In like manner, the squatter now finds it to his advantage to grow hay, and stack it against the necessities of the next dry time. He is, moreover, convinced that there is a great virtue in ensilage, and in the distribution of artesian water over a sufficient area to provide feed for his stud flock. The agriculturist, on the other hand, is extending his operations to mixed farming, and he has learned that that is the right policy in a country where the raising of crops may go on continuously, year in and year out, without regard to summer or

THE FORESTS.

In view of the shortage of the world's supply of hardwood, the forests of New South Wales constitute a great asset. It has been established that for railway sleepers, bridge girders, and wood pavements, there is nothing grown on this globe to be compared with New South Wales turpentine, blue gum, ironback, stringybark, and tallow-wood, and the foreign demand which has set in of late years for these timbers can only be regarded as a fraction of what it will be in another decade. No less bountiful is this State's dower in timbers suitable for cabinet and furniture work, for the cedar, rosewood, and spotted gum are equal to anything that is produced elsewhere. Other countries have not been slow to appreciate the virtues of New South Wales gum-trees. Not only has the demand for eucalyptus oil become general, but the hygienic qualities of the gum-tree have led to the planting of it in the Roman Campagna, in California, and other parts of the world, where it has turned districts that were formerly uninhabitable, by reason of their feverproducing powers, into possible places of residence.

If so much can be claimed for the primeval forest, what shall be said for the humbler forms of vegetation? The excellence of New South Wales dairy produce is greatly to be attributed to the herbage which grows on the east coast of Australia. Inland, grass flourishes so luxuriantly that in a good season stock can not eat it down. On the arid plains of the west grows the salt-bush which supports so many millions of sheep. In many a drouth the staying powers of this wonderful edible shrub have saved the situation for the squatter, and to-day the farmer who possesses a good tract of Oldman salt-bush, with an artesian bore, can weather the stress of any drouth.

THE SOIL WHEN CULTIVATED.

With a soil that shows itself to be so fruitful in its virgin state, it is not

remarkable that New South Wales should offer rich rewards to whoever tills it. The magnificent crops raised on the New England plateau, on the Western Plains, in Riverina and Monaro, testify to the richness of the land when brought under cultivation. The alluvial of the Northern Rivers is capable of growing almost anything. Under the stimulating influence of an ample rainfall and sub-tropical heat, corn, potatoes, and lucerne are wonderfully prolific, and it is not at all unusual for the latter fodder to be cut every six weeks.

FRUITS.

It must, however, be admitted that, notwithstanding the magnitude of the results obtained, the system of farming followed in many parts of New South Wales has been so much inferior to that practised in older lands that it can not be said to have amounted to much more than mere scarifying of the surface. The establishment of the Hawkesbury Agricultural College, near Sydney, and experimental farms, has brought about a great degree of enlightenment upon scientific agriculture, and it is certain that in a few years the latent riches of the land will be developed to their fullest extent. In no other form of tillage has the wealth of the soil been so convincingly proved as in the orchards of all the States. Australian fruit finds an appreciative market in England; but those who buy it there would think there was much more reason than ever to call it a land of contradictions if they knew that in these sub-tropical regions date-palms flourish alongside wheat-fields, and apples, pears, apricots, peaches, cherries, strawberries, and gooseberries grow mingled with oranges, lemons, and bananas.

MINERALS.

Although the only hold the Australian continent has upon fame in many parts of the world lies in the gold production, it may safely be asserted that the real mineral wealth of New South Wales lies in deposits of other metals. What the Rand is to South Africa, the silver-mines of Broken Hill are to New South Wales, though the metals won are not the same. Great Cobar and Mount Lyell are but pioneers of many composite mines which will turn out gold in conjunction with other metals. It has been established that the stanniferous deposits, both in stream and lode form, are enormous. There is hardly a metal known to science which has not been found in payable quantities in New South Wales-asbestos, chrome, cobalt, molybdenite, wolfram, and carmenite. Great though the wealth represented by the existence of these metals may be, it sinks into insignificance when the Coal Measures are reckoned with. To-day New South Wales knows that her Coal Measures are worth more than those possessed by any country in the world. Coal is being worked by half-a-dozen companies in a seam thirty feet thick. A well-known Welsh expert recently admitted that the South Maitland coal is the best in the world for general purposes, and that its superiority was emphasized by the fact that throughout its immense thickness the seam showed neither band nor dirt. The Hunter Coal Measures have been traced for hundreds of miles north of Newcastle and south of Sydney. Coal-mining on the Blue Mountains in New South Wales is rapidly becoming a solid industry, and the output is winning over-sea markets. The chief importance of these western fields lies in their contiguity to specially valuable iron deposits and limestone-beds. Wherever this combination exists, great industries are bound to be established, and there is no doubt that in Lithgow, New South Wales has her embryo Glasgow, Pittsburg, or Essen.

Within the past year a great English company has started to develop the splendid kerosene shale in the Wolgan Valley. The quality and extent of these deposits are such that in the strong hands of this company an important manufacturing and exporting industry can hardly fail to be established. At White Cliffs, New South Wales, there has been an extra-

THE LAWS AND NATURE OF I G H T N I N G

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ordinary output of opals, and there are indications that diamonds and other gems will complete the title of Australia to stand amongst the nations as the chief treasure-house of Nature.

A LAND OF CONTRADICTIONS.

At all points, Australia has been proved to be a land of contradictions. Many things that seemed unpromising or unfruitful to her earlier settlers have turned out to be sources of wealth and blessings to her children. The dry interior has been found to possess subterranean reservoirs of never-failing abundance. What appeared to be barren wastes have, with like perversity, yielded combinations of precious metals never contemplated by science. Nature in Australia has been hard to woo, but when she has been won she has remained constant to her suitors.

With such possibilities of untouched wealth, the man with intelligence and some capital should be able, by judicious investments, to increase it enormously in a few years.

NO FREE LAND.

Every assistance is given by the New South Wales Government to new arrivals, and a special State department has been created at Sydney, with the sole object of helping immigrant farmers to get the class of land they want. There is no free land. The country which New South Wales offers to the settler is too good to be given away: and the land which other countries give to the immigrant for nothing is generally found to have brought just about its market value. Prices are however, very reasonable. Every year the New South Wales Government is resumnig large sheep-runs, consisting of excellent arable land, which it is putting into suitable farms. These may be obtained by making a small deposit, the balance to be paid off over a term of years. The holders of large private estates are adopting a like policy. Everything now points to New South Wales becoming a formidable rival to Canada as a field for emigrants from this country. Canada has the attraction of nearness, but the icy blizzards of the freezing Canadian winter forms a dismal contrast with the smiling territories of the Island Continent. New South Wales has now entered upon an era of solid and lasting prosperity, and the rich soils, the vast undeveloped territories, the wonderful climate, and the vigorous immigration policy which the Government has initiated, must appeal strongly to the interest of every farmer who has any thought of improving his fortunes by a move to some new and kindly terri-

Improvement of Public Highways.

Following is the new law which authorizes pay for using the road-drag: "Section 1. On and after the passage of this act, the township boards are hereby authorized to have work done upon the public highways by use of a road-drag, to be approved by said board.

"Sec. 2. The boards shall have the road-drag used upon the public highways, under the direction of the road-

THE INGERSOL DOLLAR WATC



-\$1.50=

By THE KANSAS FARMER CA Topeka, Kans.

overseers, when in their judgment road would be improved thereby. choice of persons to do the work pr erence shall be given, other things ing equal, to the occupants of the la abutting upon the road at the pl where the work is to be done; vided, that when there is more the one occupant the overseer may ded to which the preference shall be en. Reasonable compensation be allowed for such work, but in case shall it exceed fifty cents mile for each time the same is to dragged; and there shall not be pended therefor more than five dollar per mile for any mile on which work is done during any one year." Took effect February 4, 1907.

Rules for the Corn-Growers.

The rules and suggestions govern the Shawnee County boys' corner ing contest have been complete. They were drawn up by F. A. Kie Jr., a graduate of the State Agricular and College, and will be sent out in cular form under the direction of Topeka Commercial Club.

"The business of raising corn ever be one of the most extend phases of agriculture, and each phases They are as follows: as the crops are taken from the a little more difficulty will be en enced in making the yields come that of the previous season and quality hold to that of the seed was planted. The boys of today not in the future be able to raise and other crops so easily or such fully as their fathers have, unless study thoroughly the soil and with which they are working grows in value, and it must do larger crops must be taken from fields to pay the same returns investment, and it is for the turn to this problem of greater production and solve it to the

So this boys' corn-growing conhas been organized, and every boy he county under 18 years of age is d to enter, not alone to take ces on the liberal prizes which be given to those showing the best but for the inestimable benefit ay derive from thought, study, and , and for the pride he may take nowing that he is a producer.

he matter of cultivation and care ne crop may be mentioned, though aps every boy is more or less faar with this. If possible, some litorner or strip which is some dise from other corn-fields should be A moderate application of eted. ure will be helpful, and thorough vation of the ground before plant-is best. Either a combination of ing and harrowing or disking and g, according as to whether the nd is naturally moist or rather After the corn is planted, cultivashould be frequent, especially afeavy rains which pack the ground, the surface be kept loose very moisture will be lost by evaporaand the corn is not likely to sufeven if subjected to dry periods. should be taken that the corn is red before gathering, and then ed in a dry place to cure. It is not to cut the corn for fodder unthis is done very late.

is the desire of the committee in ge of the work to furnish the corn he ear, and if this is done each s urged to carefully study the ears e he plants the corn. The yellow will be Reid's Yellow Dent. Nothat the grains are about twice ide as they are thick, and that are packed closely together, being very little space between Then notice the depth of ows. el and the wedge shape that it have in order to pack in closely. e the indention on the top of This corn should be fairly grain. Type is given as medium in-

ation.

he Boone County White, which e type of white corn to be furd, is much the same as the yelexcept that the grains may be a wider and rougher. There is ically no difference except in the Both ears should be cylindriwith well-filled butts and tips. rows should be straight and run evenly to the ends. The shank e ear should be rather small, perng the grain to swell out evenly d it at the butt. These two of corn are two of the basic and each boy should try to fix s mind the appearance of the or perfect ear. He can do this etter than by carefully studying ed, or if this is furnished shelled securing circulars from seed s which publish photographs, or arefully studying the pictures appear in the farm papers from to time. After the type of corn d in the mind of the young cornr, it is not a difficult thing to out a sample of show ears. If sample is not uniform and true be it must take second place to that are, for this ideal type is osed of points of excellency conduce to a high yield of d corn and must be recognized. en the corn has matured and hered, as many as a hundred of est ears might be picked out. if these are carefully arranged long board or on the floor one begin at the bottom and porest ears. This may be easd quickly done until perhaps v-five remain, when the need for ire and study is greatest. With idea of what is wanted ten should finally remain that are m and that show the greatest r of good points."

Francisco is rapidly pulling out ashes and debris but not as rapshe should, owing to the scarcall kinds of labor. The highest on earth is paid in that city and paid for years to come, for it ke ten years of steady work to the wreck. No city in the offers such opportunities for men. Any one can get ahead industrial field because all is nd no end of it in sight.

Beschervencencencencencencencencencencence Stock Interests

LIVE STOCK REPRESENTATIVES.

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PURE-BRED STOCK SALES.

PURE-BRED STOCK SALES.

Shortherns.

April 12—Andrew County, Mo., Shorthorn Breeders' Association, Savannah, Mo.

April 13—H. E. Bachelder, Mgr., Fredonia, Kans.

April 12, 1907—Shorthorn cattle. Annual sale of S. E. Kansas Stock Breeders Association at Fredonia, Kans., H. M. Hill, Mgr.

April 19, 1907—John McCoy & Son, Morrill, Kans., sale at Seneca, Kans.

April 25, 1907—Everett Hayes, secretary Brown County Improved Stock Breeders Association, Hiswatha, Kans.

May 25—Henry Kuper, Humboldt, Neb.

May 21—W. A. Forsythe, Greenwood, Mo. June 4—Taylor & Jones, Williamsville, Ill. June 11—T. J. Wornall & Sons, Liberty, Mo. June 21—Jos. Duncan, Osborn, Mo.

November 6 and 7—Purdy Bros., Kansas City.

Herrefords.

Herefords. April 19, 1907—Marshall County Hereford Association, Blue Rapids, Kans.
April 17—Marshall County Kans. Hereford Association at Blue Rapids, Kans., F. W. Preston, Sec. April 16—So. On aha, Neb., D. R. Mills, Mgr.
April 19—Sam'l. Dr. bread, Elk City, Kans., May 15—Fair Acres Herefords. Mrs. C. S. Cross, Emporia, Kans.

Poland-Chinas.

April 13—W. A. Davidson and Thos. Collins, Glasco, Kans.

May 24—Hebbard & Roy, Wichita, Kans.
June 12—J. Walter Garvey, Theyer, Ill.
September 19—J. T. Hamilton, So. Haven, Kans.
October 7—T. S. Wilson, Hume, Mo.
October 12—D. C. Stayton, Independence, Mo.
October 12—Sam Rice, Independence, Mo.
October 14—E. E. Axine, Oak Grove, Mo.
October 17—Uharlie W. Dingman, Clay Center,
Kans.

October 17—Uharlie W. Dingman, Clay Center, Kans.
October 19—Geo. Falk, Richmond, Mo.
October 21—F. D. Winn, Randolph, Mo.
October 22—F. A. Dawley, Waldo, Kans.
October 22—W. N. Messick & Son, Pledmont. Kas
October 23—A. P. Wright, Valley Center, Kans.
October 23—A. P. Wright, Valley Center, Kans.
October 25—M. J. Honneyman, Madison, Kans.
October 25—Martin Lents, Atherton, Mo.
October 25—Martin Lents, Atherton, Mo.
October 28—Bollin & Aaron, Leavenworth, Kans.
October 29—I son Calhoun, Potter, Kans.
October 30—The Big 3, Centerville, Kans.
October 31—L. C. Caldwell, Moran, Kans.
November 1—Harry E. Lunt, Burden, Kans.
November 1—Harry E. Lunt, Burden, Kans.
November 2—Dietrich & Spaulding, Richmond,
Kans.

November 2—Dietrich & Spaulding, Richmond, Kans.

November 4—C. S. Nevius, Chiles, Kans.

November 5—E. L. Calvin, Bolcourt, Kans.

November 6—W. R. Crowther, Golden City, Mo.

November 7—T. P. Sheeby, Hume Mo.

November 8—D. E. Crutcher, Drezel, Mo.

November 8—D. E. Orutcher, Mo.

November 8—U. S. Ison, Butler, Mo.

November 9—H. H. Harshaw, Butler, Mo.

November 11—Adams & Lorance, Moline, Kans.

November 12—W. N. Messick & Son, Piedmont,

Kans.

Kans.

November 12—I. E. Knox and Wm. Knox, Blackwell, Okla.

November 14—C. W. Dingman, Clay Center, Kas.

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. & P. Bohmitz, Alma, Kans.

November 19—C. E. Tennant, New Hampton, Mo.

November 20—Er. K. Maupin, Pattonsburg, Mo.

November 21—F. D. Fulkerson, Brimson, Mo.

November 21—F. P. Oreleys, Hiswatha, Kans.

November 22—C. E. Hedges, Garden City, Mo.

November 22—C. E. Hedges, Garden City, Mo.

November 23—F. F. Oreley, Oregon, Mo.

October 7—T. S. Wilson, Hume, Mo.

October 16—Bernham & Blackwell, Fayette, Mo.

October 23—John M. (voats, Liherty, Mo.

February 5—C. E. Tennant, New Hampton, Mo.

February 7—F. D. Fulkerson, Brimson, Mo.

February 7—F. D. Fulkerson, Brimson, Mo.

February 8—Wm. Wingate, Trenton, Mo.

Duroc-Jerseys. November 12—I. E. Knox and Wm. Knox, Black-

Duroc-Jerseys. October 16, 1907—Ford Skeen, Auburn, Nebraska Duroc-Jerseya, November 2-Jos. Lynch, Independence, Mo. November 26—Geo. Hannon, Olathe, Kans, November 26—Marshall Bros. & Stodder, Burden,

Kans. January 21—Jas. L. Cook, Marysville, Kans.

0. I. C. October 17-Frank Walters, Rockport, Mo.

Combination Sale,
April 16, 17, 18, 1907—All beef breeds at South
Omaha, Neb., D. R. Mills, Mgr., Des Moines, Iowa. May 1,2 and 3, 1907—Aberdeen-Angus, Shorthorns and Herefords, South Omaha, Neb., W. C. Mc-Gavock, Mgr., Springfield, Ill. May 14, 15, 16, 1907—All beef breeds at Sloux City, Iowa, D. B. Mills, Mgr., Des Moines, Iowa.

Horses. May 8-Dr. Axtell and C. B. Warkenstein, Wich-ita, Kans.

Mistakes in the Breeding and Handling of Pure-Bred Swine.

W. R. DOWLING, NORCATUR, KANS., BEFORE THE KANSAS STATE SWINE-BREEDERS' ASSOCIATION.

Having been a breeder of pure-bred swine for a number of years, and never having made a very great or National reputation as such, you breeders can better imagine than otherwise know my surprise at receiving an invitation from our worthy secretary to prepare a paper, along the line of the pure-bred hogs business, for this occasion. However, after the surprise had somewhat worn off, I began to think seriously on what particular phase of the business. I was especially fitted to write. This thought occurred to me, that I perhaps had made more mistakes in the business than any other man living, so I took this for my

Now, I want to be with this subject somewhat like some of our politicians are with the currency, make it elastic enough to take in the breeder as well as the breeding, handling, and selling

SYSTEM **Diamonds** credit

of pure-bred swine. We as breeders are prone to emphasize our successes and to hide our mistakes, and I think perhaps this is right, for it is our successes and not our mistakes which make our business a success.

However, as these meetings are for the benefit of the many who attend, as well as for the few who prepare papers, I have thought what a profitable lesson it would be to us all, and especially to the young beginners, to know something of the mistakes we older men have made. It has been said, and I think it is true, that some of our greatest men owe their success to the mistakes of their predecessors rather than to their own foresight. The first mistake the man about to embark in the pure-bred stock business makes is, he thinks all that is required is to go to or send to some boom breeder and buy a few females and a male at perhaps a long price, take them home, give them good quarters, feed them liberally, and his fortune will be made. These things are necessary, especially the last two named, but they are by no means all that is required to make the business a success.

Some one may say, why not? The man to make a success of the purebred hog business must be a good judge of pure-bred hogs; he must be a good buyer; he must be a good salesman; he must be a good letterwriter; and above all he must entertain well. Now, we will suppose he has all these qualifications and is endowed with a whole lot of patience, perseverance, and pluck, and has got started nicely with a herd of even, smooth, medium-sized, and finished hogs. Along comes a great world's or State fair and some man with a great "Chief Buck O. Thunder." He wins the first and sweepstakes prizes. Mr. Boomer comes along and offers to buy "Chief" for \$5,525.50, then offers his pigs at \$500 each. Our breeder thinks he must be in the swim, so he sends in an order for a pig regardless of cost, individuality, or breeding. Nine times out of ten he has made a mistake.

Then again, he has plodded along for a number of years building up his herd. He has a nice lot of large, roomy, motherly looking sows. Perhaps they have not all got the nice, fancy, tippy ear. They may have some white on them or a black switch on some of their tails. Some fancy breeder or "upstairs" farmer comes along and says, "Your herd lacks finish." Well, our breeder thinks he must have finish, so he buys a herdheader all black, six white points, nice tippy ear, etc. He hasn't taken into consideration whether he will cross well on his herd or not, and has made another mistake .

Then, again, he has a nice, well-finished herd, and some of the fellows that have been running after fancy points begin to raise the howl that the breed is too fine, don't have large litters enough, too light boned, too much lard, not enough bacon, and he begins to think he must breed for size, bacon. What does he do? Why, of course, he goes and buys a great big, coarse, lop-eared male to cross on his herd, and makes another mistake.

Some one may ask, Suppose you find your breeding herd too fine, your trade demands something larger and coarser, what are you going to do? Many breedrs begin to ask themselves this same question, especially the Poland-China breeders. Now, I want to say this to the Poland-China breeders: Remember, breeders have been working more than thirty years to get the Poland-Chinas bred down to an easyfeeding, compact, well-finished hog. Now, if you wish to get the breed back to where they started from it will take just that long to do it, and do it successfully. And I want to say to the breeders of the other breeds.

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with the exception of, perhaps, the Berkshires, you are doing just what the Poland-China men have done. I want to emphasize this statement that no breeder can make a greater mistake than to make an abrupt cross in his herd. One such mistake will take him years to correct. You can not depend on the breeding of the offsprings from such a cross. If you succeed as a breeder, you must have your ideal, and it must be a high one, and you must stick to it through thick and thin. You must not be sidetracked by fads and fancies or any one's opinion.

If you were to ask me to give you the one thing most needed in the handling of the breeding herd, I would unhesitatingly say, plenty of range. I know it has been stated here, feed your sows alfalfa, and you would surely get large litters of strong, healthy pigs, and again, if you feed corn you will get nothing but weaklings, and so on and so forth, through the whole category of feeds. I will say this, give me plenty of range and dry, warm farrowing quarters, and I will save as many pigs from the same number of sows on any kind of feed, and I will not except corn, than any man can on any feed without the range. No man can make a greater mistake than to keep his breeding herd in small pens and yards, I do not care what he feeds them. Of course, plenty of range and plenty of the right kind of feed is best.

When you have your pigs raised and it comes selling time, be careful. We make many mistakes in selling. In the first place, don't overfit your pigs just to sell them. We know it is much easier to sell a fat pig or hog than one in just breeding condition, but nine times out of ten the man who buys a fat pig becomes dissatisfied with him and you have lost a customer. If you can succeed in selling a pig in just good breeding condition the longer the purchaser keeps him the better he will like him, and you.

I said in the beginning to be a successful breeder you must be a good letter-writer. I do not mean by this that you must be a blow. No, do not make this mistake of blowing in your correspondence. If it becomes necessary to sell by mail as it often does. when you write your letter of description to your prospective buyer, give a good, fair description of what you have that you think will suit him. Give measurements of length of body, heart girth, width of ham, width of back, length and width of head, from actual measurements if possible, also length and size of leg. Do not make the mistake of describing an animal as a "Joe Dinger," "A Beaute," Howler," "A Hummer." "A Peach."

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"Peaches and Cream." It raises his expectations too high, and if you should make a sale on this kind of description you would probably have a

dissatisfied customer.

I think perhaps the best way to dispose of a goodly portion of our surplus stock is at public sale. It saves time and gives you your money all at once, which many times can be used to a better advantage than when received in small amounts. Then, again, if the sale is held at your home or home town and you succeed in getting a number of breeders from a distance, a good auctioneer, and a newspaper man or two to attend, and the animals you offer are of the right type and in good sale condition, it will create an enthusiasm among your local customers many times worth to you all the cost of making the sale. It also gives your neighbors confidence in your ability as a breeder.

One of the mistakes that have become almost universal in making public sales is the writing of foot-notes for our catalogues-foot-notes that mean nothing and describe less. Here is a sample: "No. 13. Now, boy, when this gilt enters sale ring, take your hats off, for she is bred to kill, for her breeding vill simply make you sick. Send along your bid on her, for when she comes to farrow her litter by Chief Buck O Thunder, the pigs will kill all your neighbors." Don't make the mistake of filling your catalogue with this sort of foot-notes. They are disgusting to the thoughtful breeder. If you received a mail bid do not run it to its limit or near there without genuine bids. When you put an animal up at public sale let it go for what it brings, or use your acknowledged right of one bid and stop the sale, and thereby gain the reputation of at least being honest.

Sheep on the Farm.

W. F. BAIRD, LACYGNE, HANS., BEFORE THE KANSAS STOCK-BREEDERS' ASSO-CIATION.

I have often wondered why it is that the people of Kansas, noted for their progressiveness, ready and eager to investigate and give almost everything a trial that seems likly to better their condition, whether it be something in the way of legislation, crops, live stock, or business enterprises, and usually adopting that which is found to be practical and profitable, have never given sheepraising the attention it deserves. This is one instance in which old Missouri can "show" Kansas.

The history and traditions of sheepraising on an extensivo scale as practised from the times of the sheep kings of Bible times, to that of our Western plainsman, has probably had something to do with a very common belief that sheep in order to be profitable must be raised on sheep-grazing land, or if kept on a farm, its greatest mission must be that of a scavenger.

Now, while it will turn many things into gold that have little or no value on a farm, some of which are a nulsance, at the same time, I know of no other kind of live stock that will consume the best forage and grain produced upon the farm at a greater profit than will a flock of good sheep.

Furthermore, there is no other animal kept on the farm which will equal the sheep as an assistant in maintainsoil fertility or reclaiming iming the poverished lands. Notwithstanding the natural productiveness of most Kansas farms, if we wish to maintain their fertility we must not indefinitely follow a system of soil robbery. A portion of our farm lands already show the evil effect of constant production of grain crops without proper rotation and renewing the fertility of the soil. It has truly been said that he who causes two blades of grass to grow where one did grow is a benefactor of the human family. What, then, of that individual who follows a system that will sooner or later diminish the producing capacity of the soil? Does not the successful business man strive to at least keep his working capital unimpaired? Each year our markets call for more wheats and breadstuffs, and if our producing capacity is diminished, how are we to

meet these demands. England with her high-priced land has long realized the advantages and benefits of keeping sheep on her farms. Not only does the tenant regard the sheep as a great rent-payer, but it is common for a landlord to stipulate that a certain number of sheep shall be kept on the farm that the fertility of the soil shall be maintained. Many of the farmers of our own country have learned the profits and benefits of the farm flocks, and the time, I believe, is not far distant when many others will do well to follow their example.

While it is not my purpose to try to induce the stockmen of Kansas to abandon cattle- and pork-production and engage exclusively in sheep-raising, I do claim that from 10 to 100 or more sheep could be profitably maintained on a very large portion of our farms in addition to the live stock that are already kept thereon. For a period of twenty-three years, I have been engaged in general farming and stock-raising where I now reside. I have been raising horses, cattle, and hogs during this entire period, and for the last sixteen years I have kept from 100 to 125 breeding ewes of the mutton type. I have endeavored to produce as good stock of all kinds as I could, and to keep them in the most profitable manner. I have found no other class of live stock more profitable in dollars and cents than the sheep. Aside from this fact, I find that I can now keep as much other stock as formerly in addition to the

Some of my fields produce twice as much grain as formerly and my grass lands are much more productive than they were. There is no great mystery connected with the care of the farm flock, but there is more to do than to purchase a flock and turn them out to shift for themselves without proper attention and shelter, if one expects to add to his bank account. Costly barns are not a necessity, but some sort of a shed that will keep them dry is needed. Let your roofs be constructed of shingles, boards, iron, or any material that will keep off cold rains, sleet, etc. I prefer a shed extending east and west, open or partly so on the south side, so arranged that it can be closed if bad storms occur. Give plenty of pure air, a dry place to lie down, and all the sunshine possible, thereby adding to the comfort and thrift of the flock and the profits of the owner.

Woven wire makes an ideal sheep fence, but if you have a good, threestrand barb-wire fence, such as every one should have who keeps cattle and desires to be on good terms with his neighbor, all that is needed is two or three additional wires at the bottom, and you have a good sheep fence, and at the present cost of wire this is not a very expensive item. I have several miles of this kind of fence, some of which has been in use fifteen years and has answered every purpose. Some say fear of dogs and wolves prevent them from keeping sheep. There are plenty of worthless curs in my locality and some coyotes, but in fifteen years I have lost by coyotes one old ewe, and one lamb. I have lost none by dogs. Corrall your sheep while lambs are young and keep plen-. ty of bells on the flock. You have all seen a dog lie down and howl at the ringing of a bell. It hurts his feelings somehow, probably his nervous system, and his relative the coyote is affected in the same way. The class of sheep formerly kept to a large extent in the West were not of a mutton type, and were kept primarily for wool, and were often retained for that purpose in the flock until the most profitable days were passed. Small wonder when it reached market its carcass met with little favor and sold for little money. However, your modern, well-bred, well-fed mutton lamb will be as large at a few months of age as the former ever grew, and the quality of its meat is as much superior to that of the former as that of your modern, well-bred beef steer excels that of the old-fashioned, longhorned Texas cow.

The result is we have a good market for mutton which is increasing at

prices that are very profitable to the producer. With lambs selling at 6 to 8 cents on the market, a ewe that will produce a lamb that will weigh 80 to 100 pounds at weaning, and annually a fleece that will sell for \$2 or \$3 certainly pays a good profit on her keeping. If you purchase a few good ewes, the best matronly looking grades you can get, and breed them to the best pure-bred rams you can purchase, of one of the mutton breeds that you prefer, you can raise a class of lambs that should be better than their dams, and sell well on the markets. By selecting the best of our ewe lambs each year and breeding to a first-class ram each time, you can soon build up a flock that will please your eye and strengthen your bank account. Your ram is one-half the flock, and in case your ewes are grades he is more than a half, when it comes to giving form and quality to a flock. Never use a grade ram on any kind of ewes, if you want to improve your flock. Any of the mutton breeds are good. Select the breed you like best, but be sure to get a good individual to head your flock.

Most people have a preference. I have mine, and as I find ready sale for all the breeding stock I produce, I can hardly be accused of trying to advertise my business when I tell you the Oxford Down is my choice, being the largest of the English Downs, our dark-faced mutton breeds. Mature sheep are large and shear a good fleece. They are prolific breeders. The lambs are large enough at weaning-time to sell on the market with plenty of weight. I have sold my lambs in June and had them average nearly eighty pounds and in August average ninety-eight pounds. This without a single one being cut out. My last clip of wool netted me \$2.50 per head at the barn. My lambs are usually dropped from the last of February until April, with a few sometimes in May. When grass fails in the fall I begin feeding corn fodder in the fields at some distance from the shed, continuing to do so all winter unless the winter is too stormy, thus giving the ewes plenty of exercise, which will cause lambs to be dropped stronger. At night I aim to have some clover or alfalfa hay in the deep racks. As winter approaches I feed some grain at night, continuing to do so until grass gets well started in the spring, when the ewes are shorn and turned into the pasture. As I have blue-grass, they usually get most of their living there until Christmas. In the absence of blue-grass, winter wheat or rye takes its place.

Kansas, surpassed by no other State in the production of wheat, equalled by few in the production of corn and forage crops, with a class of live stock and breeders of whom she may justly be proud, has only to realize the benefits and profits of the farm flock and to utilize her opportunities to add largely to her bank accounts, and the fertility of her farms, without materially encroaching upon any other of her live-stock interests.

Argentine Cattle-Growers Revel in a Rapidly Expanding Beef Business.

From where did Great Britain draw her outside meat supply ten years

Whence does she draw it now? What has brought about the change her supply in the source

What does it all mean to American producers and American trade?

These are questions that should be of vital interest to at least a great many millions of the eighty odd millions of American citizens who are concerned in the future welfare of American agriculture, the supremacy of the American 'live-stock industry, and the maintenance of friendly and most valuable trade relations abroad.

Great Britain, which of course in the main means England, has long been regarded as the greatest meatconsuming nation on earth.

Densely populated and limited in area of grain and agricultural lands adapted to live-stock production, she has long been compelled to seek beyoud the borders of her own possessions the beef, pork, mutton, and other





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SPRING DIPPING

Hand Dressing All Stock PUTS AN END TO

LICE, TICKS, MITES, FLEAS, MANGE, SCAB, RINGWORM, ALL SKIN DISEASES.

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of their products which the animals of her own dominion failed to provide in increasing quantities year after

IMPORTS ARE IN MILLIONS.

Ten years ago her annual imports of live-feed animals numbered 618,366 cattle and 611,504 sheep. Aside from that, she brought in 3,010,387 hundredweight of dressed beef and 3,193,276 hundredweight of frozen mutton from various countries. This was back in the year 1897.

At that time the United States was providing 67.3 per cent of all the live cattle she took, 30.6 per cent of the live sheep, and 70.2 per cent of the dressed beef.

Coming up to the year 1900-the fourth year of the ten-year period-it will be found that dressed meats had gained favor and 4,128,130 hundredweight of beef and 3,392,850 hundredweight of frozen mutton had been imported, while the imports of live cattle had fallen to 495,134 head and sheep to 382,822 head. Of these imports of live animals the United States still furnished 70.7 per cent of cattle and 37.3 per cent of sheep and 69.5 per cent of the dressed beef.

Argentine was then sending Britain very little dressed beef, but around 80,000 live cattle a year, or from 12 to 17 per cent of the cattle she imported.

During the last half of the year 1900 an outbreak of foot and mouth disease in Argentine, which had been making conspicuous gains in the matter of providing live stock for British trade, resulted in an embargo being imposed against both cattle and sheep, reducing the percentage of live cattle sent from that country to 7.8 per cent of the number brought into Great Britain against 16.9 per cent the year before.

BEGIN DRESSED-BEEF TRADE.

With the establishment of this barrier against their live cattle and sheep in 1900, Argentine shippers and large producers were forced to seek new arrangements for an outlet. The only means was through dressed beef and an expansion of the frozen mutton trade.

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At the end of the year 1901, or at the half-way point of the ten-year period, it was found that imports of dressed beef in Great Britain had increased to 4,508,746 hundredweight, a gain of almost 1,500,000 hundredweight on the trade five years before. Of this increased volume the United States had been fully holding its own, showing 70.5 per cent, while Argentine had drawn chiefly from Australasia and other countries for her 17.1 per cent of British trade in dressed beef.

YEAR 1901 OUR LAST BIG ONE.

The year 1901 was one of remarkable events in America's meat trade with Great Britain. With Argentine wholly out of the trade in live cattle and sheep the United States sent 81.8 per cent of the total of 494,225 live cattle and 78.2 per cent of the 381,481 ive sheep imported into Britain in that year.

The next "beef famine year" of 1902 when prices for all classes of live stock in the United States rose to the most extravagant figures paid in tweny years, cattle to \$9, hogs to \$8.25, and mutton, sheep, and lambs to \$6.50 and \$7.60, respectively—marked the peginning of the decadence of our export trade in beef.

In 1901 it had been up to a total of 291 hundredweight. Next year it ell to 2,290,465 hundredweight, or to 11.8 per cent of the total imports takn into Britain, while Argentine exports increased to 24.9 per cent.

BRIEFLY LIFTS ARGENTINE EMBARGO.

In 1903 Great Britain was prevailed pon to lift for a portion of the year de embargo against Argentine, and he latter country immediately began orwarding live stock, sending in that ear 27,817 cattle and 82,941 sheep, the tter representing 23.4 per cent of the otal British imports of live sheep for he year. But another outbreak of the ease speedily put an end to this nd the embargo was again placed, to rigidly maintained to this date ainst all pleadings for removal.

Since that year there has been an ceedingly rapid increase in Argen-

tine's trade in dressed beef, and fromen mutton trade has been constantly of large volume. Her beef trade has mounted from 27.7 per cent in 1903 to as high as 51.2 per cent of the entire imports of beef into Britain in the year 1905 and the last year-1906was 50.6 per cent of the entire busi-

FORCES US INTO SECOND PLACE.

This reveals the plain and unwelcome fact that the United States has been steadily receding from her conspicuous position in dressed-beef trade with Great Britain. In 1903 we had 64.8 per cent of it, the next two years we dropped more than 10 per cent a year, and last year did not quite hold our own at the alarmingly reduced percentage of trade with Great Britain.

In the year 1905 Argentine for the first time in the history of business relegated us to second place in dressed-beef exports, sending into Great Britain 2,580,152 hundredweight of beef, against our 2,232,206 hundredweight, or showing 51.2 per cent of the entire trade against our 44.3 per cent.

IS OUR MOST FORMIDABLE RIVAL.

This year she again leads us with a total of 2,795,913 hundredweight, against our 2,426,644, or as 50.6 per cent is to 43.9 per cent. Australasia sent in 5 per cent and the other countries only five-tenths of 1 per cent, showing that Argentine is the only really formidable rival with which we are contending as far as trade with Great Britain is concerned.

In our export trade in live cattle we are maintaining our position fairly, sending to that country last year 398,-887 head, which is within 18,000 of the largest number ever sent any year during the ten-year period. This is 71.1 per cent and the two preceding years showed that a little above 73 per cent of the British imports of cattle were taken from the United States. These cattle reduced to beef would mean something like an additional 3,200,000 hundredweight of beef that we are supplying our British custombut it nevertheless shows too plainly that we are not keeping apace with Argentine competition.

CANADA GETS A SHARE.

Aside from Argentine and the United States, the only country that has cut an important figure in British trade is Canada, which has exported annually live cattle varying in number from 88,598 head in 1901 to as high as 190,815 head in the year 1903. The percentages of Great Britain's cattle imports that have been drawn from Canada during the last ten years range from 17.9 per cent in 1901 to as high as 36.5 per cent in 1903, all other years being within that range.

Of live-mutton exports, Canada has furnished from as low as 6.4 per cent in 1898 to as high as 23.5 per cent of British imports in 1903, and down to 13.8 per cent last year, while the United States last year furnished 81.5 per cent, and in the business of other years the percentage has ranged from 19.9 per cent in 1899 to 82 per cent in 1905. In 1901, the year when the Argentine embargo was first placed, the United States sent 298,039 sheep to Great Britain, the largest number in the history of the trade.

CONSUMES MUCH FROZEN MEAT.

The frozen-mutton trade of Britain, which last year amounted to 4,088,689 hundredweight, was supplied by the following countries: Australasia, 57.9 per cent; Argentine, 35 per cent; Holland, 5.8 per cent; other countries, 1.3 per cent. America made a brief attempt to export refrigerated mutton about four years ago, but it was not attended with satisfactory results and was quickly abandoned.

A GREAT AREA OF GOOD LAND.

Argentine has a dominion of about 1,100,000 square miles, or more than one-third that of the United States proper. As yet it is quite sparsely peopled, containing hardly one-sixteenth of our population.

Lands of an excellent ranching character are still cheap and all the crops that are required for the most successful handling of live stock are grown in abundance.

No country on the face of the earth has made more rapid strides in the matter of improving live stock during the last decade than Argentine.

Her producers of both cattle and sheep, encouraged by the remarkable showing that they have made the last ten years, are aroused to the belief that they may by improved breeding, with their excellent climate and pasturage for the production of cattle, still surpass in quality, as well as quantity, the surplus beef production of the United States.

They are bending every energy to that end and the United States must look well to its laurels or they will be irretrievably lost.

COLONEL HARRIS FORCASTS RESULTS.

Col. W. A. Harris, former United States Senator from Kansas, and now vice chairman of the American Reciprocal Tariff League, has given special attention to the matter of Argentine beef trade. He says: "The last two years, as far as volume of trade with Great Britain is concerned, Argentine has forged ahead of us. Measured in dollars and cents, there still may be doubt that she leads us, as our beef in the main is yet of considerably higher class, but she is rapidly overhauling us in the matter of quality and will soon be contesting with us on an equal footing as to blood in cattle, and with a decided advantage in the matter of cheap grazing lands and favorable climate for beef-production.

"IMPROVE CATTLE AND TRADE FAIR.

"Then, too, she has a decided advantage in trade, as England is naturally favorable to a fair trade country. Steamer facilities for this carrying trade are excellent. The beef-laden ships of Argentine reaching British shores are a welcome sight, for they are soon to return as heavily laden with the goods which England produces in abundance to exchange for meats and grains. It is a fair trade proposition, and the country which does not soon get in line with other countries in the matter of reciprocal trade relations is soon going to find itself at a fatal disadvantage. If I were an Englishman I should get my meat where I could secure it on the fairest trade basis. America must keep steadily on, improving the quality of her live stock and attend at once to the matter of encouraging forcign trade by the application of reciprocity through the medium of a dual tariff or otherwise, or at the end of another ten years she will find that Argentine and other fair trade nations are forging to the front in foreign trade far more alarmingly than they are to-day."-Chicago Drovers' Tele-

A Meddler Demonstration.

May 24, 1907, will be Meddler day in Wichita. Hebbard & Roy, of Peck, Kans., who own the World's Fair champion, will sell at that time and place one of the greatest offerings of Poland-China brood-sows that have passed through the sale ring this year.



"Best By Every Test." U. S. GOVERNMENT REPORT.

Why?

Because they are durable, constructed of the best materials; dependable, no small parts to get out of order; strong, because they are designed by a corps of competent engineers. If quality interests you, write us about your needs. Built for over twenty-five years—sizes 2 to 50 horsepower for all kinds of farm and stationary power.

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Do not let your horses work with sore shoulders. Harness, Saddle or Cellar Galls positively cured with three or four applications of Beardslee's Gall Cure. Also a sure preventive for seft or green horses from becoming salled just when you need them to do your heavy spring and summer work.

I will send a full pint of Beardslee's Guaranteed Gall Cure postpaid to any part of the United States for 50 cents, with a guarantee te cure or money returned. Also other valuable information to horse owners free.

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The Beardslee Co. 37 Belden St., Boston, Mass. Agents Wanted in Every Locality

It's Easy

to hatch them, but it takes the proper feed to raise them. Otto Weiss Chick Feed is scientifically prepared by a poultryman of 25 years experience. A trial will soon convince.



Products for stock and poultry as feed and condi-tioner. Guarantee everything we sell. Free circular.

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THOS. OWEN, 2801 West Euclid Avenue, Ind. Phone 6306, is Topoka agent for these

DOWLING'S FISTULA AND LUMP JAW CURE.

A scientific remedy and sure cure for flistula, polievil and lump jaw. We send the cure on trial; use
it carefully. If it cures your animal, send us \$2.
If it does not, don't. State how long affected, if
fistula, pollevil or lump jaw; whether swollen, or
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Order Your Stock Food Direct

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.

Stong-Roats Mfg. Co., 201 N. 2d St., St. Joseph, Me.

Gives **Always**



ADDRESS DEPT. K.

That's why GLOBE STOCK DIP is always reordered after it is once used. Why use a dip prepared by a novice when you can buy it direct from a company that has had years of experience, and are making a dip that always gives satisfaction. Globe Dip will be shipped you at the following prices: Half gal. can 80c; gallon cans \$1.50; express paid. 5 gallon cans \$5.50; 10 gallons \$10.00; freight prepaid. 20 gallons, 90c per gallon; 25 gallons, 850 per gallon; 50 gallons, 70c per gallon; F. O. B. Kansas City. WHY NOT ORDER NOW.

Robinson ij٥.,

409IGRAND AVENUE,

KANSAS CITY, MO.

Their offering will consist of forty-five of their choicest sows, every one of them sired by champions and first-prize winners, and every one of them as good individually as they are well bred. Thirty of these sows will be bred to Meddler, the remainder to some of the great prize-winning boars of the breed. They will be properly fitted, and in the best possible condition to go on and make good in the hands of their purchasers.

On the evening of the 23d, Messrs. Hebbard & Roy will provide a banquet for the breeders, and Secretary Mc-Fadden, Linc Lukens, Colonel Mc-Cracken, Colonel Correll, Wm. Crothers, and others will speak. Breeders are cordially invited to be present, whether they expect to buy or not, attend the banquet, and inspect this great offering.

A more extended notice will be given in a future issue of The Kansas Farmer. Watch for their advertisement which will appear later.

Large Shipment to the United

In the course of their frequent shipments to the United States from time to time Messrs Truman give ample evidence that they mean to keep up to the high standard that they already set in this respect. This week a costly shipment has again been made to the Pioneer Stud Farm, Bushnell, Ill. Among the stallions is a 2-year-old, Bulwick Lion Heart, from Messrs. Forshaw & Sons' stud, of massive proportions. His sire, Leeds Lion (by Nailstone Coeur de Lion) was a horse of some 2,500 pounds weight. His dam, Knighton Flash Girl, also belonged to Messrs. Forshaw and was a frequent prize-winner in this country. Thorney Teamster 2d, a very good 6-year-old stallion, goes from the stables of Mr. Joseph Topham, Thorney, his sire being Thorney Topsman, and his dam Thorney Spot. A beautiful 6-year-old came from Mr. M. Pate, of Ely, Girton Senator, his sire being Markeaton Royal Harold, and his dam Scropton Princess. Another Shire stallion was bought from Mr. W. E. Vawser, March, Marden Lad, a 4-year-old by Hertfordshire Lad. He secured a second at the Royal, and numerous firsts at other shows. Mr. J. Wilson, Murrow, contributes a massive 4-year-old stallion, Gedney Premier, by Mourton What's Wanted, from Star by Extraor-dinary.

The Hackney stallions number two.

stallion, Gedney Premier, by Mourton What's Wanted, from Star by Extraordinary.

The Hackney stallions number two. One comes from Sir Walter Gilbey, namely, the 3-year-old Bouncing Connaught. He is an experienced goer, and has taken several prizes. The other is a 16-hand 1-inch bay, Bally Breeze, bred by the Right Hon. F. Wrench, and he is a splendid walker, with the necessary action.

The fillies were an excellent lot, and the Shire studs from which they have been recruited should be a sufficient guarantee of their quality. No fewer than five 2-year-olds go from the Boro' Fen Stud of Mr. F. W. Griffin, and Boro' British Queen and Boro' Empress Queen are sisters by the famous Bythwood Conqueror, and are out of the noted prize mare, Rokeby Hypatia. Another is Easter Eve, bred by the Hon. Louis Greville, a bay also by Blythwood Conqueror and out of Easter Gift. Boro' Wallflower has also a remarkable strain of blood running through her, for she has as her sire the celebrated horse, Nendre Conqueror by Prince Harold. The last of the five is Orange Blossom by Boro' Menestrel, who was sired by the famous Menestrel.

Mr. Thomas Gee, Thorney, sends a

Menestrel.

Mr. Thomas Gee, Thorney, sends a couple of grand 2-year-old fillies, namely, Wrydelands Queen, sired by Holker Whip and out of Gothic Pansy; and Wrydelands Gem by Blythwood Hero, out of Wrydelands Valentine. Mr. Ernest Gee, Thorney, contributes five of excellent character. The 3-year-old filly, Elder Bells, is by Buscot Harold, and she has for dam Elder Queen. The others are Elder Buttercup by Knebeworth Conqueror, out of Elder Pride; Elder Black Bess by the same sire, out of Tolworth Regina; Elder Bessie by the same stre out of Elder Gift; and Beachendon Caronia by Thrupp Rival, out of Beachendon Diamond.

Mr. C. Morbey has parted with

mond.

Mr. C. Morbey has parted with the following: 2-year-old fillies—Beechurst Primrose by Moulton Ring-leader, out of Shelford Sash; and Beechurst Beauty by Locomotion, dam Tutbury Bounce; 4-year-old mares—Barrow Gem. sire Condor Harold; and Dodgdyke Duchess, sire Moorland Paxton.

Dodgdyke Duchess, sire Moorland Paxton.

There are a trio from the Bury Stud of Mr. John Rowell, all fillies, namely, Bury Breeze, a 2-year-old, sired by Tom 7th; Bury Bangle, a 3-year-old by New King; and Bury Dolly, sired by New King; and Bury Dolly, sired by New King. Mr. H. H. Truman, of March, also despatches the following: Mare, March Flower. sire St. Albans, which was purchased by Mr. W. Bellamy, of Wimblington, for 400 pounds, and her dam is by Helmdon Emperor, who was bought some years ago by Mr. J. H. Truman from the late Queen; 2-year-old fillies—March Rose, sire Normoor Statesman, dam Bury Rose; March Blackbird and March Ladybird, both sired by Mr. Truman's old horse, Ben Bolt. The following quartet have been obtained from Mr. W. E. Vawser, March: Fillies—March Whitefoot, sire West Fen Harold, dam West Fen Beauty; March Diamond, sire Clumber Fashion, dam West Fen Diamond. Altogether about forty were shipped, and sailed on board the Minnetonka on Thursday morning.—London Live Stock Journal.

Carothers' Durocs.

Carothers' Durocs.

C. G. Carothers, formerly of Abilene, Kans.. and who was well known in that locality as a breeder of pure-bred Duroc-Jerseys, has purchased a fine farm, consisting of a half section near Peabody, Kans., and will continue raising his favorite breed of swine in his new location.

Mr. Carothers has eleven sows bred for early spring farrow and a number of them have fine litters at the present time. His sows are of the large, smooth type with lots of quality and

are by such sires as Ohio Chief, Shamrock, Cock Robin, and Clement.

His herd-boar, Missouri Duke, is a massive fellow of great scae, but with lots of quality. He is by Oom Paul 2d and is a half brother to Joe 29271, who was grand champion under 6 months at the World's Fair.

Starting with such foundation stock Mr. Carothers will be on the market with some rich stuff this fall. Watch for his advertisement in The Kansas Farmer.

FARMER.

J. H. Becker's Poland-Chinas.

J. H. Becker's Poland-Chinas.

One of the most successful and upto-date breeders of Poland-China swine in Harvey County, Kansas, is J. H. Becker, of Newton. He is an excellent judge, and when buying to improve his herd, secures both the best breeding and quality. His herd-boar is Dandy Rex 42706, which was bred by A. P. Wright, Valley Center, Kans. His sire is Prince Proud 32727, he by Proud Perfection 23799 by U. S. Perfection Jr. Dandy Rex was first in pig herd at Kansas State Fair 1905; first in class at Colorado State Fair 1906; and first in class at Wichita Kansas Fair. His sire won first and sweepstakes in aged boar class at Kansas State Fair 1905. His dam is by a first-prize boar, and his grandam by a champion. Dandy Rex is as good individually as he is well bred, being long and deep, with a good strong back, fine head and ears, heavy hams, good bone, and stands up well on his toes. He has lots of dash and quality and is an excellent breeder.

Mr. Becker's sows are of good individuality and breeding. Several of them are by Emperor Chief, he by Empire Chief, who headed the champion herd at Iowa and Nebraska State Fairs, and is a brother to over 100 State Fair winners. He has ten of these sows bred for spring farrow and a number of them already have fine litters. Mr. Becker reports a brisk demand and at the present time is sold out, but will have some good ones to sell a little later. Watch for his advertisement in THE KANSAS FARMER.

Chris Huber Raises Good Poland-Chinas.

Chris Huber Raises Good Poland-Chinas.

Chris. Huber, of Eldorado, Kans., is one of the old-time breeders of the State. He has raised Poland-Chinas for the past seventeen years, and still finds them a good kind to breed. Like all good breeders Mr. Huber is constantly striving to improve the quality of his stock, and has recently placed at the head of his herd, Mischief Maker Jr. 42890, a good son of the great Mischief Maker, and a half brother of the World's Fair champion, Meddler, who now heads the herd of Hebbard & Roy at Peck, Kans.

Mischief Maker Jr. is way up in quality and fit to head a good herd. He has size, quality, and finish, and will mate well with Mr. Huber's type of sows. The females of Mr. Huber's sherd are the big-boned kind, but are smooth, with splendid breeding qualities. Sixteen are bred for early spring farrow, and nine of these now have fine litters that average seven pigs to the sow. All stock is ranged on alfalfa pasture (with which Mr. Huber is liberally supplied), and are developed along the lines that give the best results. Mr. Huber reports a splendid trade and is practically sold out, but will be on the market this fall, with the right kind of stuff.

I. B. Good s Poland-Chinas.

I. B. Goods Poland-Chinas.

I. B. Good, Peabody, Kans., is another new breeder in the Poland-China world. He is starting out right with seven good sows bred for early spring farrow. His sows are of the smooth, roomy type that farrow large litters and raise them. They are by such sires as Kansas Chief, Mischief Maker I Know, Faultless Junior 2d, and Klever's Perfection. Mr. Good has recently placed at the head of his herd the fine young boar, Bigbone Chief, by Highland Chief Junior, who was first in class at Nebraska State Fair 1905. Bigbone Chief is a good individual with lots of quality, and will cross well with Mr. Good's type of sows. Mr. Good has nothing that he wants to sell at the present time, but expects to have plenty of the right kind this fall.

Gossip About Stock.

Gambrel 2.10½, with thirty-eight standard performers, six in the 2.10 list, needs no introduction to Western horsemen. He will be sold to the highest bidder at the dispersal sale of Axtell & Warkentin, at Wichita, Kans, May 8. Secure a catalogue from Dr. J. T. Axtell or Mr. C. B. Warkentin, Newton, Kans.

Mrs. C. S. Cross, of Emporia, has decided to make a dispersion sale of her entire herd of select Heretord cattle, the same to be held at Fair Acres Farm on May 15. We regret to announce the dispersion of such a magnificent herd, but it will certainly be a bargain day for discriminating buyers. Watch for further announcements in The Kansas Farmer.

A fat, pure-bred Aberdeen-Angus steer bred by G. F. Wagner of this place was sold last week by H. S. Keller to the Kansas State Agricultural College at Manhattan, where he will be fitted for and shown at the leading fat stock shows in Kansas City and Chicago next fall. It speaks credit to our community that we are raising what goes to make up the cream of the leading fat stock shows of this country.—Enterprise Push.

Manwaring Brothers, owners of the famous Ridge View Herd of Berkshires, Lawrence, Kans., have sold all of their bred sows and gilts and are now busy selling a good bunch of fall boars. Just lately they sold fifteen head to Chas. E. Sutton, of Lawrence, who sure knows a good Berkshire; three gilts to Wm. McConnell, Linwood; one boar to Allen Kratz, Michigan Valley; one boar to John Hadel, Savannah, Mo.; and one gilt to Raymond Broth-

ers, Lawrence. The Black Robin Hood blood from which the great Master-piece sprang is what counts, and the Manwarings have it in plenty.

Manwarings nave it in pienty.

In a letter thanking Mr. C. E. Shaffer of The Kansas Farmer for recommending the purchase of the Poland-China boar, Challenger, at the O. B. Smith sale in November, Mr. R. H. Weir, owner of the Decatur County Herd of Poland-Chinas, at Oberlin, Kans, says: "Challenger is a good grandson of Keep On and now weighs over 500 pounds at 19 months. He has great length, good bone, and is as active as a pig. Best of all, he is a breeder of the right kind. We now have nine litters sired by him that number eightytwo pigs. Seven of the sows bred to him farrowed seventy-one pigs." No wonder Mr. Weir is pleased.

Catalogues are now out for the fifth annual sale of the Marshall County Hereford Association occurring April 17. The very representative offering this year consists of 34 good bulls and 14 head of cows, 10 head bred. The contributors to this sale include the following well-known breeders: E. R. Morgan, W. B. Hunt, Miss Lou Goodwin, D. L. Wescott, C. A. Spratt, Walter M. Morgan, Cottrell Brothers, Geo. E. Miller, W. A. Gilson, R. E. & A. W. Gibson, S. W. Tilley, A. Borck, and F. W. Preston. Intending purchasers will find the right sort of dosirable Herefords and can buy them at satisfactory prices. Send for catalogue to F. W. Preston, secretary, Blue Rapids, Kans.

Ideal Lady, the Poland-China sow that topped the C. A. Lewis sale at Beatrice, Neb., was bred to Challenger, the boar he bought from F. A. Tripp & Son, Meriden. Kans., at the American Royal sale last fall. Mr. Lewis paid \$297.50 for Challenger, and topped the Royal sale. He is evidently making good. Mr. Tripp, who bred Challenger, says he has some pigs of Challenger, says he has some pigs of Challenger breeding that will make breeders "sit up and take notice" this fall. As a result of his advertising in The Kansas Farmer Mr. Tripp has sold everything he has that is old enough except one gilt that is lame in one hind leg, and he refused \$40 for her. From his Kansas Farmer advertising he sold a gilt to St. Anthony, Idaho, and the buyer is more than pleased and has already engaged some of her prospective litter to his neighbors. The Tripp herd is a good one.

A. P. Wright, Valley Center, Kans., that successful anad progressive breeder of Poland-Chinas, writes The Kansas Farmer as follows: "I have just bought a fourth interest in Corrector 2d 87699, the reserve champion and first prize yearling at tht World's Fair at St. Louis. He won first in young herd and is the sire of the \$1,800 Louise of Oakwood, the champion at the Illinois State Fair last year. Sows bred to him averaged \$245 in Lukens' sale, and his own get in the same sale averaged \$990. He is the finest finished, bestbred, and most valuable of any big or little hog in America. Corrector 2d was selected by four as progressive and up-to-date breeders engaged in the business, who united on him as their choice among the many boars found at the Goodrich Stock Farm, Linc. Lukens, Frank Fites, and A. P. Wright. With such owners and such records for a herdsire, his worth is incalculable. I wish The Kansas Farmer every success.",

New Advertisers.

New Advertisers.

Albany Hotel, New York City.
D. C. VanNice, Double Standard Polled
Durham bull.
Davis, Welcome & Co., eastern money.
C. C. Wallace, 960 acres.
Garlinghouse Realty Co., farms, etc.
R. J. Yust, White Plymouth Rock eggs.
A. H. Miller, famous Barred Rock eggs.
F. A. Carrier, orchard farm.
Dr. W. O. Coffee, eye booklet.
Joe Liles & Son, wanted.
Loftis Bros. & Co., dlamonds.
Dodd & Struthers, lightning rods.
Pasteur Vaccine Co., blackleg cure.
American Beet Sugar Co., men wanted.
Everett Hayes, Mgr., Shorthorn Sale.
F. C. Vincent, Double Eagle Mining Co.
Findlay Engineering College, special
course.
Central Business College, save \$15, etc.
G. R. Davis, White Plymouth Rocks.
Col. Warren Russell, S. C. Brown Leghorns.
Filson & Miller, fine ranch.

horns.
Filson & Miller, fine ranch.
W. L. Alexander, buy or sell realty.
H. B. Clark, Hereford bulls.
Cauthorne Real Estate Agency, Jewell County alfalfa-seed.

Are **Feeding** Lice

> Don't try keeping hens and lice at the same time. If you do, the lice will have the benefit, the hens the annoyance, you the experience. Get rid of lice before experience costs too much. Dust hens, nests, platforms, every nook and cranny with

Instant **Louse Killer**

One or two applications will rid the house and hens of every mite and body Instant Louse Killer kills lice on poultry, horses, cattle, sheep ticks, bugs on cucumbers, squash and melon vines, cabbage worms, slugs on rose bushes, etc. It is also a perfect disinfectant and deodorizer. Sold on a written guarantee. Comes in shaker-top can for convenient use winter or summer. See that the word "instant" is on the can, as there are many imitators.

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WANTED-Young Men for Firemen and Brakemen

We prepare you by mail in from 4 to 6 weeks for either of above positions. More calls recently for our competent men than we were able to supply. Positions secured as soon as competent. Rapid promotion. Remember, this Association is directed by Railgroad Officials of four of the largest roads in the U.S. If you want to be a railroad man, fill in and send us this coupon, and we will send you our free book on railroading.

National Railway Training Association OMAHA, NEB. or KANSAS CITY, MO

Agriculture

Alfalfa Questions.

On the 28th day of last September I red about two acres of alfalfa on llet ground. I plowed the ground ring dry weather, and it being a litlate for seeding, I failed to get a od stand. I looked the field over t Friday and concluded the best would be to prepare a new seedat once and sow alfalfa again. I the seed, but looked at the field ain yesterday and find quite a good my plants that did not seem to be sight when I looked at it on Fri-I took a step each way making ut a yard square and counted the nts. I did this in different parts the field. I found fifteen and twenplants in a square yard. The und has a hard crust on it and is of little cracks. I drove across field and back with a sloping-tooth row, but it didn't seem to tear it any. To disk it would mean to ve the alfalfa covered with a lot hard clods from one to two inches ck. The ground is upland and is very fertile. It has a clay subsoil has been in corn for a good while il last year. I did not manure it I knew there was buck plantain d in the manure.

Would it be better to make a new d-bed and sow the alfalfa regardof the old stand, or would it be ter to wait a few weeks and try to we what I could of the old stand? me of the plants look weakly. T. L. THOMPSON.

Jackson County.

should judge from your letter that have perhaps a half a stand of alfa, provided the plants which you now count survive. It will hardpay to leave this alfalfa, and I uld not take very great pains in eeding the field to save these ints, since they will only interfere th the new seed getting a start. will probably have to wait for a n in order that the ground may bee softened at the surface, then ble disk and harrow, putting the and in a mellow, finely pulverized dition at the surface, but do not sen deep. Sow the alfalfa just as n as the weather conditions permit to prepare a good seed-bed. A dressing of manure on this land vious to disking would help matery in getting a start of alfalfa. m your description I take it that soil is deficient in humus and this ses it to bake and crack. I have lled you a copy of bulletin No. 134 seeding alfalfa. A. M. TENEYOK.

Alfalfa Seed-Bed.

į•

have ten acres of ground that was red last August and sown to ala late, but the alfalfa has not de a stand. This is the same piece rote you about a week or so ago. ground has a crust of about oneth inch and can not be pulverized ciently now to prepare a seed-bed alfalfa. I have concluded to sow t fall. Which had I better plant the ground this spring, millet or

also turned the entire crop of cowunder on fifteen acres last fall sowed to wheat. Will not this bination be all right to follow up alfalfa this fall?

lease answer as soon as conven-, for if the oats are best to sow, ant to put them in at once.

ckson County. J. H. RILEY. my judgment there is little diface between oats and millet as s to precede fall sowing of alfalfa. on could make use of the millet perhaps the millet might be pred. I would prefer oats, however, allet grown for seed. In case you either oats or millet, doubtless disking and harrowing after hara more favorable seed-bed may prepared for sowing alfalfa than be prepared by plowing.

heat makes a good crop with h to precede fall sowing of alfal-nd the wheat-field which was mad by a crop of cow-peas ought to

How do you Shred Fodder-Grind Feed-Pump Water-Saw - Wood—Shell Corn?

engine?
The easy way, the cheap way, the quick way, and the labor-saving way, to do these jobs and many others on the farm is with gasoline engine

It will cost you but 5c an hour to run an I. H. C. gasoline engine generating three horse power. The engine is always ready when you want it—right when you want it—you don't even need to light a fire to start it. Just close the switch, open the fuel valve and give the flywheel a turn by hand—that's all.

O you do it in the old slow handpower way, or do you do it up
in a hurry with a gasoline
ine?

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How they waste some.

How they

Learn all about I. H. C. Engines. -About their simple construction.

INTERNATIONAL HARVESTER COMPANY OF AMERICA, CHICAGO, U. S. A.

(INCORPORATED.)

hay. The grass is a native wild grass usually most abundant in rich, moist bottoms, and is known as tall panic grass, the scientific name being Panicum virgatum. It is a valuable hay

grass and there is nothing to be apprehended from it. H. F. ROBERTS.

The Sugar-Beet a National Problem.

EDITOR KANSAS FARMER: -- If the sugar-beet industry does not in time supersede all other lines of agriculture throughout this country, it must take front rank, and that within the near future, in the onward impetus of agricultural pursuits in the United States. Already the problem in its entirety—its agricultural and its in-dustrial phases—may be looked upon as a National one. We have but to recall that this country is paying out annually in the near neighborhood of \$125,000,000 to foreign nations for sugar, considering at the same time the untold possibilities of beet-sugar as an American product capable of gratifying the entire demand created by home consumption, and we find our selves face to face with a problem of National gravity.

Few are cognisant of the impor-tance, portential and established, of the rapidly expanding beet-sugar and sugar-beet industry. This growth is almost incredible in its direction and pace. While it is true that at one time Massachusetts possessed a small sugar-making plant, and California at the same time erected another, making the industry in the nucleus state transcontinental in scope, still the first genuine success came to the factory at Alvarodo, Cal. Europe took the lead in this industry. To-day her accessible territory is making 6,000,-000 tons of beet-sugar; yet both in Germany and France beets yield but little over fourteen tons to the acre, while the first experiment in Kansas in instances ran as high as twenty to thirty tons. And, too, over there in Europe they pay the farmer only onehalf what he receives in America per ton. Europe makes fifteen pounds of sugar from one hundred pounds of beets; in America, or in Kansas at least and Colorado, 250 pounds are

realized from one ton of roots. The first wail of this young infant, the beet-sugar industry, was heard on American shores in 1830. So scanty was its nourishment, however, that in 1890 but two factories were in successful operation. Then came its stridal growth. In the past sixteen years the industry has developed into that lusty, certain manhood which demands now its full rights and suffrage of industrial citizenship. Will the taniff revisors hear? Will death and strangulation terminate so promising a growth and beneficial existence? With Michigan paying to her farmers cold cash at the rate of six millions for the sugar-beets they produce every year, consumed by sixteen facteries in that State; then glancing

I. H. C. gasoline engines are made in two styles and several sizes:— Vertical, 2 and 3 horse power. Horizontal (portable and stationary), 4, 6, 8, 19, 12, 15 and 20 horse power. Ordinary stove gasoline is used for fuel and there is no danger whatever.

-About their strength and dura-bility. Go to our local agent for a talk about power for the farm, or if this is not convenient, write for catalog.

MOISTURE

Should Be Savedi

Our Sub Surface **Packer**

Topoka Foundry & Machine Co. 318-330-322 Jackson Street,

Patenta developed. Ideas worked out.

New Wheat Lands Intho Canadian West

5,000 additional miles of railway this year have opened up a largely increased territory to the progressive farmers of Western Cunada, and the government of the Dominion continues to give one hundred and sixty acres free to every settler.

The Country Has No Superior

Coal, wood and water in abundance; churches and schools convenient;



SOLD ON Months' Trial.

Holland Engine Co., Dept. S. CodariRapids, Ia:

Well Drills and Drillers' Sup

be in good condition to seed alfalfa this fail. If the ground is not too weedy, I would prefer disking and harrowing to plowing. However, it may be advisable to plow, in which case plow shallow, cuitivating the land at intervals after plowing with the harrow, disk, or Acme harrow, in order to put the soil in a well-settled, pulverized condition by the last of August or first of September, when the alfalfa should be sown.

This is a peculiar season, but I do not consider it too late to sow alfalfa this spring. If it rains soon a very good seed-bed can be prepared upon the field in which you wish to sow the alfalfa, and it may still be advisable to sow this spring rather than to wait until fall. A. M. TENEYOR.

Kafir-Corn Questions.

I have about forty acres of prairie sod which I wish to break, and plant to Kafir-corn for the seed. When and how would it be best to plant? Have you any clean, pure black-chaff white Kafir-corn for sale, and at what price?

All Kafir-corn here is mixed too much with cane to suit me. I would like to get pure seed. Will you sell enough seed to one person to plant forty acres? How much seed would J. J. ABLARD. be required?

Kingman County.

I would advise you to break the sod as soon as possible and prepare the seed-bed by thoroughly disking and harrowing, planting the Kafir-corn about the first part of June. For seed-production, plant in rows three to three and one-half feet apart, and drop the seed from two to four inches apart in the drill-rows. You may use an ordinary grain-drill by stopping up a part of the feed cups and setting the drill to sow about three pecks of wheat per acre. An ordinary cornplanter may be used, providing you have Kafir-corn plates. For more detailed information on the planting and culture of Kafir-corn, I have mailed you a copy of a circular letter discussing this subject.

We have a considerable supply of a very pure strain of Black-Hulled White Kafir-corn, which we have been breeding for three years, price \$1.25 for first grade seed and 75 cents per bushel for second-grade seed. The different grades of seed are similar, the difference being in selecting the heads of the Kafir-corn before thrashing. Both grades germinate equally well and are pure seed. It will require probably four or five bushels of the seed to plant the forty acres. We can let you have this amount of the second-grade seed, or we could let you have one bushel of the first grade and the balance second grade. A. M. TENEYOR.

Tall Panic Grass

Mr. L. O. McCane, of Benton, Butler County, sends a grass for identification, which he found in a mixture of

across Nebraska, Kansas, and Colorado over to California, and the searcher for history and truth discovers a marvelous expansion of this industrial movement that has brought to pass an undreamed-of transformation in the West. The West, did I say? Yet what of the East? Ah, you can not stay the tide of such a progress as this. You must gaze as upon a parade in which you feel a patriotic part -gaze upon the stridal expansion eastward of the ever-lengthening beetfields of an overflowing West, watch the industry bolt the Mississippi River, cross the great Western corn-belt of the prairies, conquer the teeming soil of the Middle Atlantic States and swirl in its train the warrant for factories to consume its crop, as it touches the climax of the Atlantic Coast. Sugar-beets will grow there. They must. Five months of average American weather, whether of the Atlantic or the Pacific zone, will mature a sugar-beet. And frost is not an atrophe to the saccharine root, the white, hardy sugar-beet, for Michigan is one of the leading beet-producing States, and she is very near to the Northern border.

The beet-sugar industry is rapidly extending eastward. Not three months ago there was formally dedicated in Kansas the first plant to be erected in that State. It cost one million dollars. That fact alone indicates business and permanency. This factory might have cost its builders but six or seven hundred thousand dollars and still made just as white sugar and turned it out just as rapidly-for a few years. Should you ever take a trans-continental trip, make it a point to ticket over the Santa Fe on its famous "California Limited" and secure stop-over privileges at Garden City. This, you will find, puts you down in Kansas, and it is at this point that the first beet-sugar-making plant in that State has just been completed. Out in the country, close to the city itself, north, east, west, south, will you find the beet-raising farmer. If it be at the right time of the year you will find him busy topping and hauling his beets. After you have watched for a while the dusky Mexicans and the sprightly Japs down on their knees wielding the heavy topping knives, resembling decidedly the deadly machete, you may get to talking with the iarmer himself, who is there busily overseeing the rush of work.

On the sides of the patent beetdumping-wagon would be such a placard as this, lettered in bold gothic type:

"W. H. FANT, CONTRACT NO. 89."

From Mr. Fant himself you will learn that he raised forty acres of beets, averaging pretty nearly twenty tons to the acre. At the most generous estimate, plowing, planting, weeding, thinning, topping, and hauling did not cost him over forty dollars per acre. He gets five dollars a ton for his beets. Speak to him of his former crops before the advent of the sugarbeet, and he states that wheat and corn are considered the staple crops of the West. To realize twelve or fifteen bushels of the former to an acre. and receive fifty cents per bushel, was doing well. Of corn he obtained sometimes as high as thirty-five bushels per acre, for which he deemed himself fortunate should he get a gross return of seventy-five cents per bushel. made a mental comparison of these crops with the actual profits of sugarbeets, and could not wonder at the prophesies of "National importance"

ing industry has been tried.

It was at a banquet given in honor of the Governor of Kansas, in conjunction with the opening of the first sugar factory in the "Sunflower" State, that R. P. Davie, at that time head of the beet-sugar interests there, expressed himself as believing in the ultimate expansion of this enterprise to such an extent that not only would every county in Kansas (it was a Kansas audience he was talking to), possess its own factory, but the move-

for the great new industry. What Col.

W. H. Fant, of Garden City, has done,

thousands of other equally successful

producers are doing throughout the

great West, or wherever the beet-rais-

ment would rapidly push eastward to an at present unknown limit. Follow this out in the ultimate, and we face the National aspect of the problem. Its problematical phase lies in the tariff question. If we admit free the crude sugar product from the Spanishspeaking sources of production, then will we kill the beet-sugar industry in the United States. We are now making but 10 per cent of the sugar we consume, while we might manufacture it all. We are eating sugar in America at the rate of about 6,720,000,000 pounds per annum. Significant is the fact that the world makes more beetsugar than cane. In other words, we "are coming to it"-a consumption of beet-sugar entirely, some day.

In time beet-sugar will crowd canesugar off the market. This is more than prophesy. This industry is dependent upon the tariff, which makes every American citizen vitally concerned in what may be done to this much-mooted factor of commerce. It must not be forgotten that it costs more to make sugar from beets than from cane; yet what of the value of a distinctly American product? Reduction of the tariff will immeasurably injure the prospects of the little beet that possesses such saccharine constituents. Were the cane-sugar tariff removed, it would be ruinous to the American end of the sugar interests outside of the cane sections of the South.

One of the grandest possibilities of our American agricultural future is the development of the beet-sugar industry to such an extent that it will not only surfeit home consumption so completely that profitable exportation of this product into the very countries from where we now receive our supply will become a commercial reality; but this growth will elevate the agricultural values all over our land, converting the barrenness of the Great American Desert into profit-producing acreage, and the experimental fields of Eastern sections into established beet-producing centers where the deep-rooted white sugar-beet will supercede all less marketable products JESSE H. BUFFUM, of the soil.

Sugar-Beet Specialist.

Garden City, Kans.

Cost of Hauling Crops by Wagon from Farms to Shipping Points.

At an early date the United States Department of Agriculture will issue bulletin 49 of the Bureau of Statistics, prepared by Frank Andrews, Transportation Expert of the Division of Foreign Markets. This bulletin is a report on the cost of hauling crops from farms to shipping points. The figures given are based upon returns from nearly 1,900 counties and cover practically the entire farming area of the

The average cost to the farmer of hauling wheat from farms to shipping points is given as 9 cents per 100 pounds, the average distance hauled is 9.4 miles, and the average wagon load of wheat weighs 3,323 pounds, thus containing about 55 bushels. For cotton, the average load is 1,702 pounds, distance from shipping point 11,8 miles, and cost of hauling 16 cents per 100 pounds. Reduced to terms of cost per ton per mile, the rate for wheat is 19 cents and for cotton 27 cents.

The highest cost of hauling is for wool, which is carried on an average 39.8 miles from farm or ranch to shipping point at a rate of 44 cents per 100 pounds for the entire distance. The lowest cost for any one product is for hemp, which is hauled from farms to shipping points at an average cost of 6 cents per 100 pounds, the average distance hauled being 5.2 miles and the average load of hemp weighing 3,393 pounds.

For the entire distance from farm to shipping point corn, oats, and barley are each hauled at an average cost of 7 cents per 100 pounds; hay, flaxseed, rye, and timothy-seed, 8 cents; wheat, potatoes, and beans, 9 cents; tobacco and live hogs, 10 cents; rice, hops,

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and buckwheat, 11 cents; apples and peanuts, 12 cents; vegetables (other than potatoes) and cottonseed, 15 cents; cotton and fruit (other than apples), 16 cents; and wool, 44 cents.

Except in the case of wool, practically all costs represent the expense incurred by farmers in hauling their own produce. Wool is hauled in the Rocky Mountains largely by regular freight wagons, and the wool-growers pay for the hauling at varying rates per 100 pounds.

The total tonnage of arm products hauled on country roads in the United States is not known, but of twelve leading products it is estimated that nearly 50,000,000 tons were hauled from farms during the crop year 1905-6, at a cost of about \$85,000,000, or more than 5 per cent of their value at local markets. Of this traffic, 40,000,000 tons represent the weight of corn, wheat, and cotton, and the cost of hauling these three products was \$70,000,000.

The number of working days taken to haul twelve leading crops from farms to shipping points during the crop year 1905-6 is estimated at 21,-417,500, and the number of loads taken as 30,319,000. The greatest time for any one crop, in hauling to shipping points is 8,494,200 days for corn; but if the time taken for hauling to local mills the wheat consumed in the counties where grown be included, the total number of working days taken for hauling wheat from farms during the crop year just mentioned would be over 8,900,000.

Although there were fewer loads of cotton than of oats, it required 1,000,000 more working days for men and teams to haul the fiber than this grain, the average time for a round trip for hauling oats being 0.6 day and for cotton 1 day.

Including wheat hauled to local mills for grinding, the total number of wagonloads of the twelve crops just referred to was 34,200,000, and the services of men and teams for 24,500,000 working days were used in moving

these loads. The greatest distance over which it will pay to haul a given crop will practically limit the production of that crop for the market. Beyond that limit, a more valuable product must be made. Cotton is hauled a greater distance than wheat, and wool is hauled on an average more than four times as far as wheat and more than three times as far as cotton. Live animals are often profitable substitutes for crops on land remote from shipping points, for the animals may be driven at an expense far less than the cost of wagon transportation.

The distance limit of profitable farming for a given crop may often be extended by improving methods and means of hauling. Better wagons and horses may be used, roads may be improved, and better facilities may be had for receiving the products at local markets and shipping points. Improvements of this kind tend to lessen the expense of hauling a load and thus make it profitable for farmers to haul from greater distances. From tables in the bulletin in question it is seen that average loads for the same product weigh in some States twice as much as in others, and consequently the expense of hauling is much less in the former States than in the latter for similar distances.

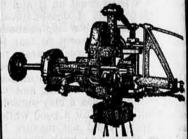
The average distances from farm to shipping point for twenty-one of the twenty-three products treated in this report range from 7 to 12 miles. The average distance over which hemp is hauled is 5.2 miles; cats are hauled

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average of 7.3 miles; corn, 7.4; e, 7.5; live hogs, 7.9; timothy-seed, peanuts, 8.1; potatoes and buck-peat, 8.2; hay, 8.3; rye, 8.4; barley, beans, 9; wheat, 9.4; apples, 3.6; pacco and vegetables (other than tatoes), 9.8; flaxseed, 10.4; cottoned, 10.7; fruit (other than apples), 6; hops, 11.7; cotton, 11.8; and wool, 8 miles.

The most remote farms from which certain product is hauled in small antities may be easily several days' ul from a shipping point; but the oduct hauled, unless itself valuable, ust usually be taken on the same d with goods of relatively high ice. A few bags of corn or potatoes be hauled 60 or 70 miles over puntainous roads to a local market d sold without loss to the producer the same wagon carries also a con-detable quantity of poultry and dry products. From one community the Rocky Mountains, wheat and ts are hauled on wagons a distance 100 miles, cotton is hauled from e county in the Southwest 110 miles a shipping point, while one report om west of the Rocky Mountains es 165 miles as the length of the gest wagon route over which wool taken from shearing camps down to ailroad station.

Copies of the bulletin may be obned from the Superintendent of cuments, Government Printing Ofe, at 10 cents per copy.

Chinese Pheasants.

EDITOR KANSAS FARMER: -Will the me warden or some one who is acainted with the habits of the Chi-se pheasants, kindly tell me, rough THE KANSAS FARMER, SOMEng of the nature of these birds? I uld like to know when and where turn them loose, and what care, if y, they require after they are freed. urned a pair out among my chickbut have not seen them since they re liberated.

they are a valuable acquisition, farmers should know it, and ould learn how to care for them. hat protection does the law offer G. BOHRER.

Rice County.

Co

The tianford Irrigated Lands. DAVID R. M'GINNIS, SEATTLE, WASH.

The itanford Irrigated Lands.

DAVID R. M'GINNIS, SEATTLE, WASH.

There is a belt of land in Oregon and the State of Washington possessing combination of favoring qualities of I and climate which causes it to be fruits of a size, appearance, and allty that probably surpass that sed in any other fruit region of the ited States, if not in the world. The gue River Valley, the Hood River ley in Oregon, the Yakima Valley Washington, and the valley lands mg the Columbia River reaching oughout the length of that stream the State of Washington and along Snake River Valley, up to and bedd Lewiston and Clarkston, possess se qualities which are making them unusually profitable for fruit-rais. In the aggregate, the area of this d is quite small, being possibly not r 1,500 square miles in Washington, 00 square miles in Oregon and 500 are miles in Idaho. Lands in these at valleys, which a few years ago, ore irrigation, were comparatively ueless, have steadily increased year year, until sales of orchard lands developed, well-settled, irrigation tricts have reached \$1,000 and \$2,000 acre. These, of course, are excepanal prices; but quite generally, lands now selling from \$250 to \$300, \$400 in \$360 per acre, where they are in hards or even in alfalfa and other ss crops. A Mr. Little, who a few sago paid \$2,000 per acre for 6½ es of land in the Wenatchee Valley in marketed apples, pears, peaches, put 2,600 arcs. This would be 10 cent on a valuation of \$2,500 per acre for the capture of the shipping point, etc., their fit averaged \$250 per acre for the capture of fruits are produced, and erces of course in a great many letters of fruits are produced, and excess of \$250 per acre for the capture of this richly producing irrite under the proper commercial lettes of fruits are produced, and excess of \$250 per acre have been set ment on a valuation of \$5,000 per acre ment on a valuation of \$5,000 per acre ment on a valuation of \$5,000 per acre for the surprise.

Washington, many farmers that only a their own

value of this richly anatter of the druit land can be a matter of the state warprise.

To me irrigated district of the State washington, many farmers that only from live to ten acres of orchards, their own automobiles, and lately froup photograph was taken of a en or afteen of them in their autos of llustrate the profit which can be wed from even a five- or ten-acre it ranch.

Superior commercial varieties of raised upon these farms are con-principally in the London and

New York markets, where they bring such exceptionally high prices; that single apples are frequently sold for 10 cents each. The Spitzenburg. New Town Pippins, Winter Banana, and Winesap apples have frequently been sold for \$2.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box, or a price by Eastern standards of \$7.50 to \$3 per box of the \$2.200, in a single year, from a single acre of Winesap apples. Of course, these apples possessed great uniformity in respect to intense color, size, and high quality. This same grower cleared \$5.00 from 14 acres of land last year, or almost 30 per cent on a \$2.000 per acre valuation. Of course, where these tremendous profits are made in fruit-raises, or size and the fruit-raises. The six of the worse favored sections, from \$100 to \$7.000 per acre each year for the last three or four years.

It is therefore but natural that intense interest should attach to the opening of a new irrigated district in South-Central Washington, whereby \$3.5,000 acres of land are to be put under irrigation and in a condition suitable for settlement. This land is greated the transmitting developed and well-settled, irrigation sections where land has already acquired a high valuation through settlement and development of the country. These lands of the Hanford Irrigation & Power Company have a climate of exceptional mildness, the Government report having stated that hey almost approached the semi-tropical, and while this is not strictly true a climate of exceptional mildness, the Government report having stated that hey almost approached the semi-tropical, and while this is not strictly true most delicate, tender, and index cherring the semi-tropical part of the country settles, develops, and comes in the price that will be offered at a price that will be a

Farm Labor Problem.

In this day of scarce help and high wages, there is no question in which the farmer is more concerned than in the labor problem.

How to get the greatest results at the least cost from hired help is interestingly shown and actually demonstrated in figures, in a 48-page book, published by the American Fork and Hoe Company, Cleveland, Ohio. It will pay our readers to write for this book, which is free to those who mention this paper.

Appendicitis Conquered.

Kansas City has a doctor who has found what the medical profession has been seeking to learn for many years, "The Uses of the Appendix Vermiform." This doctor, H. C. Carson, looks upon surgical operations that remove the appendix as a crime against nature. He has cured permanently every case of appendicitis that has been brought to him for treatment at his home, Twelfth and Washington Streets, Kansas City, Mo. He publishes a magazine which gives full details of this method of treatment and will send it to all who write him.

Free Sample of Congo.

If you are planning to buy any roofing this spring do not neglect to get a free sample of Congo roofing.

Congo is sometimes called "the never-leak roof" on account of the way it resists the water, and no one should select their roofing without investigating Congo. Congo is a splendid roofing, and the price is unusually reasonable. Write for a sample at once, addressing The Buchanan-Foster Company, West End Trust Building, Chestnut Street, Philadelphia, or Monadnock Building, San Francisco.

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Horticulture

Kansas a Fruit State.

Kansas had such a good apple and peach crop last year, and in some places prices were so low that there has been much talk about an overproduction. Men who had thought of setting out large commercial orchards have hesitated, and farmers who had about decided to enlarge their orchards have been "backing out."

These conditions led to an interview with Prof. Albert Dickens, horticulturist of the Kansas State Agricultural College. While he is thoroughly familiar with all the orchard troublesmoths, worms, fungus pests, etc.-in the handling of the big experimental orchards of the college, and from investigation of hundreds of orchards throughout the State, he is absolutely sanguine that we are in no danger of an overproduction of good fruit of any kind. He also believes that people ought to eat more fruit and that a large production of good, marketable stuff would induce larger purchases. Then, too, he believes in larger and better farm orchards of all kinds of fruit, not only for marketing but for home consumption.

In order to make his interesting talk more specific it was arranged in the form of answers to questions propounded to him every day in his very voluminous correspondence:

Is it not true that Kansas is not a

good fruit State?

No more than it is of Missouri, Nebraska, Illinois, or California. Kansas is a good fruit State. It is possibly true that the crops are somewhat more irregular than the crops in some of the above-mentioned States, but the history of the State for the last thirty years furnishes abundant proof that Kansas produces large quantities of good fruit, and that fruit plantations that have been well set and well cared for have been profitable investments. What advantages does Kansas have

as a fruit State? Cheap land, good soil, good railroad

facilities, good climate for ripening and coloring fruit, and comparative freedom from rusts and other fungus diseases that are much more serious in moist climates.

Is there any danger of overproduction of fruit? Why the low price when fruit is plentiful?

There has often been an overproduction of poor quality, low grade, inferior fruit. There has never been a time when high-class fruit did not bring good returns for the careful grower. As an instance, I might mention that during the fall of 1906, while third-grade apples were rotting on the ground, first-class fruit was going to storage at very fair prices.

How many acres would you recom-

mend for a farm orchard?

That would depend entirely upon the farmer, his inclinations, his opportunity to market or to store fruit, his liking for the work, and the adaptability of soil and situation for orchard crops. If his soil and location are such that it will require extraordinary care to grow fruit of first-class quality, it will hardly pay him to compete with growers who have the advantage of favorable conditions. A farmer who has good conditions, go soil, and is not averse to work with trees, an orchard of five acres would be a fair-sized orchard. If his market was good it might be twice or four times this size with profit. With a man laboring under adverse conditions probably one hundred trees of various sorts would be sufficient. An orchard intended to produce fruit in amounts to be used on a local market may well contain such varieties as will furnish a succession of fresh fruit throughout the season.

Apples.-Early Harvest, Red Astrakan, Yellow Transparent, Cooper's White, Maiden Blush, Grimes's Golden, Jonathan, Winesap, York Imperial, Rome Beauty, Missouri Pippin, and Ben Davis. Crabs: Hyslop and Whitney. In very trying localities Monmouth, Black Twig, Rawle's Genet, or Romanite might replace the Missouri

be extended for home orchards including apples for which the owners have a preference, even though they are not sufficiently productive to be counted as profitable. It is better in a home orchard to have a few trees of each variety than to confine the larger number to a few varieties.

Peaches.-A good list is Alexander. Champion, Triumph, Carmen, Elberta, Family Favorite, Mamie Ross, Mountain Rose, Salway, Bonanza.

Plums.-Wild Goose, Wayland, Burbank, Forest Garden, DeSoto, Weaver, Wyant, Lombard.

Cherries.-Early Richmond, Montmorency, Late Richmond, English Morello.

Blackberries.-Early Harvest, Kenover, Snyder, Merceau. Raspberries, Black.-Kansas, Cum-

berland. Raspberries, Red.-Loudon, Cuth-

bert, Thwack. Grapes.-Moore's Early, Worden, Concord, Catawba, Brighton, Brilliant, Wyoming Red, Woodruff Red, Agawan. Strawberries. — Excelsior, Senator Dunlap, Warfield, Splendid, Parker, Gandy, Aroma.

The White Elm Scale.

W. O., of Cottonwood Falls, sends specimens of elm twigs covered with white scales about one-sixteenth of an inch in length, flat, closely applied to the bark, and of an irregular oval or elliptical outline. These scales are the waxy covering of true insects, of the species known as the white elm scale. They get their food by means of a sucking beak through the bark. They multiply rapidly under favorable circumstances, and though in most cases subject to the attacks of parasites which prevent their too great increase, in some cases they become very abundant on the bark, as in the case of the trees from which these specimens are taken. Trees so thoroughly attacked show the effects of the constant drain on the sap by a sickly condition, and though I have not often seen a tree killed by this insect, such a resul is not at all impossible.

The only method of relief to the infested tree is to prune off all the branches that can be spared, and to spray or wash the remainder, trunk and branches throughout, very thoroughly with one of the washes recommended for this purpose. Where but a few trees are infested, and these of small size, I should recommend the trial of kerosene emusion, made with a strongly alkaline coarse laundry soap, the process to be repeated in the fall, if a first application, made now, does not rid the tree completely. It is of course necessary that this wash shall touch the insects, else it will not E. A. POPENOE. kill them.

Experience with Fruit-Growing in Southwestern Kansas.

I came to the Sharon Valley, of Sharon, Barber County, Kansas, in the fall of 1892. I purchased a small, unimproved farm and a year later moved to my new home. Having been born and raised in the great State of Ohio in the fertile soil of the Miami Valley, where all kinds of fruit grew to perfection, and seeing some fine fruit in the valley of this newly acquired home, I set about to grow some of this fruit for my own use.

I had had some training and experience in the nursery business in Ohio, so I planted a small nursery of seedlings. Upon looking over the valley I found here and there a tree of fine fruit that was adapted to the soil and climate, so from these trees I took buds and scions for my nursery and began the propagation of fruit-trees that were in time quite a success. The neighbors had cautioned me to plant nothing but seedlings, as budded fruit was not successful, especially the budded peach. Well, there was a seedling peach orchard of a few acres planted the next spring, but as soon as the young trees began to bud or leaf out, there would be wind and sand storms and blow off all the new growth, and by the time the season was over the trees were nearly all blown out of the ground and the orchard venture was a failure. The

Pippin and Ben Davis. The list might years 1898, and 1894 were very windy, and as there is much sand in our country, we had frequent sand storms.

"It's an ill wind that blows nobody good." The next spring I planted this same orchard site to budded peachtrees instead of seedlings. These trees were all well cared for except ing the spaces between the rows where the weeds and grass were as carefully protected as the trees themselves for the first year or two. The neighbors had not been used to seeing such an orchard and asked sneeringly what was to be done with the fruit crop. To avoid answering their questions I made answer, "I am just growing hog feed, and the trees will make good wood and windbreaks." Well, this orchard began to produce fruit and soon brought from \$500 to \$800 per acre. I planted other trees, and when six years old the fruit sold for \$1,600 per acre. There were 160 trees per acre, which averaged 10 crates per tree, selling for \$1 per crate. It is needless to say that all remarks and eyes were turned toward these orchards, and to-day there are hundreds and thousands of trees being planted.

It has been found that there are but few varieties of fruit that are successful. We must study our soil and climatic conditions and learn what is a success in our locality, and profit by the successes and failures of others in like conditions. The peach does best on dry, sandy soil. The apple is best on low, rich, sub-irrigated sandy soil, with an elevation of 2,000 feet. We can not get too low for apple orchard. The Japan plums do well on most soils. Varieties of plums doing best are Burbank, Abundance, Gold, and Wild Goose, in the order named. Red June bears well but the trees are not hardy. Wickson is a very fine plum but not hardy either in the tree or fruit bud.

Cherries always yield a full crop with us. Early Richmond for early, Montmorency for medium, and English Morello for late are the moneymakers. Gooseberries are a paying crop. Blackberries are quite successfully raised. The Leucretia dewberry could not do better. The Blackcap raspberry has given thirteen full crops in the last thirteen years. The red raspberry has been a total failure. I have tried the Turner, Cuthbert, and Landon for six years without success. But I am fortunate in living in a great county—a county that is noted for its great people. Barber County is the home of Hon. Chester I. Long, Hon. Jerry Simpson, Mrs. Carrie Nation, and Miss Mary Best (the lady stock- and alfalfagrower), whom Mr. Coburn has mentioned so often in his writings. We also have a man, Col. John L. Brady, of Medicine Lodge, who has produced a red raspberry that certainly is very promising. The berry seems to be entirely hardly and a vigorous grower, yielding great crops of the finest of large berries. On my soil this season yearling vines were a literal mass of berries of the finest quality. Mr. Brady's own statement follows:

"There are many varieties of the grape that do well in our section of the country. The Early Ohio, Moore Early, and Campbell Early are best for early grapes. Ives' seedling, Moore's Diamond, Niagara, Delaware, Agawam, Hick's McPike, Brighton, Concord, and many others do The Campbell Early heads the list for first, second, and third earliest grape. Moore Early is a much larger grape, larger bunch, and a great deal better in quality and remains on the vines several weeks after it ripens. The Niagara and Hicks are next on the list, with the old Concords as the standbys."

The growing of fruit is not all sunshine, for after we have fought the rust and fungus diseases, the codlingmoth, curculio, and other pests, we are confronted with excessive express and freight charges, delays in transit, and dishonest commissionmen. When all fruit-growers band together for mutual protection, learn to grade and pack their fruit properly, and deal with honest commission houses, or force dishonest dealers to be honest,



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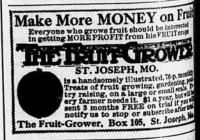
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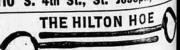
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d give just returns or get no conmments, then may the fruit-grower pe to get his just deserts. C. A. BLACKMORE.

Barber County.

Nut-Growing in Kansas.
The importance of the cultivation of t-bearing trees depends upon the off of their fruit and also upon the jue of their timber. Many valuable t-bearing trees are indigenous to nsas, while there are others that ght be cultivated here without diffity if they were given such care as best orchards receive. Most of the trees are very difficult to transint, and the seed must be planted in places where the trees are to grow. is takes a long time, and as "time money" must be considered with erence to profit. The profit like that all other crops depends upon the The market depends upon supply and demand. The demand pends upon the taste of the people, the latter sometimes depends on the caprice of fashion and somenes upon supply. At present the pply is limited and the price is high. a larger supply appears upon the rket the price will become more reanable and nuts will become a more mmon article of food. Nuts as an icle of diet are not only agreeable the taste but they are highly nutrius, some varieties containing from to 60 per cent of the fatty material food—consisting largely of carbo-drates. I mention the chestnut first ause it is a general favorite, and cause I think it has more of the ments of success for this locality n any other nut. In Spain and Italy chestnut forms a large part of the d of the peasant. The large chests of those countries have been faus the world over from a very early The fruit is eaten either raw, led, or roasted, or is ground into al, and puddings, cake, and bread

he Japanese have given us some uable chestnuts. They require fting, however, which is rather untain. There is a weevil that is a ablesome enemy to the chestnut. chestnut, if planted upon a rather but rich soil and properly cared should grow into a bearing tree in eight to ten years. Under favorconditions the tree should last a time. It is said that a chestnutin England is now standing that known as a boundary tree in the m of King John. A famous chesttree is growing upon Mount Etna, licily, that is said to be 160 feet in umference. The timber is valuable inside finish and it also makes a durable post. The roof of the tminster Abbey in London and of church of Great Yarmouth, erected he reign of William Rufus, are said ave been made of chestnut.

made from it.

he Madeira nut (often improperly ed the English walnut) is a great rite and will always command a price. It is raised successfully in Eastern States farther north than sas. It should do well here.

le pecan is indigenous to Kansas. best pecans are raised upon the coast, where great attention is s paid to their culture upon a scale, and already wonderful rehave been obtained, but our own ve pecan yields well, and the crop gs a remunerative price. They ld be planted in groves as they h to bear better thus than when ving singly.

e coarser nuts, such as the black ut and the butternut, are also valnot only on account of the qualthe nuts but also on account of lumber. They are both comparay rapid growers. The filbert s on a tree or bush too small to value for timber—but it matures and the nut brings a good price. resent there is an import duty of cents per pound upon several of farieties of nuts that I have mend. It is quite possible that this could be continued if Congress cultivated as well as the nuts.

ery farm needs shade-trees for enefit of live stock in the pasture. er belts are very important, and erally cultivated would have a cial effect upon the climate.

I would not recommend the planting of nut-trees in Kansas commercially as we plant apple orchards, but I think that every farmer would do well to select such varieties as seem best adapted to his soil and situation and plant them for shade, for screens, or for windbreaks, and take care of them as he would the trees in a fine apple orchard. Then in the course of a few years his farm will be more valuable, and what is better, a pleasanter home. JNO. N. MACOMB.

Lawrence, Kans.

Miscellany

Consolidation of Rural Schools.

SUPT. ALBERT BAYLISS, SPRINGFIELD, ILL., BEFORE THE NATIONAL FARMERS' CON-GRESS.

(Continued from last week.)

WHAT CAN BE DONE?

The question is, what can be done to make common school advantages approximately equivalent in town and country? I use the word equivalent, because it is neither possible nor desirable to make them equal in the sense of being alike in all respects. But a square deal for the thousands of children who must continue to live and go to school in the country requires that they shall be of equal

MONEY.

First, the farmers must put more money into their schools. Here in Illinois, the country teachers have almost gone to the limit in certain modes of self help. By such means as school entertainments, box, basket, pumpkin pie, and every other known variety of sociable, by husking corn or selling the products of the school garden, and I know not what devise, they have allowed the schools to earn money to buy books, window curtains, pictures, musical instruments, and to decorate the walls. They have planted trees and flowers and even painted the schoolhouses. The sum total of such work is very large, and it has influenced the schools in every county. I know of one country school in which the teacher and pupils working together for a few years procured for themselves 185 books, two bookcases, a globe, a dictionary stand and music chart, a case for seeds, a hundred seed bottles, the lumber for a stage, a clock, an artificial palm, a carpet, several rugs, three tables, eight chairs, six drawing boards, six lamps with reflectors, bought and framed more than a dozen pictures, set up a work-bench in the basement, bought a fair kit of tools, and made no end of things they thought they needed in their business. If all the country schools in Illinois now doing for themselves things of this kind were enumerated the list would run well into the thousands. This form of activity on the part of the teachers in providing the minor comforts and conveniences is very marked and by no means peculiar to any one State. The country school teacher who does not leave the schoolroom and school grounds a little better looking and a little better provided than she found it soon loses caste. This is a good sign of course. Nothing could be finer than the spirit of the teachers who do these things, while their city sisters are filing charges against the janitor who does not clean the chalk troughs or dust the drawing models.

ROOMS AND GROUNDS.

But this sort of thing does not go to the merits of the case. The fundamental material requirement of the country school is a little spare room and quite a little more land. An acre is the smallest piece of ground, for even a one-room school, that is entitled to respectful consideration. On how much less can there be a lawn, some flower-beds, a few fine trees, and ample play space, and a little school garden? In addition to two good cloak rooms, one extra room on the level of the schoolroom rather than in the basement, is the twentieth century

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minimum. The farmers can not adopt this standard too soon, for long before the little districts not foreordained to be consolidated are thus provided, there will have been formulated a body of knowledge available for elementary agriculture and industrial education, and teachers will have appeared who will need these conveniences in their business teaching.

THE HENS WILL PAY THE COST.

Such an enlargement of the plant would take a little money of course. Well, the farmers have it. The entire National expenditure for schools in 1903 was but \$251,000,000. The wheat, cotton, hay, or dairy products this year, 1905, any of them taken singly come to more than twice that sum. The corn crop is said to be worth four and three-quarter times, while the miscellaneous farm crops, but not including these staples, amount to more than ten times as much. Should all lands, personal property, all products of the mine, and factory and field be declared non-taxable, and the products of the poultry-yard alone be confiscated for school purposes, the great American hen would pay all expenses in both town and country, and create a sinking fund that would replace all the permanent school property in less than three years. The farmer is entirely solvent. Wilson says his savings embarass local banks with their riches and trouble individual farmers to find investments, leading to the multiplication of small banks for which they furnish the capital. He predicts that if there is no relapse within the next three years it will be found that the farming element, about 35 per cent of the population, has produced an amount of wealth within ten years equal to one-half the entire National wealth produced in three centuries, and concludes by reminding us that "we are still at the threshold of agricultural development, and that the educational work which has led to such grand results has only been extended as yet to a portion of our agricultural population."

WHAT IT COSTS.

Now a square deal for the country schools means that the educational work which has led to these grand results shall send its roots down deep enough to draw part of its life from the country common schools. It can not otherwise become all pervading. The farmer has the money. He must put part of it into his schools, and he must spend it in a wiser way. He is wasting a lot of it now. To illustrate: In Illinois the average cost of teaching a child a year in the graded schools of the town is \$14.91. In the county schools it is \$9.52. But the average number of days the town child gets to school is 158, which makes the daily cost per pupil a little over 9 cents, while the average country child gets to school about 94 days, making the expenditure for teaching him a little over 10 cents a day. The farmer pays his teachers less than half as much a year, but his teaching costs him a cent a day per pupil more.

THE REMEDY.

There is no doubt that this waste will continue as long as the smaller districts persist. It involves not only the expenditure of a larger proportionate amount of money, but also a diminished amount of service, mainly due as things now are to the crowded condition of the program and the lack of adequate supervision. In the near future this loss will be increased by the limited amount of work in the elements of agriculture and hand training that may be undertaken. The apparent remedy lies in such an organization of the country districts as will require at least four teachers in each school, whereby one could be prepared to teach the elements of agriculture and manual training, and another domestic science. These between them also could extend the conventional course of the country schools at least two years, while the other two took care of the grade work, as well or better than it is now done. Suppose the 156 schools to which illusion was made, and which were to be inspected to keep quite within the bounds of in 134 days, were thus organized. What is both desirable and nossible There would then be but thirty-nine what is both desirable and possible.

centers, and the efficiency of that part of the supervision depending upon the personal presence of the county superintendent would be increased threefold. This alone might well become an equivalent for the increased cost due to this much reorganization.

Then as to the teaching of efficiency. It is my deliberate judgment, based upon observation, testimony, and upon the nature of things, that almost any four teachers without any better initial preparation, would in such combination and division of labor, under the most mediocre leadership, accomplish more than the same four teachers singly in the isolated districts.

CONSOLIDATION.

I shall not dwell long upon this matter of consolidation. There is a systematic propaganda of that doctrine in progress. The opposition to it has been intelligent and active. It has included some reactionary elements which would oppose any proposition which seemed likely to improve the common schools. It has also included many who believe that the ungraded country schools have certain advantages, at least for the young children, that ought not to be lightly abandoned. I have some sympathy with this opinion as well as for the sentiment which still lingers around the little red schoolhouse—commonly painted white. Tenacity for the ancient landmark is not wholly a bad thing, but my sympathy has its limitations. If those who desire to hold fact to the old way will provide suitable buildings, well lighted, warmed, and ventilated, furnished with libraries, museum, pictures, and a workshop; if they will make the grounds ample enough for a garden, and flowers, and trees, as well as for play; if they will provide for the proper care of the building and grounds without imposing this form of service upon the teacher; if they will keep the school open eight or nine months in the year, pay the teacher living wages, see that she has a comfortable boarding place, and otherwise encourage her to remain in their service, then, upon one condition, I am willing to concede that their way is as good as anybodys way—until they themselves got ready to change it.

MORE ADVANCED COUNTRY SCHOOLS.

That condition is this. Some provision must be made for more advanced country schools than, under the most favorable circumstances, the one-room, one-teacher school can possibly be or become. If the Wilsonian educational work is to be extended to the whole agricultural population it must be done in part through the agency of schools in the agricultural communities. The country schools will not be organized for maximum efficiency until there is within reach of every farm home a common school of secondary grade, in which instruction is given in agricultural botany, chemistry, physics, general agriculture, blacksmithing, stock-breeding and feeding, and judging, dairy husbandry, farm engineering, cooking, domestic chemistry and hygiene, farm bookkeeping and the like, as well as a little more language, literature, mathematics, and history for those who want them. This means that there must be country high schools which will effect the country elementary schools very much as the high schools now effect the grade schools in town, and also that these upper schools will articulate themselves with the agricultural college at the University very much as the city high schools are now articulated with other colleges. With a sufficient number of accessible schools of such type it is not impossible to concede that consolidation of the elementary schools is a detail which will take care of itself. Its chief value is that it is in the direct line of approach to the main thing, which is some better provision for a rational course of study for, and mode of instruction of the older children in the country districts. As thus rudely stated all this may be far from our ideal of what the country school should become, but it does represent an advance, and I wish

Years ago Horace Mann declared

that the practise of dividing the towns into small districts was the most unfortunate law on the subject of schools ever enacted in Massachusetts. This opinion has been, almost without exception, the opinion of students of school organization everywhere.

OUR OPTIMISM.

There are two points of view from which the public system may be considered. One, and the more popular, is to hail it as perfect; to laud teachers for skill which they do not possess, and in the nature of things could not have acquired in the time they gave to preparation; to think and speak of a fine building as a splendid school; to complacently assure the tax-payers that all is well, because they are asleep. The other and less popular is to expose weakness and diligently to seek for remedies. The wise procedure probably would be to balance opinions derived from these different views. Pessimism is bad of course. Optimism is good, but meliorism is better.

THE MOST PRACTICABLE WAY.

If melioration is the thing this device of consolidating the country school districts is the most practicable yet proposed, because:

1. It diminishes the cost per capita for instruction of the same grade of excellence.

2. At a cost quite within the means of a group of four or five average school districts, it can be made materially to increase the efficiency of the school and the regularity of attendance.

3. It conserves the health of the children. There are no wet feet and bedraggled clothing. There are fewer colds and less resulting illness.

4. It secures better teachers, if in no other way by improving the conditions under which they work. Thousands of unprepared teachers could be dispensed with if consolidation of country schools became epidemic in Illinois. Competent teachers will go wherever the conditions under which they work are approximately half right. If the conditions of work and the wages are both half right they will often quite contentedly remain quite a while in the same district. In many country schools a longer tenure of office is much to be desired. Fifteen hundred schools changed teachers in Illinois during the last school year.

5. It is the condition under which instruction in that application of the natural sciences to the practise of agriculture is possible just where it is first and most needed.

6. It is more than double the value of the county supervision, because it reduces the number of centers with which the county superintendent must keep in touch.

Lastly, this device has been tried out. It is not a chimera. It is practical and economical. It works.

BETTER PREPARATION OF TEACHERS.

It will be said that even this much implies a peremptory demand for special preparation on the part of at least half of the country teachers, and better preparation on the part of all of them. If you set up even the modest standard which I have indicated, the normal schools would get busy in response to the demand for teachers with some notion of how to go about their work. It is up to this representative body to reinforce all the agencies now in operation to crea eral demand for more rational school conditions in the country. One way to stimulate the demand is to increase the supply of teachers. Another way is to pay living wages to them when found. This is a matter in which demand and supply act reciprocally as cause and effect. Each reacts to produce the other.

THE COUNTY SUPERINTENDENT.

As has been said, either the consolidation of schools or the establishment of country high schools would do much to liberate the county superintendents. The smaller number of centers would give them more time for each. In the consolidated school part of the supervision would fall to the principal, and another part would be done through him. In the other case the schools tributary to a given central high school would be influ-

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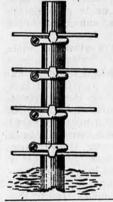
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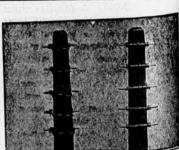
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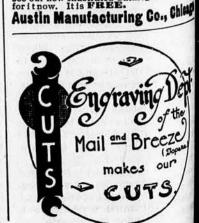


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nced, guided, and inspired, led if not rected by the school next above em. But this relief alone would not illy emancipate the country superinndency. There should be more of it should be much better paid; and should be so conditioned as to atact the best men and women in the chool business. No city of six thouand, as usually is the case, ought to e prepared to compete with the couny in which it is located, for a school uperintendent. Under anything like rmal conditions no city of that size ould offer superior attractions—finanial or otherwise—to a superintendent robust health, and having an adenate conception of the comparative ssibilities in the two opportunities. here is a wonderful field for initiave in the supervision of country hools, even under present conditions. But if the office is in politics or open equal terms to butcher, baker, and andlestick-maker, provided he can get ne delegates, we must expect a cerin residuum of men wholly without itiative or other qualities of great alue to the schools.

OBLIGATION OF THE SCHOOL.

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s Well ntel) required osts are nt, most par-ble post of

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rs.

In part of what has been said, I ave wished to make you conscious the presence in my thought of the alue of the economic motive in school ethods. The social unit is the home. man's choice of and success in his cation determines the quality of his me or whether he shall have one. is home in turn determines his ratas a social factor. Hence the hool is bound by its obligation to soety to help train the young to feel, well as formally to know, that labor of dignity just in proportion to its ility. The modification of school ethods to include that motive is in ogress now. The introduction of ace occupations as educational instruentalities, not in lieu of books, but in se relation to them, is strengthening foundations of our educational ocesses. When the farmer clearly prehends that there is a kind of ining that will increase the produce capacity of his boys, that there kind of school education that they use in their business, he will deand that kind and plenty of it in the m schools. Very soon thereafter re will be something doing out in

IMPROVE THE COUNTRY SCHOOL.

But there is no inherent difference ween right school methods and indards in town and country. It is od pedagogy to use the material at at hand for educational stuff. ere will naturally be surface differces due to environment. The real cess is the same everywhere. ile conditions remain substantially they are, some country people will tinue to move to town to educate ir children, and others will send ir children to town to board and tuition and go to school. This is ree country, and we can not stop t, but if all country people who are ng one or the other of these things ald stay on the farm and put their ulders to the wheel, and lift their ght and push, they would hasten good time coming when the advans of clean air, elbow room, trees, d flowers, babbling brooks, and all other country agencies and eleats of bodily health and spiritual edom, not the least of which will be lew country school, shall have set a counter current. When that time es, as come it surely will, we also ll see quite as many city people ding their children to the country ve and grow strong, and incidentto pay tuition and go to school.

Rainfall in Western Kansas.

DITOR KANSAS FARMER:-In the isof THE KANSAS FARMER for March the climatic conditions of the hs was discussed at some length. ve been a resident of Rice County, ch is within fourteen miles of the Sraphical center of the State, for ty-four years, and have been a h interested observer during all e years. Please permit me to call ntion to one change which has takplace, is still going on, and will inue to do so as long as the cultivation of the soil and timber increases.

When I located in Rice County in 1878 the country west of Topeka was practically an unbroken prairie. It was entirely treeless with the exception of an insignificant fringe of timber along the water courses. As I was then practising medicine, I was often on the road at night. I most always used the north star as my guide, for there were but few nights when it could not be seen. Now it is different. The stars are made obscure very largely, by a mist caused by the evaporation of water held by the millions of acres of soil that has been broken.

Very nearly all the water that fell before the land was broken ran away and was lost. By stirring the soil, billions of gallons of this rainfall is held and can only escape through the slow process of evaporation. In addition to the breaking of the soil, we must not forget to add the fact that timber and hedges have broken the force of the winds near the earth's surface. This has checked the process of evaporation, which has contributed very largely to successful corn-growing as well as to the protection of stock of every kind.

If trees are planted and hedge culture is continued to the Western border of the State, agriculture will continue to be more successful. In Rice County the winds do not blow now as they did thirty-four years ago. Hedges, timber belts, and fruit orchards have brought this change, and with it has come successful farming in a degree that I never expected to see when I first looked the situation over.

None of this success is due to an actual increase of rainfall in the State during the last thirty-four years, for the revelations of the rain gage do not sustain such a conclusion. As to the occurrence of drouths and hot winds, we may count on their return, but with the presence of hedges and timber, the destruction to vegetation will not be so ruinous as when the country was treeless. Take twenty years, as a period, during any time since the actual and self-sustaining period of the settlement of Kansas, and no proof of the actual increase of rainfall has been given.

But for reasons above given, we have much more moisture than there was present before the soil was broken and trees grown, and there must be much more of this kind of work done in Western Kansas. Many hard battles have been fought by brave men and women, who have thus far developed this country, and a sturdy, undaunted, and persistent forward movement will, within twenty-five years, render Western Kansas one of the most desirable countries on the American continent.

Some men say, If I had a hedge on a farm of mine I would destroy it; or if a row of trees on the north or south of that farm was on a farm mine I would chop it out the way, for it shades the ground for a rod or more, so that corn will not grow. They forget that by checking the speed and force of the wind evaporation is retarded, and thus benefits the growing crops. Such a man is detrimental to the profitable development of all this territory in Western Kansas.

Among the profitable crops that can be grown on most of these Western lands is alfalfa, sorghum, and wheat. Alfalfa means a strong support to the dairy business. Sorghum is also a valuable stock food. Wheat in limited quantities should be grown, but the extensive wheat culture in Kansas should and will be cut down in the near future. Kafir-corn can also be grown successfully. Alfalfa, cane, and Kafir-corn mean not only butter and cheese, but also good cattle, fine horses, lots of poultry, and millions of eggs. Most of this vast territory has an inexhaustable supply of water. Sugar-beets in large quantities can be grown with a little irrigation. They make excellent food for dairy-cows and hogs, and horses can also be taught to eat them. In short, there are great resources of profit not yet developed in Western Kansas, and determined effort, persistently adhered to, will make thousands of desirable homes there. G. BOHEER.

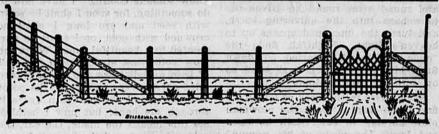
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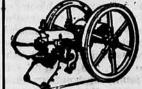
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Count the Days of Sunshine.

Count the days of sunshine, mark them Count the days of subshine, mark them on the pane, on the pane, Where you're sure to see them through the mist and rain:

They are sent to brighten coming dreary days, Count the days of sunshine, fill the hours with praise.

Think about the sunshine, life is glad-Than we sometimes deem it; through the gloom a star

Ever shines to guide us when a song we raise,
God's within the future and the cloudy days.

Talk about the sunshine with a glad Thank the gracious Giver for each blessing sent:
Tell of loving kindness; labyrinthian ways Oft, e'en this side heaven, lead to hap-pier days.

Sing about the sunshine, it will soften Lift your courage higher, bid you hope Doubt is for a moment, shadows flee With the dawn of morning, Joy resumes her sway.

—Westminster Review.

Plowing.

CORA BULLARD, TONGANOXIE, KANS.

It is now plow-time throughout the land. The April sunrise finds the gude mon" up betimes preparing for his work in the field. Horses are fed, harness adjusted, straps and buckles are fixed at daybreak, and as the sun sends long, slanting shadows down the furrowed field, to and fro he passes at his task in the early morning, while the city man turns in his bed for yet another dream. As the sun mounts higher, cattle stretch themselves lazily on the sunny slope and take a bath in spring sunshine; sheep browse leisurely in the pasture; the maternal head of the swine-herd takes herself with stately indolence down to the meadow brook for her regular rest; the lark sits easily on the willow branch and sings his song to the sky, and the city man goes with leisured steps down to his office on Main Street. But out in the field, steadily, sturdily, without pause or rest, the plowman holds to the beam and round after round he drives the plowshare into the quivering earth, and turns the unsunned spaces up to heaven's light. Nightfall finds the 'gude mon" much awearied, but dawn finds him again at his task-and so on until the field is done.

Somewhere in the book of Isaiah we find these words, "Doth the plowman plow all day to sow? doth he open and break the clods of his ground? When he hath made plain the face thereof doth he not cast abroad the fitches and scatter the cumin and cast in the principal wheat and the appointed barley and the rye in their places?"

May we not find one of life's greatest lessons in this parable of agriculture? Has it not pleased God through the prophet to show somewhat of His methods of discipline, and somewhat of His purpose of government? Does He not in effect say, Look at agriculture and you will see on a small scale what I am doing on a scale immeasurably larger? Look at the farmer and see the spiritual cultivator. Look at the method of producing food and learn something of the method of producing character. This is a precious and invaluable method of teaching, because it enables us to get close to the Divine Worker. When He Himself fixed the symbol; when He calls attention to any act of economy and says, Watch these, and you will see as much as you now see of My purpose and method, should we not look with undivided attention, so that nothing will escape our notice? Since God Himself has fixed the lesson book and told us to read with utmost care, let us yield ourselves to the spell of every vision or parable or sign that can help us to understand a little more than we can at present comprehend of the divine spirit and method and pur-

What is plowing? Does the "gude

mon" plow merely for exercise? Is it just to express a whim for ground-cutting that he labors so hard all day in the field? Plowing is not an end. Plowing is a means to an end. Everything depends upon our seizure of that simple fact. In the discipline itself there is nothing. God does not smite, cut, bruise, and slay merely for the purpose of showing that He is much stronger than we are. He does not exercise almightiness in crushing weakness. When He sends the plowshare through our hearts He has an object in view—that is an act preparatory to some other act. We miss the whole moral inspiration of discipline if we suppose that we are merely clay in the hands of a petter; merely objects upon which God plays of the miracles of His omnipotence. This view would be but an insult to God's wisdom and love. When the Lord casts a man down it is not to trample him in the dust, but that He may work in him some wondrous ministry of grace and love. Let us try, therefore, to understand that all the discipline through which we pass is in itself nothing. Discipline which we have not turned to account makes us no better. We can not be nourished by food that has not been digested. The mere fact of our having suffered a great deal availeth nothing if we have failed to make life through suffering and unless we have done this we are worse for the suffering. It comes to one of two issues either we are chastened, softened, purified by the discipline, or Pharach-like, we are hardened and our soul withdraws itself within a more obstinate induration so that God's light, and rain, and smile can not enter the soul's hiding-place and make it glad. We are to be co-workers with God in all this matter of discipline. Where God plows there also He means to sow.

To kiss the rod and say, Bless the hand that wields it, is true religion. Could the earth speak it would say, "I have felt the hard plow this day. I know what is coming. I have now to do something, for soon I shall be sown with seed and ere long I shall be crowned with gold, or I shall be garmented in a beautiful robe. When the plow point first struck me I was full of pain and distress and I could have cried out for very agony, for the point was sharp and the plowman drove it through me hard; but now I bethink me this means the blade, the ear, the golden harvest, and the harvest home; and what a rest shall be mine when I have done my duty-filled the granaries of men, and have sent hunger away from the homes of the world." When the plow of God's providence first cuts up our lives, we are recusant and remonstrant. We cry out in bitterness against our hour of travail, but let us pray ere eventide we may come to ourselves and say, "Plow on, dear Lord. I want my life to be plowed all over, that it may be sown all over and that in every furrow there may be golden grain or beautiful flowers. Pity me that I rebelled when first felt the plowshare. Thou knowest my need, Thou rememberest I am but dust. I shall grasp Thy meaning; I shall put things together; and I shall reconect; so drive on, Thou Plowman of Eternity." Pain has its mission, and loss its blessing; death is but a great door that swings back upon immortality.

The Daughter Problem. MYRON B.

It seems to me that the columns of our good home departments are full and overflowing with sense and nonsense, wit and wisdom, the bloom of the rose and the sting of the thistle, and still many important subjects are left untouched. I would rather know how successful mothers and fathers manage to rear, and settle off satisfactorily, a family of daughters than to know some other things. The fam-

ily problem is the most interesting and important, and the daughter side of it the most neglected. We are told how to raise babies. All well enough, but the babies when they are large enough to be called daughters (I love boys and have some of my own, but want to ventilate one subject at a time) are a more important question. How to get these sweet girl babies past the dangers that even assail the ignorant little girl before her mother knows it, and maybe she never knows it, only the daughter never satisfies the mother. I do love all young people. If I had my way they would all grow up with clean, wholesome rec ords, dear, dear and lovable. But boys have some advantages that girls do not have, so I go back to my subject-the daughters. We don't want dreamy ideas, for girls are not dreams but stern realities. We want women who have actually succeeded to tell their methods. This is my training and of course my view:

First is health. Take nothing for granted. Work hourly and daily for health-mentally, morally, and physically. Don't think, "O, she'll outgrow this or that ailment," for maybe she will and maybe she won't. There is a time girls learn to conceal their ailments and that is not right. Neglected health in childhood generally means a ruined life later, and perhaps ruined lives. If it could only stop at that. I am not one who believes that only perfect specimens of the human race should wed, for I believe the mass of people better off married. It is God's way—let none gainsay it. So let our girls be given all the chance to better the conditions of their birth which can be given. We don't want the devil to claim so many of our splendidly strong girls. We want the home and family to have the benefit of the best physically as well as mor-ally. Why are not girls taught as much of the marriage question-on the how and when to marry well-as they are taught on lesser subjects?

I think most parents educate their daughters as far as their means will reach on all other points but the all-

The healthy girl needs one training and the delicate girl another. Each may be happy—it all depends. A disappointed girl is not a pleasant feature in the parents' home. The girl who is conscious of her own defects either in body or mind, or who is lacking in personal or facial charm, and who knews no way of overcoming these things is one to need comforting indeed. When a girl knows she is lovable and loved she is generally loving, but have us from the neglected ones—who so often get spiteful and make bad things worse.

If health comes first in importance, the next thing is to cultivate a happy disposition by weeding out faults and planting all the needed virtues and graces until the girl is comely and agreeable. That is a great, great deal. Every girl should be a student of phrenology, and study herself and her friends as well. She should study her limitations; what she can do and do well and gracefully. This is a big old world and there is friendship and love for all if we only know how to reach out and accept them.

So my dear girl, don't stay at home and sour in your corner, and think your own neighborhood is bad and the adjoining ones "bigoty." Get in a pleasant frame of mind, attire yourself nestly and cleanly, and follow the first path to a neighboring Sunday school. It is always easy to find some one (be it a child or old woman) to be a guide to a new place. Keep yourself sweet and modest. There is nothing wrong in seeking new friendships, for it can be done in such a quiet fashion. Girls can be wicked in boldness and foolish in shrinking bashfulness.

Thoughtful parents should afford their daughters every chance for good and happy acquaintances. If they won't do their duty let the daughter do hers. She has a right to know a little of the world.

O my dear girls, how I think of you in untried paths; how I would save your feet from stumbling and your

When you have a Bad Breath-Wake up!

VAKE Up! It's time to take Cascaret. -When the friend you speak to turns his face the

- When your tongue is coated.

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-- When Pimples begin to peep cut, -When your Stomach Gnaws or Burn -That's the time to check coming Con-

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arts from hurts if I could. How my art aches for the few who can nevget out in the sunlight, but are nomed to sit in the corners or by the e; but even they may have the arest friendships even if denied the ine of love. Encourage love in your art for every one; do your part in thering up the good things in your ay. Scatter all the comfort you can. espect humanity, for God made it, nd your lives will surprise you with be blessings He will shower on you.

Business Ideals.

A moral thief is not a legal thief in e eyes of the law, and by that token any a man is at home when his ghtful place is in jail. But the queson is: Shall we, as a public, help is sort of man along? And this estion brings itself home with peliar force to women, who are the y dint of thought and work, invents article of food, of wearing apparel, for domestic use. He carries out s conception; he gets it ready for e market; he recognizes the requireents of the law of the land and patits his article; he invests large sums money in letting the people know out it, and he makes a success. hat is, thousands buy the result of e thought of his brain, the invest-ent of his money, and his honest, gitimate methods. Along comes a an who has no brain wherewith to nceive except to trade upon the oth-man's success, and "Uneeda Bisman's success, and "Uneeda Die it" becomes "Uwanta Biscuit;" "Jap-"Tana-lac;" "Cottolac" becomes 'Jac-a-lac;" "Cotto-ne" becomes "Cottoleo;" "Pears' pap" becomes "Peer's Soap;" and so All these imitations are purely d palpably intended to mislead the ablic, to confuse the buyer. Now is imitator does not need to invent; e has no call to invest capital; he es on the wave of popular support eated by the man who legitimately unched the result of his benest ought. Such a parasite not only es on the brain and capital of anther, but he also distinctly hopes to et an undeserved livelihood by playg upon the credulity of the public. e is a coward, as is proved by the ct that he imitates. His article is ever so good as that which he imites, for the same moral twist that ays upon a name will play upon the uality of the article. As a matter of ict, he has no need to think of the uality of his article, for he relies for s sales on his misleading label; ence, quality, to him, is of slight im ortance, and therein lies the fraud inst the consuming public.

The bid for patronage upon which e usually catches the eye of the rifty woman is his untruthful assurace that his article "is just as good others" and-here comes in his rong point—"it is cheaper in price." nd thus thousands of women are oled; trapped into supporting a morthief and a business coward—a man hom decent business men shun—and etting a cheaper article at a cheaper A woman sometimes fails to alize that she has it in her power to ise the standard of American busias honesty by a refusal to patronize ich imitations. For just in proporon as she makes it easier or harder these moral thieves to succeed, so bes she make the business of honest salings easier or harder for her husand or son. Business will be honest

just so far as the public demands it shall be. The two or three cents saved by a woman in her support of an imitative article represent the costliest investment she can make toward the lowering of those business ideals with which her son must sooner or later battle when he goes out into the commercial world. It is she who, by her patronage, builds up or tears down honest business ideals.—Ladies' Home

Farm Memories.

One morning I was awakened with a strange new boy in my mind. It came to me at that moment with indescribable poignancy, the thought of walking barefoot in cool, fresh furrows, as I had once done when a boy. So vividly the memory came to methe high, airy world, as it was at that mement, and the boy I was, walking free in the furrows—that the weak tears filled my eyes, the first I had shed in many years. Then I thought of sitting in quiet thickets in old fence corners, the wood behind me rising still, cool, mysterious, and the fields in front stretching away in illimitable pleasantness. I thought of the good smell of cows at milking. You do not know if you do not know! I thought of the sights and sounds, the heat and sweat of the hayfields: I thought of a certain brook I knew when a boy that flowed among alders and wild parsnips, where I waded with a three-foot rod for trout. I thought of all these things as a man thinks of his first love. Oh, I craved the soil! I hungered and thirsted for the earth. I was greedy for growing things.—American Magazine.

The Young Folks

The Working Girl. Where'er domestic cares are known; And where didactic arts are shown; Where business sitteth on the throne; Where human lives in sickness moan; Where factory engines buzz and whirl; Oh, there you'll find the working girl.

In fact, you'll find in every land, Some of the members of our band, Not organized by rule or creed, But drawn together by common need. They go where'er their duties call, "Work" is their watchword one and all.

Oh, healthy, happy working girl, With pride your labor flag unfurl; Nor be ashamed of honest work, In its disguise rich blessings lurk; But best of all you will agree, Is self-reliant liberty.

—G. A. Dodge.

Took His Dictation.

She was riding in to the city on the morning train, in search of a position as stenographer. Having seen the large, florid man in the seat in front of her cut an advertisement from his newspaper and put it away in his pocketbook, she was just curious enough to look up the corresponding place in her own paper. Finding there an advertisement for a stenographer, she noted down the address and thanked her feminine curi-

She then turned back to her pencil and notebook. It seemed as if, practise as she might, she never could keep her speed up to one hundred words a minute. She tried copying from the newspaper, but the motion of the car made the words dance before her eyes until they hurt her. She tried making up sentences went along, and failed. Finally she resorted to taking down the incessant chatter of two women behind her, but their talk was often drowned in the disturbances of a number of young people still farther back, who were riotously noisy.

The young lady struggled with a tirade on the servant-girl problem, timing herself by the distance between stations—two minutes from Sherwood to Sherwood Corners; could she do two hundred words? As her hand dashed madly over the page, a large wad of newspaper flew past her and struck the florid man in the neck. The laughter behind subsided into dismayed giggles.

Slowly the large man turned his injured neck. He was redder than ever as he started to speak. The words Simpson-Eddystone



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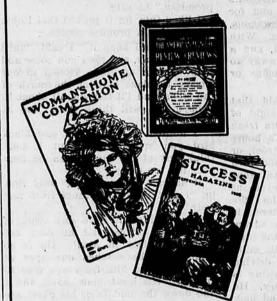
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fell from his lips, hot but distinct, swiftly but smoothly. He was telling the boisterous young people seven seats back just what he thought of them.

The young woman with the pencil saw her chance, and took it. Here was glorious dictation. Her pencil The speech lasted a minute and a half, and was cut short then only by the arrival of the train at the termi-The stenographer slapped her book shut with a comfortable feeling of having done even better than a hundred words per minute, and set off in search of her position.

When she arrived at the address she had noted down, she was ushered into a private office where sat the man of the speech. She stammered a little until she saw that he did not recognize her. His mind had been full of bigger things. Then she smilingly told him her errand.

"Do you think you can take my dictation?" he said, frowning.

"Yes, sir."

"What makes you think so? I talk very fast."

"But very distinctly, sir." She produced her notebook and laid it open before him. "Here's a sample." She began to read her notes.

His jaw dropped. There was his masterpiece of the train, complete and unabridged. It really sounded very well, so full of fire.

When she finished he looked at her sharply. His face was very red, but

his eye twinkled. "The job's yours," he said, in a subdued voice.—The Youth's Companion.

Morning In the Country.

Boys, if you ever feel inclined to complain and grumble because your path in life leads you through the country; if you ever grow tired of getting up in the early morning to milk the cows, and attend to the work day after day, and long for the city life, it is because you do not know what the city life is. You fail to see the joy and beauty in your own surroundings, and to appreciate your blessings. A correspondent in the American Boy draws a picture of the two conditions which is interesting. It is as follows:

"Daniel Webster used to say, 'I know the morning and I love it.' He lived in the country at that time, and loved to rise early to see the dawn, and the sunrise, and the landscape, smiling in the fresh spring day.

"But it isn't every American boy that can enjoy that. Many city boys, fenced in with narrow streets, and high houses, see no dawn, no sunrise; and, for a landscape, have store-fronts and factories, and chimneys; and, for bird songs, the rattle of milk wagons, and the rumble of street cars. With them it's a jump out of bed, and a bite of breakfast, and then away to the factory, the store, or office or school.

"And then it must be said that many of them might get a sight of the morning, and a sniff of its fresh air, if so many of last night's hours had not been spent on the street, or in the show, or even in some nice party. It's the late hours that shut out the sunrise. Heavy eyes at 5 a. m. can't take in the glories of the morning. There is where the country boy has the advan-He can't help knowing the morning, and love it. For, while milking cows, or feeding fowls, or driving the cattle to pasture, the morning is flooding him with its fresh glory. He has only to lift up his eyes and look around, to behold a landscape that might make a painter's fingers itch!"

Since love is the artificer of all virtue, let us with exactness implant her in our souls, that she may produce for us many blessings, and that we may have her fruit continually abounding, the fruit which is ever fresh, and never decays.—St. Chrysostom.

Joy is a working thing. It builds up while it enlarges the whole nature. It is the wine to strengthen the heart, to brace it to carry noble enterprise! --Dora Greenwall

The Little Ones

At an Open-Air Bakery.

"My little man of grimy fist,
How busy you appear;
Your wondering eyes of amethyst
Widen with sudden fear
As I approach, all unaware,
Your bakeshop in the open air,

"Now shake hands. Master Oh-So-Shy,
And speak up how you sell
These earthen tarts I want to buy.
A penny each? 'tis well.
A higher price would be too steep,
For mud-pies must be sold dirt cheap!

"Suppose to-morrow I pass by,
Should it be bright and clear
And your sun-stove glows in the sky,
Promise you will be here
To teach me how your pies are made,
And other secrets of the trade.

"Then your young hands and my old heart
Sweet partnership will try,
You as the master of the art,
Your poor apprentice I,
And such pies on our board we'll set
As never kings have eaten yet!"

The Baltimore Oriole. ANNA DEMING CRAY.

-Gorman Wheeler.

I was planting my sweet peas the next afternoon, when I heard the familiar whistle, and looking up, saw Robin, hands deep in his pockets, coming across the yard.

I had said to him once, "Do you whistle all the time, Robin?"

"Not when I'm asleep, or eating my meals," he said, laughing up at me. "I don't hardly know when I'm doing it, and I guess my mother gets tired of hearing me, but dad says to let me keep it up. He says there was never a mean man yet, that was a whistler."

He was whistling gaily now, as he came across the lawn, and if I had not been watching him, I should have been sure a catbird was in the elm-

tree near me.

"Here, I'll do that," he said, as soon as he came up, holding out his hand for the rake. "You just boss, and sit on the steps and watch me. If I don't turn out some kind of a bird manthe kind that knows all about them you know, like the one that wrote that book—I think I'll turn out a farmer. I like to dig."

"I am sure you will turn out all right," I said, "and make a good man, and that is of the first importance. And that makes me think of a secret I know. It's about you, Robin, and it's so good that I shan't be able to keep it much longer."

"But it won't be a secret no more," said Robin, sagely, "if you tell me."

"Yes, but all the fun of having a secret is telling it," I said. "Yep-but you don't dare to, if you

promised," he said. I liked this, for it proved that Robin knows what a promise means.

"Oh, I shall keep it," I said, "until next Saturday, and then you come and help me dig up some violets in our woods, to plant here at the north of the steps, and I'll tell you all about it. I hope you will think it as fine as I do."

"I hunted up the yellow and black bird you spoke about, but I don't think any of his family can be here yet; it's too early."

"I haven't seen any yet," said Robin, "I just remember them from last

"He is different from any other of our Kansas birds, and he does not come until late in April. He is so bright that he catches our eyes at once, when he flits from one tree to another. His head, neck, back, and a line down the middle of his chest are black. Almost all of the rest of his plumage is a beautiful orange color. He looks like a flash of sunlight when he flies. He has one of the sweetest songs we hear.

"For his nest, he likes the elm-tree best, and he weaves it of fine strippings from vines. It is lined with silk-like stems of long grass. If near a house, he gets tiny bits of thread and twine. It is one of the most delicate and perfectly woven of any of the nests (and hangs high above the ground from some branch, like a small bag. When the wind blows, it is like a tiny swinging cradle.

"The eggs are pale blue white, and



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It won't take as long or be as hard work as to patch the old roof, You can lay Congo yourself. Unroll it on the roof and nail it n! Then forget you have a roof. There will be no more leaks to remind you of it.

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Send for free sample and you will understand why we are so confident.

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Chicago and San Francisco. BUCHANAN-FOSTER CO.,

Philadelphia

The wealthiest, most progressive and

most prosperous state in Greater Britain, with an area of \$10,000

square miles, and 20,000,000 acres

of virgin wheat land within the 20

inch rain belt.

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will be assisted.

The New South Wales climate is kind to the farmer, and wheat is produced there more cheaply than in any other country in the world. The great range of climate possessed by the State, permits almost every known crop to be raised.

A young country, close to the teeming East, with a fast growing population and rapidly expanding industries, and the converging point of many important trade routes, New South Wales offers many avenues of activity for the capitalist.

New South Wales produced last year \$230,000,000. The men engaged in the Primary Industries produced \$875.00 per head. New South Wales has many entrancing tourist resorts, great natural wonders in the limestone caves, and the oldest land surface on the globe in Mt. Kosciusko.

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AGENTS WANTED Agents are coining money. Send 50c for Canvassing Outfit and Contract for territory.

Big Book, 7x10, Price \$2.50

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marked with waving lines and spots of blueish black. Orange and black were Lord Baltimore's color, and that's where he gets the name. Everybody likes him, for he's such a handsome fellow and sings so well, besides he has no bad habits."

"He is pretty, all right," said Robin, "and none of them can beat him singing, either."

"I'll show you how to make the pansy-bed now, and when you come Saturday, I'll tell you about the catbird you were mocking awhile ago."

And I left him working busily, his mouth puckered to the catbird's call again.

Tom is Reliable.

"Are you sure that Tom put that letter into the office this morning?" asked Mr. Downe of his wife.

"Sure," answered his wife, quietly. "Did you tell him to be sure? Did you say how very important it was for it to go? Did you impress the duty upon him?" he asked, excitedly.

"I did not." answered Mrs. Downe "because I did not know its great inportance; but I am sure Tom took it in season, and put it in himself. Tom never fails."

"That is a great thing to say of anybody, especially of a boy of his age," said he.

"Tom is reliable!" said the lady. "Reliability is the first and great thing in a business man; and, if Tom has got it to the extent which you give him credit for, he is worth his weight in gold," was the reply.

Mr. Downe went to his office, and in two hours he received a telegram in answer to his letter. "Tom is reliable!" cried he.

Tom is a hired boy at Mr. Downe's; but his reliability has made him friends willing to do anything to help him on in the world. His reliability will be to him a fortune, a fortune

Seldom Wear Out

Dr. Miles' Anti-Pain Pills relieve pain-not only once, but as many times as it is necessary to take them. Many persons who suffer from chronic ailments find in them a source of great relief from the suffering which they would otherwise be compelled to endure. Their soothing influence upon the nerves strengthen rather than weaken them. For this reason they seldom lose their effective ness.

"I am 62 years old and have suffers for 42 years from nervous troubles rheumatism and neuralgia, paipitales of the heart, shortness of break sleeplessness, and pain around the heart. The Dr. Miles Anti-Pain plant have been a blessing to me. I derive the what I should do without the and they are the only remedy I have ever used that either did not was out in less time than I have been sufficiently been than I have been sufficiently been than I would be obliged to case their use."

27 Carter St., Chattanoosa, Dr. Miles' Anti-Pain Pills are sold your druggist, who will guarantee in the first package will benefit. fails, he will return your money. 25 doses, 25 cents. Never sold in but Miles Medical Co., Elkhart, Ind.

Miles Medical Co., Elkhart, Ind

HENRY W. ROBY, M. D. SURGEON 730 Kansas Avenue. Topoka, Kansal can not take wings. How many who read this are thus rich? Evangelical Messenger.

Club Department

MORES OF THE STATE FEDERATION OF WOMEN'S CLUBS.

Mrs. May Belleville Brown, Salina
President Mrs. N. I. McDowell, Salina
Secretary Mrs. W. D. Atkinson Parsons
Secretary Mrs. W. D. Atkinson Parsons
Mrs. H. B. Asher, Lewrence
saret Mrs. Grace L. Snyder, Cawker City
itor

Our Club Roll.

celaior Club, Potwin, Kansas, (1902). omen's Literary Club, Osborne, Osborne Coun-(901). men's Club, Logan, Phillips County (1902). metic Science Club, Osage, Osage County is Social Society No. 1, Minneapolis, Ottawa nty (1888). altro Club, Highland Park, Shawnee County ins Club, Phillipsburg, Phillips County (1902). tersteur Club, Ford, Ford County (1902). ry Valley Women's Club, Iola, Allen County). est Side Forestry Club, Topeka, Shawnee Coun-loute 8 (1903). graight Club, Grant Township, Reno County ogressive Society, Rosalia, Butler County (1908) mant Hour Club, Wakarusa Township, Doug-

ounty (1899). Lady Farmer's Institute, Marysville, [Mar-Country Club, Anthony, Harper ty. hardson Embroidery Club, Madison, Greenchardson Ethiological (2001), Gounty (1902).

County (1902).

Club, Cawker City, Mitchell entis Reading Club, Cawker City. anus Club, Russell, Kansas. emos Club, Russell, Kansas. E Sunflower Club, Perry, EJefferson County

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aldean Club, Sterling, Rice County (1904).
well Reading Club, Osage County.
se Mutual Helpers, Madison, Kansas (1906).
est Side Study Club, Delphos (1906).
mestic Science Club, Berryton, Shawnee Coun-1906).

nty (1903).

lo Club, Columbus, Kansas (1897),
ntralla Reading Urcle, Nemaha County.

ll communications for the Club Department
lld be directed to Miss Ruth Cowgill, Editor
Department.)

Program April 11.

prayeth best, who loveth best things both great and small, the dear Lord who loveth us made and loveth all." oll-call—Stories of animals. Our Dumb Friends. Importance of teaching children dness to animals. Reading, "Roger and I."

Much unkindness and cruelty to mals is due to thoughtlessness and of early training, and is not alys a sign of a vicious disposition. one studies them and becomes acinted with them one must be very d-hearted not to learn to love them be kind to them. There is much be said upon this subject and much be learned from the study of it.

I. Not only is it important to reach ldren to be considerate and kind to mals for the sake of the dumb atures, but for their own sakes that y may develop the right kind of a This topic should be well cussed and ideas freely exchanged.

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Ladies' Mutual Improvement Club.

The Ladies' Mutual Improvement b of District 68, Grant Township, wford County, Kansas, was organ-March 1, 1905, at the home of Evans. The club meets every two eks on Thursday afternoon from 2 4 p. m., at the homes of the memas they come on a list alphabetly arranged. Quarterly report, bening December 1, 1906, and ending ruary 28, 1907, is as follows: Numof meetings held, 5; members lost moving away, 1; new members ened, 4, making a total of 17 mems; officers elected once; number of tations committed or read, 19; dings, 20; songs by the club, 6; 08, 2; duets, 1; instrumental selec 18, 2; recitations, 3; discussions, 4; pes read, 2; papers, 1; talks made, donations received, 1; comforts ked, 1; carpet rags tacked, 9 nds; members not absent during quarter, 2; visitors present, 17; ney on hand at the beginning of rter, 18 cents; received, 25 cents; ense, 22 cents; balance on hand, MAY RAIBBACK, Sec.

Another Club.

he Club Column welcomes The La-Mutual Improvement Club to its and hopes the benefit to both the and Club Column may be mutual. above report speaks for itself.

Dogs and De

The strength of heredity, both in The strength of heredity, both in wild and in domesticated animals, is brought into clear light by an incident related in a recent book, "In Search of a Siberian Klondike." The authors of the book, were traveling by dog team through the wilds of Siberia.

At four o'clock in the afternoon the

dogs suddenly broke into a swift run, and we knew they had scented something that interested them. We soon perceived that we were nearing an encampment. We turned a bend in the road, and there, a hundred yards ahead of us, we saw the cause of the dog's

A team of reindeer were running for their lives. Their Tungus driver was lashing them with the whip and was urging them with all his might, for he knew as well as we that if our dogs overtook them before the camp was reached we seven men would be utterly powerless to prevent the dogs from tearing the deer to pieces. Our driver put on the brake with all his might, but it had not the least effect. The fourteen dogs had become wolves in the turn of a hand, and no brake could stop them. There were many stumps and other obstructions along our way, and my driver had great difficulty in preventing a smashup.

For a short time the deer held their

own; and, in fact, gained on us; but before the yurta (village) came in sight we were gaining rapidly. While we were still at some distance the people of the village, warned by the cries of the dogs, comprehended what was the matter, and, arming them-selves with sticks and spears, came running towards us. As they came on they spread out in a fan-like formation across the trail. When the terrified deer reached the line, the men spread out and let the team through, and instantly closed again to dispute the passage of our dogs.

Our driver was nowise minded to let the natives club his dogs, and perhaps injure the valuable animals, so he resorted to the last expedient. Giving a shout of warning to me, he suddenly, by deft motion, turned our sledge completely over, landing me in a snow-drift on my head. In this position the sledge was all brake, and the dogs were forced to stop. They were leaping in their harness and yelling like flends incarnate.

I sat up in the snow bank and laughed. The other drivers had followed our example, and the struggling tangle of sledges, harness, dogs, and men formed a scene that to the novice at least was highly ludicrous. The drivers and the village people were belaboring the dogs, and the entire herd of reindeer belonging to the village was escaping in all directions up the hills.

The reader may well ask how the natives can use both dogs and reindeer, if the sight of a deer has such a maddening effect on the dogs. The explanation is simple. The two never go together. There is the dog country and the deer country, but they do not overlap. Confusion is often unavoidably caused by travelers with dogs through a deer country, but the natives do not take it in ill part, knowing that if they themselves have to travel with deer through a dog country they will cause quite as much inconvenience.

Various Definitions of Pluck.

There are numerous definitions of "pluck." Here are a few of them: Confidence and courage in the face

of difficulty.

Unceasing energy and determina-tion under trying circumstances.

The determination to struggle manfully, regardless of opposition, to accomplish your purpose.

with Silent endurance coupled cheerful energy.

The power of a man to say "no" when he knows his wife wants him

to say "yes." Pluck is that spirit in man which fails to understand the meaning of despair.

Fearlessness free from foolhardi-

That which enables one when fighting against adverse circumstances and knocked down, to rise and try anoth-

The heart of a lion in the body of a man.

The best remedy for despair. The force which converts an ordinary man into a hero.

The absence of fear in the presence of danger.

BACKACHE AND DESPONDENCY

Are both symptoms of organic de-rangement, and nature's warning to women of a trouble which will soon-er or later declare itself.

er or later declare itself.

How often do we hear women say,
"It seems as though my back would
break." Yet they continue to drag
along and suffer with aches in the
small of the back, pain low down in
the side, dragging sensations, nervousness and no ambition.

They do not realize that the back
is the main-spring of woman's organ-



is the main-spring of woman's organism and quickly indicates by aching
a diseased condition of the feminine organs or kidneys, and that aches
and pains will continue until the cause is removed. Lydia E. Pinkham's Vegetable Compound

made from native roots and herbs has been for many years the most successful remedy in such cases. No other medicine has such a record

successful remedy in such cases. No other medicine has such a record of cures of feminine illa.

Miss Lena Nagel, of 117 Morgan St., Buffale, N. Y., writes:— "I was completely worn out and on the verge of nervous prostration. My back ached all the time. I had dreadful periods of pain, was subject to fits of crying and extreme nervousness, and was always weak and tired. Lydia E. Pinkham's Vegetable Compound completely cured me."

Lydia E. Pinkham's Vegetable Compound cures Female Complaints, such as Backache. Falling and Displacements, and all Organic Diseases. Dissolves and expels Tumors at an early stage. It strengthens and tones the Stomach. Cures Headache and Indigestion and invigorates the whole feminine system. Mrs. Pinkham's Standing Invitation to Women

Women suffering from any form of female weakness are invited to write Mrs. Pinkham, Lynn, Mass. Her advice is free.



One-way tickets at this low rate will be on sale daily, March I to April 30, at Kansas City and St. Joseph, Mo., and all Santa Fe stations in Kansas and Oklahoma. Corresponding rate from other points.

Free chair cars; tourist sleepers, small extra charge.

Personally conducted parties tri-weekly.

A sensist booklet, with full information about the trip and trains, will be sent free on request. Valuable information about lands in our folders, "San Josquin Valley," "Free U. S. Government Lands," and "The Earth."

J. M. Connell, General Passenger Agent, The Atchison, Topeka & Santa Fe Ry., Topeka, Kansas.

Barn Plans and Outbuildings

New, revised and greatly enlarged edition, Modernized and brought up-to-date

EDITED BY EDWIN C. POWELL

A reliable guide to those intending to build new barns or to remodel old farm buildings for any and all purposes.

The proper and economical erection of barns and outbuildings requires far more forethought and planning than was ordinarily given to their construction. But with modern ideas, proper appreciation of sanitary conditions, and the use of labor-saving implements, a barn that twenty-five years ago was considered perfect would not meet present require-

Outline of Contents:

After an introductory chapter on the general rules to be observed in barn building, special chapters give detaild information and illustrations on

SENERAL PARM BARNS PATTLE BARNS AND STABLES CATTLE BARNS
CATTLE SHELTERS
SHEEP BARNS AND SHEDS
PIGGERIES PIGGERIES
POULTRY HOUSES
CARRIAGE HOUSES AND HORSE BARNS
CORN HOUSES AND CRIBS
ICK HOUSES

ments.

ICE HOUSES AND COOL CHAMBERS DARY HOUSES CREAMERIES AND CHRESE PACTORIES SPRING HOUSES GRATARIES SHORE HOUSES DIOGENIALIS HOUT CELLARS AND ROOT HOUSES BUILDINGS OF VARIOUS KINDS, ETC., ETC.

All descriptions and directions contained in this volume are given in so plain and clear a manner as to be readily understood by anyone. Every professional builder, and every person, be he farmer or otherwise, who intends to erect a farm building of any kind, can, in this book, secure a wealth of designs and plans for a very small sum. With 375 illustrations, 5 x 7 inches, 404 pages.

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THE KANSAS FARMER CO. TOPEKA, KANSAS

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Dairy Interests

The Mechanical and Chemical Effect of Milk on the Human.

EDITOR KANSAS FARMER:-Milk is the normal secretion of the mammary glands of all mammals, and the milk of all mammals has a similar composition, consisting of fat, sugar, albuminoids, mineral constituents, and small quantities of other compounds. The milk of the cow has been studied in greater detail than that of any other animal on account of the extended use of this animal's milk and the products derived from it as human food. Our knowledge of the chemical composition of cow's milk is indeed very complete, while studies, more or less incomplete, have been made of the milk yielded by woman, the goat, the ass, the mare, and the sheep. While there may exist a wide difference in the sustaining qualities of the mammary secretion of different animals as applied to man, this difference will be found not only in the chemical properties of the milk, as given by chemists, but we will also add that there is a mechanical effect which milk produces on the human tissues that must not be lost sight of. There is also a vitality which the animal that produces the milk has that is essential. This vitality is marked by certain characteristics which are all important and to which we will refer later. Briefly, our scheme is to show the mechanical and chemical effect of milk on the human, and why the Holstein-Friesian cow is the foodproducing ideal.

While the chemistry of the different constituents of milk is only in its infancy and it may seem premature to discuss such at this time, still for the purpose of this paper it will he quite necessary to hint at some of the obscure truths. A word first as to the individual constituents of milk; the fat, for instance, is of peculiar and complex composition; it differs from other fats in that it contains compound glycerine. This exists in milk in small globules and each globule is surrounded by a true mem-brane. Now, this last is a proven fact, and I would ask you not to debate it for the present but bear it in mind for future use in the study of this paper.

The sugar in milk is also of peculiar nature; that of the cow's milk is called "lactose," or, more commonly, sugar of milk. It is generally assumed that all milk contains the same sugar, and while it may be so, it is a fact that the sugar of one animal seems to have a property not found in that of another; for instance the sugar of the milk of the mare has the property of easily undergoing alcoholic fermentation, a property not possessed by the sugar found in cow's milk. It is also a fact as stated by Carter that the sugar of the human milk is not identical with that of the milk of the cow, though the properties seem to be the same. Again we find that milk sugar exists in several modifications which are distinguished from each other chiefly by their behavior under certain atmosphere, even polarized light being sufficient to break up milk sugar into a modification of itself.

Our present knowledge of the albu minoids of milk is far from complete, though much work has been done on the subject, this is due to the fact that it is extremely difficult to obtain these compounds in anything like a state of purity. The milk albuminoids are bodies of complex composition containing carbon, oxygen, nitrogen, hydrogen, phosphorous, and sulfur. The way in which these elements are combined is not known, but that they exist differently in the milk of different animals is a fact borne out clinically rather than chemically. It is this fact that undoubtedly suggested the comprehensive term "vitality" to Professor Carlyle as related by Mr. Cortelyou in his address of the twentieth annual meeting of the Holstein Friesian Association. It was this fact that Professor

Holt had in mind when he said that in infant feeding there is a difference among the different breeds, it may be slight but that difference is shown on the delicate human organization. I think he must have had the Dutch cow in mind when he said, select a large, strong, healthy cow and the little difference will not be noticed, and follows up by cautioning the student concerning the fact that tuberculosis is more common in the Jersey than in any oth-

Taking up once more the albuminoids, we repeat that they differ in the milk of different animals. They may be divided broadly into two classes, namely, those like the cow and the goat which give a curd on the addition of an acid, and those like the human and the mare which do not. Now the curd found in the cow is composed of casein, which is composed in the main of earthy phosphate; the presence or absence of which causes the difference in the albuminoids of the two classes. Besides casein there exists in all milks a second precipitated by acids, but will be coagulated by heat. There are other albuminoids described in milk, but enough has been said excepting to allow me to reiterate that the elements found in the albuminoids very in different animals and this without disturbing the general complex make-up of the milk.

BAT/TR. Henkel and Bechamp are about the only authority. They admit the presence of potassium, calcium, chlorides, phosphates and magnesium. Henkel has gone so far as to find an organic acid, (described as Citric acid) in some samples of milk, and while this result is not universally accepted, for the sake of future reference please keep this point in mind. If you can only see with me that the atoms composing the different elments of which we have been talking are so delicately arranged, and the molecules built up in so complex a manner that they cannot be disturbed, you would then understand how even a slight change in some one elment would make a vast change in the whole. This is so to such an extent that in the large-percentage of cases where the milk is modified the child or invalid does not thrive. By some writers it is said that the reason that the milk of Jerseys does not agree with subjects of low vitality is that it is so rich in fat that when in combination with the digostive ferments produces a substance that is absolutely toxic. This I feel is not quite true. The difference we will find to be a physiological and mechanical derangement. Physiological in the fact that it is impossible for the large membranous covered fat globule of the Jersey to crowd through the microscopical cells of the digestive organs which they do when assimilation is perfect. If forced they will indeed produce an active mechanical irritation resulting in numerous disturbances of the alimentary tract, while with the Holstein's milk the fat globules are so small that they readily pass by endos-

mosis through the cellular tissue. Professor Holt in his summary from figures compiled from sixty thousand analyses collected by Mr. Gordon of the Walker-Gordon Milk Laboratories made from the American grades and common natives says, leaving out the Jerseys, the average of the different breeds of cows are remarkably uniform in their total solids. Now if it is a fact that there is little difference in the component parts between the Holstein and other dairy breeds, wherein are we to lay claim to this superior Vitality in the Dutch milk, in two ways, first, the chemical combination of all the elements of the milk, in one breed this combination will produce one result, while in another breed these elements combined will produce entirely different results. In other words, in one breed these elements are opposed. How is this so? Well just as one manufacturing pharmicist will make a certain preparation composed of two or more ingredients, and the results when given to the body are good. Another pharmacist analyzes the product and prepares as he thinks the same, but the result on the body is disastrous. Why? Because there is -more but If you can increase your butter production without any increased cost or any more work won't it pay you to do it? And if you can get more butter from you milk with less work, that will be still better, won't it? That's exactly what you can do if you will do as Mr. LEITING did—buy a Sharples Tubular Separator. Here's what he says about the Tubular:

Randolph, Nebraska, Feb. 15th, 1906.
Gentlemen:—On the 23rd day of January, 1906, I took a No. 4 Sharples Tubular Separator on trial. On learning that I was in the market for a cream separator, the agent for the disc style "bucket bowl" separator brought one to my farm and requested me to give it a trial before making a purchase. After giving both machines a fair trial, I concluded to keep the Tubular as I consider it far superior to the other machine. It skims closer, runs easier, and is very much easier to wash, there being so many less parts. From three skimmings of milk from 7 cows, we were able to make 1% lbs. more butter with the Tubular than we could with the "bucket bowl" machine. B. LEITING.

The Sharples Tubular Separator

MORE BUTTER MORE MONEY gets all the cream there is in the milk, does it so easy that it's not work to run it at all, and is so simple, with only one little part in the bowl to wash and keep clean that comparison is out of the question.

The extra cream it gets makes the Tubular a regular savings bank for its owner.

All the other good money-making points are told in book F-165, which you ought to read. Write for it today-we'll send it free to you.

THE SHARPLES SEPARATOR CO., Toronto, Can. WEST CHESTER, PA.

Ohloage, III.

that lack of what is known in medicine as a happy combination. So it is between the different breeds. It would be so easy although all the elements are present in a certain milk there might be that lack of harmony which would change the final sum. For instance, diamonds and charcoal, chemically the same, but such a gross difference in the completed substance. Now what would produce this lack of harmony in the different elements of milk in the several breeds (another claim to superiority) namely, the breed itself. The quality in a breed is one of the most important factors, and that which influences most of all these factors, and that which influences most of all these factors is first, the duration of the purity of breeding without admixture of alien blood, and second the unformity of type, and the inherent vigor of that type.

It is doubtful if any breed of cattle has been bred pure for a longer period than the Holstein, and the inherent vigor of the breed is indisputable. It matters little with what breed or type a Holstein bull is mated the offspring is almost sure to resemble the sire markedly in characteristics, particularly so in color. I speak of this prepotency because it is the vital factory in holding all of the delicate arrangement of the molecular formation of milk in happy relationship. On the other hand take a breed of delicate constitution, nervous and predisposed to all outside influences, are they not more apt to cause an unbalanced condition of all those elements that go to make up the milk. If this is not so then how are you going to explain the fact where a hospital full of patients (ranging from infancy to old age) fed on the milk of a certain breed, no matter how diluted or modified failed to thrive, but when changed to the milk of the Holstein-Friesian a marked change was shown. I do not think I am presuming too much when I say that it would not be unreasonable to expect in two different milking breeds where all the elements of this great chemical combination are practically in the same proportion, yet one ingredient not up to standard, (low grade of phosphorous or poor sulfur for instance would sacrifice the whole. In

other words the difference in the di-







(Patented May 15, 1906.)

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WATERLOO,

CRAVE. It does the ness. Write today for p The Niko Med. Co., Wichita, Kas estibility of one cow's milk over nother is dependent upon the differ: nce in their moiecular arrangement nd not whether they are rich in fat The time is not far distant when the Boards of Health and city overnments will insist not on a high rade of fat, but on a high grade of olids, a fine molecular combination nd few bacteria, as most hospitals o now. Right here, it might be patent o add, that Walker-Gordon represennive replied in answer to my quesion-if left with no other means of eeding infants than raw cows milk. hat breed would von choose, "Holtein" because it comes nearer a balnced ration than any other. To the dolstein breeders I will say you have your breed all that can be desired or the production of a pure food prouct, to say nothing of other grand milities, so don't waste your time ying to bree I an absurdly high perent of fat to the detrineeut of inborn valities, qualifies that have made the lolstein-Friesiau the head of all dairy ACTION E. GUE, M. D. reeds. Detroit, Mich

Joke on City Fellow.

"Did you ever notice," asked the ecktie clerk, "how the average city ellow lords it over the country boy? hinks he's wiser and better, you It's natural. I thought that ay until I mixed with a few simon ure country boys, and then I tum-led. You see, my old man bought farm down in Kansas, and I went lown there to run affairs. I was pie or the rubes. Course I couldn't milk cow, and that tickled them to leath. But I learned to milk, on the ulet, you know, and figured on turnng the laugh. I got so I could play regular tune in the pail, and hought I was onto everything. I was fool, too. Well, one Sunday the oys held an outdoor entertainment a pasture. Everything was allowed out biting and scratching. Of course, got the brunt of the rustic wit, and wasn't half bad, either. But when was passed around that I couldn't milk a cow I just smiled. 'Any one ant to bet?' I asked, thinking of me easy money. They figured for a w minutes, and then scratched up 10, and I covered it. "Trot 'er out," says, feeling kind of guilty. They lidn't know about my private lessons. Well," continued the necktie clerk, tranging his stock on the table, they trotted her out—the cow, you now-and I settled beside her on a ne-legged stool and went after the uice. But nothing came, and everyody guffawed. I couldn't coax any nilk out of that critter for love or money. The cow stood my abuse for en minutes and never said a word. she was a model of patience. 'I quit. t's all yours, gentlemen,' I says. On he way home I confided my troubles o an old farmer who had witnessed he struggle. 'No more farming for ne,' I said. 'Trouble is with you city chaps you never learn,' replied the old man. 'Those boys sicked you on dead issue.' 'Explain, neighbor,' I 'Why, nobody couldn't milk hat cow. She's been dry for two nonths.'"—Kansas City Star.

Building Up a Herd.

The herd of a well-known Missouri lairy woman who has spent six years her time and nearly one thousand lollars in money (which, by the way, as earned by the herd as it was was earned by the neru as built up), started originally with two lows of the Jersey breed, and was idded to from year to year. Now her erd numbers about thirty-five head. Year ago she sold about thirty head t a public sale, as the herd was geting too large to manage with the mount of help that was at her com-nand. In all there has been purhased eleven breeding animals durng the time that this herd has been
the building. From cows that vere very ordinary in their quality of pilk it has been built up to a herd ow averaging almost 5 per cent buter-fat, and in many cases the indiidual cows will test about 6 per cent utter-fat the year around. The good elfers have been retained in this erd from year to year and used in

it after they reached a certain standard. The males and poor helfers have been disposed of at very good prices. Good helfers can not be purchased; their breeders will hang on to them very tenaciously, and it is only when a Jersey breeder desires to sell out his entire herd and business that he will part with his best cows. Good helfers will grow in richness of butter-fat from their first to the third or fourth freshening period, and at about 5 or 6 years they are in their prime.—Farm Life.

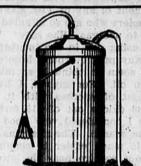
Cow Intelligence

The true dairy-cow is a very intelligent and affectionate animal. have many reasons for believing that the main prompting factor of the bucterial secretory organs is that affection, or in other words maternal instinct. Almost without exception our best dairy producers are the most intelligent, the most affectionate, and of a rather nervous disposition. Or in other words, their nervous system is highly organized and developed and of a very sensitive nature. Every dairyman well knows that any irregular attention, unkind treatment, unusual excitement will react unfavorably on the cow. The man who keeps a record of his cows has frequently observed that the new milker got less milk and often less butter-fat than the good old milker would get from the same cows, or if for any reason the cows were frightened or excited before milking time there was less milk and less fat in that milk than normal. So often I am asked how to cure a kicking cow, and I always reply that it is not the cow that needs curing but the milker. The man who makes a real study of cow nature, the student of animal psychology, knows that the man who is really master of himself may easily become absolute master of all lower animals.

Did you ever watch that frail girl step into the arena and make the lions and tigers do her very bidding and then next week go to the institute and ask how to cure a kicking cow?

First gain the animal's affection, but invariably assert and impress your superiority, and you will never lose control. I hear some one remark, "This is all theoretical sentimentalism;" but very little observation would convince him of his error. The best cows in my stable frequently begged, in their own knowing way, to be milked, and when I would sit down to do the milking they would just as plainly and caressingly tell me how thankful they were for the relief and pleasure I gave them. I sold cows that under the

This heading voices a most important consideration in the purhase of a cream separator, and points a most serious objection of the purhase of a cream separator and points a most serious objection of the process of a cream separator and points a most serious objection of the process of the p



Destroy the Gophers

In Your Alfalfa Fields by Using

Saunder's Gopher Exterminator

This apparatus forces a deadly gas through their runways and is warranted to kill gophers within 100 feet of operation. With it a man can clear from five to six acres of gopher-infested land in a day at a cost of twenty cents per acre. The pelson we use can be gotten at any drag store. Satisfaction guaranteed or money refunded. Complete outfit for \$5.

pplied for. Flint Saunders, Lincoln, Kans.

kindest treatment became so homesick that they absolutely refused to eat or drink for days and days until nearly famished. What was the prompting motive? Sentiment I call it intelligence and affection, but whatever you call it I assure you a knowledge and consideration of these facts will put dollars into the dairyman's pocket and real pleasure into his work.—L. W. Lighty, in National Stockman and Farmer.

What the Individual Direct Shipper's System Has Done for Others it Will Do for You.

20,000 DAIRYMEN

made glad by the adoption of the Individual Shipper's System. They get all there is in it—no middle man—no unnecessary expense. The results are satisfactory to them, and as others learn of the profit in this plan they adopt it. Our list is increasing daily.



Are you milking cows?
Are you taking cream to a receiving station?
Are you making butter?
Are you perfectly satisfied with your present market?

Did you get as much in March as we paid?

Are you getting as much now as we pay?

Dou want all you can get?

Are you hunting the best market in the West?

Write to the "Pioneers" of the system that pays the highest price.

BLUE VALLEY CREAMERY COMPANY

ST. JOSEPH, MISSOURI.

PLYMOUTH ROCKS.

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

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

BARRED AND W. P. ROCK EGGS—Hawkins and Bradley strains; 15 for \$2, 45 for \$5. Chris Bearman, Route 9, Ottawa, Kans.

BARRED P. ROCKS EXCLUSIVELY—Super-ior winter-laying strain, voted for size and quality. Eighteen years careful breeding. Eggs \$1 per 16; \$1.76 per 30. E. J. Evans, R. 4, Fore Scott, Kans.

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

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

BARRED PLYMOUTH ROCKS EXCLUSIVE-LY-Eggs \$1 per 15, \$1.50 per 30, \$4 per 100. T. B. Wilson, Route 7, Osage City, Kans.

MY BARRED PLYMOUTH ROCKS are the Bright's Watham's strain. Second prize cockerel Wichita, Kans. 1907 Three grand yards. Cockerel and pullet mating; scores up to 93. Eggs 41.50 per 18, 47 per 100. Mrs. Jas. Pringle, Elmdale, 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 4351.

30 WHITE PLYMOUTH BOCK EGGS FOR \$3

—From prize-winning pens, line bred, large size and pure white. also one M. B. gobbler for sale. I pay the express charges. J. C. Bostwick, Hoyt Kans.

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

BUFF ROCKS—High scoring, vigorous, farm raised, bred for size and laying qualities. Eggs \$1 to \$2.50 per 15, \$5 per 100; circular free. Sunny Slope Poultry Farm, Hox 406, Effingham, Kans.

BARRED ROCKS my specialty; a fine lot of cockerels from prize winners for sale reasonable. Peter Reber, Neosho Rapids, Kans.

College Hill Barred Rock and Scotch Collie Farm.

Many first prize winners in Kansas and Oklahoma. 12 females scoring 91 to 94% by McClave, Emery & Heimlock. Hens and eggs to order. Pedigreed Collies from imported prise winners. Fine young stock for sale. Mrs. J. T. Woodford & Son, 1600 E. Central, Wichitz, Kans.

LINDAMOOD'S BARRED ROCKS will surely please you. High scoring prize-winners. Pens mated now. Send your orders eary. No eggs after May 15, [From pens \$2 per 15, from flock \$3 per 100. Send for circular. Long distance phone Walton. - C. C. Lindamood, Walton, Kans.

BARRED PLYMOUTH ROCKS EXCLUSIVELY (Bradley Strain.)

Pullet-mating pen headed by a 834 point cockerel.

Cockerel-mating headed by a 83 point cock. The females score from 90 to 834. Barring extra strong.

Eggs 81.50 per 16, \$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 prise-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 Books, Mexico, Mo.

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 lat 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. -:- Munden, 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 4 to 96%, and as good as can be found anywhere. Eggs only \$2 per 15; \$6 per 46, 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.

BARRED PLYMOUTH ROCKS

-EXCLUSIVELY-EGGS \{ \frac{\$3 \text{ per 15}}{\$5 \text{ per 30}} \rightarrow \text{ Get the Best Start Right} S. T. Divinia, R. 2, St. Joseph, Mo.

BRAHMAS.

LIGHT BRAHMAS.

Prize winners—two firsts, two seconds at State Poultry Show 1907. Cockerels \$2, eggs,\$1.50. John Lichte, Route 1, Oatville, Kans.

Light Brahma Chickens Oholos pure bred cockerels for sale. Write or call on Chas. Foster & Son, Eldorado, Kas., Route 4

SALMON FAVEROLLES.

Salmon Faverolles

unexcelled as layers both winter and sum on account of early maturity and quality reight, hens 6 to 7 lbs., cocks 7 to 8½ lbs. 15. A. B. Ainsworth, Newton, Kans.

(CONTRACTOR CONTRACTOR The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Poultry Notes.

Fresh laid eggs should now be the order of the day. Remember that every good egg you sell creates a demand for more good eggs, and every poor egg sold may cause some one to become sick of eggs and a decreased market may be the result. The moral is: Sell nothing but good fresh eggs. A wholesale firm that makes a specialty of handling eggs has this to say. "From the standpoint of wholesale shippers, we have always tried to impress upon all handlers of eggs, either dealers, merchants, or farmers, that to realize a good price for eggs they must deliver good goods. What the consumer wants is eggs that are fresh, not 'were fresh,' and in warm weather an egg that is more than four or five days old can not be called absolutely fresh, any more than a fish that is caught out of the water is fresh fish, after it has been out for the same length of time. If we could have all the eggs that we buy gathered the day that they are laid, and kept in a moderately cool, dry place, and delivered to us not over four or five days old, we could realize a much higher price for them, and we believe the one great thing to impress upon the minds of the producers is care and promptness in marketing their prod-

Mrs. E. S. Myers, Chanute, has written to us saying she was running her incubator with natural gas. We asked her for her experience with the same, for the benefit of any of THE KANSAS FARMER readers who are so situated as to be able to use gas. She says: "In regard to using gas in the incubator, a great many people around here use it and all seem to think it so much better than oil. For myself, I have had the best of success with it. I hatched 186 chicks out of 215 fertile egg, which I considered very good so early in the season. The gas runs so even and is much easier to regulate and does not require near the attention that the oil does, besides saving all the dirt and bother of caring for the lamp. Any one can make the necessary fitting, as all that is needed is the little gas pipe attached to the main pipes and run to the proper place, instead of the lamp, and putting on a little gas burner with the stopcock for turning the gas on and off. One can use 1/8-inch piper or 1/4-inch will do, using a reducer where it is attached to the biger pipe. This is the natural gas that we have, and it can not be used successfully unless one has a regulator on the line to keep the pressure even. Any one who is used to burning gas will see how easily it can be used. We have our pipe fixed with a long arm, where it runs to the lamp. I move the burner up and down instead of changing the flame sometimes. By way of experiment. I found an egg that was cracked after being in the incubator two or three days and took a piece of gummed paper and pasted over the end covering all the cracks and it hatched all right."

If you wish early green stuff for your chickens, we know of nothing so easy to raise and to get plenty of it, as to sow some Essex Dwarf rapeseed. It will grow in a short time and it will grow till late in the fall. You can cut it again and again and still it will grow.

Shade of some kind should be provided for the chickens in hot weather. If you have no permanent shade such as plum- or shade-trees, it would be well to sow some Mammoth Russian sunflowers. They would soon grow up to a large size and furnish good feed for the chickens when the seeds are ripe. Castor beans will also make a very quick growth and afford excellent shade during the hot weather. But they must be sown early so



The Profit in POULTRY RAISING

To make a market bird consume a large amount of fattening food with increasing appetite, is to insure good returns at marketing time. Here is one more place where Dr. Hess Poultry Pan-a-cc-a shows surprising results. To use this wonderful tonic as directed, is to see an immediate improvement in the condition of the fowl.

DR. HESS **Poultry PAN-A-CE-A**

is the prescription of Dr. Hess (M.D., D.V.S.), and is a guaranteed flesh-maker and egg-producer. It contains a peculiar germ-destroying principle that makes Pan-a-ce-a different. Besides the tonic to the digestion, and supplying iron for the blood, it also cleauses the system and absolutely kills bacteria, the source of disease. Dr. Hess Poultry Pan-a-ce-a is endorsed by the leading poultry associations in United States and Canada. Costs but a penny a day for thirty fowls and is sold on a written guarantee. guarantee.

1; lbs. 25c., mail or cyrces, 40c. 5 lbs. 61.25. 12 lbs. 61.25. West and South.

Send 2 cents for Dr. Hess 48-page Poultry

DR. HESS & CLARK Ashland, Ohlo Instant Louse Killer Kills Lice

WYANDOTTES.

GOLDEN WYANDOTTES—Eggs from prize-winners carefully mated, fifteen for \$1.50. Also Mammoth Bronze turkey eggs ten for \$3. Mrs. E. B. Grant, Route 9, Emporia, Kans.

WHITE WYANDOTTES ONLY-15 eggs \$1. H. Brueggemann, R. 2, Herington, 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. I-Moore, Eureka, Kans.

WHITE WYANDOTTES—White P. Rocks and Rose C. B. Minorcas. Wyandottes and W. P. Rock eggs, 15 for \$1.50. Eggs for hatching from high-class poultry. R. F. Meek, Hutchinson, Kans.

WHITE WYANDOTTE EGGS from choice matings: W. Artz, Larned, Kans.

White Wyandotte Eggs per sitting \$1, or 100 for \$5. Mrs. E. F. Ney, Bonner Springs, Kas.

white wyandotte eggs \$1.50 for 15 from choice pens, \$6 per 100 from selected free range stock. Indian Runner duck eggs \$1.50 for 11; Mammoth White Holland turkey eggs \$1.50 for 9; White African guinea eggs \$1.50 for 17; a few pairs of guineas yet for sale. Order now. Mrs. L. D. Arnold, Enterprise, Kans.

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.

BLACK LANGSHANS.

BLACK LANGSHAN EGGS from fine stock; \$1.50 for 15, or \$7 per 100. Mrs. Geo. W. King, R. 1, Solomon, Kans.

BLACK LANGSHAN EGGS—\$1.50 per 15. From World's Fair winning strain. Mrs. E. Forward, Bayneville, Kans.

PURE-BRED WHITE LANGSHANS for sale. Hens \$1.25, pullets \$1 each; also a few Silver Spangled Hamburg cockerels. Mrs. John Cooke, Greeley, Kas

Black Langshan Eggs -FROM HIGH SCORING FLOCK.-\$2 for 15. \$3.50 for 30. MRS. C. S. CROSS, Emporia, Kans.

BLACK LANGSHANS

Of best breeding. Eggs for sale at \$1.50 per 15 or \$2.50 per 30. Mrs. E. S. Myers, Box 174, Chanute, Kans.

BLACK LANGSHANS

s My birds are prize-winners. Choice cockerels and pullets for sale; eggs \$1.50 and \$2. Satisfaction guar-W. M. Tipton, Route 5, Wellington, Kans.

BLACK MINORCAS.

IMPORTED, S. C. BLACK MINORCAS—The world's greatest laying strain. Eggs \$1.50 per 15. Hens \$2. Circular 5 cents. Address George Kern, 817 Osage St., Leavenworth, Kans.

LEGHORNS.

S. C. BROWN LEGHORN EGGS-\$5 per 18, per 15; birds as good as any and carefully man. Mrs. C. B. Palmer, R. 2, Peabody, Kans.

CHOICE R. C. B. Leghorn and Pekin deseggs \$1 per 15. Reductions on incubator lots. J.1 Wright, Wilmore, Kans.

S. C. BROWN LEGHORNS—8 first premiums three shows the past season. Eggs \$1 pe 1 Cedar Hill Poultry Farm, S. M. Meller Wakita, Grant County, Okla.

ROSE COMB BROWN LEGHORN EGGS IN SALE. Bred for years from the best egg lave strain. Write for prices. Bertha Gresham, Bethan, Kans.

S. C. B. LEGHORN EGGS, 30 for \$1; 100 for \$1 mrs. P. E. Town, Route 3, Haven, Kans.

S. C. W. LEGHORN AND W. WYANDOM EGGS from high scoring stock. \$1 per liking 100. W. H. Turkey eggs, \$1.50 per 9. A. F. Hog, R. 2, Maple Hill, Kans.

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S. C. BROWN LEGHORNS—Best laying state in the west. Eggs for hatching, \$1 per 13. Specific on large lots. L. H. Hastings, Route 1, the cy, Kans.

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From stock scored to 93 by Rhodes. \$1 per its
per 100. Exhibition pen cockerel bred ti
per fifteen eggs. Frank Dunable, Clay Cook
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S. C WHITE LEGHORNS. Stock and emissale. Eggs \$1 per 15. Prize winning egg and Leghorn egg man. W. C. Watt, Walton, Kan.

SINGLE COMB BROWN LEGHORNS-laying strain in the world. Eggs \$1 per sitting, \$2.50, \$5 per 100. Everett Hayes, Hiawaha L

PURE SINGLE COMB BROWN LEGHOM eggs, 30 for \$1, 100 for \$3, Jos. Caudwell, Waksa Kans., successor to F. P. Flower.

FOR SALE—Single Comb White Leghom one erels. Wyckoff laying strain. Price, 75 cents at \$1. Henry Martin, Newton, Kans.

ROSE COMB BROWN LEGHORN E668-5 for \$1.50, 30 for \$2.50, 100 for \$4. Mrs. John Holds, Bendena, Kans. STANDARD BRED SINGLE COMB BUT LEGHORNS—Headed by first prize pen. Chap show 1908 and took six first prizes and first pet Newton 1904. Eggs 45 for 15. S. Perkins, 80 ks First Street, Newton, Kans.

SINGLE COMB WHITE LEGHORN cockets at each; two or more 80 cents each. Fine, with pure, thoroughbred birds. Also a few Barrel frouth Rocks, barred to the skin, fine, pure and crous; hens, cocks and pullets \$1 each, two or may see that the country of the skin fine, pure and so cents each. All of our customers are very pleased. We will make reductions on large in Meadow Poultry Farm, Centerville, Ill.

Buff Leghorns
Pure-bred eggs \$1.5 pt 80, \$3,25 per 10. 1.1 Reed, R. 8, Wakefeld

Oberndorf's S. C. W. Leghorns

Won 18 prizes and silver cup at Kansas City it. Poultry Show 1907. Birds and eggs for sale As B. P. Rock eggs, best strains. Send your offenow. Eleanora Fruit and Poultry Farm, Cesina Kans., A. Oberndorf, Proprietor.

STOCK AND EGGS. Silver Sp. Hamburgs: 1 cockerel, 1, 2, 3, 4 pilk! pen, at great Wichita show. S. C. W. and Brea Leghorns; Black Minorcas; 15 eggs Blue Ribbon St. 2, d best \$2; utility pens headed by high soft males \$1.00; M. Bronze turkey eggs \$2 per \$, sekst 50c each. Vira Balley, Kinsley, Kans.

STAY WHITE

S. C. W. Leghorn and Buff P. Rock eggs it pri At Nickerson show 1907 (Heimlick Judge) I was cubator on highest scoring cock, cockerel, hes, pi let in Mediterranean class. On Rocks took look 1, 2, 3 hen. Mrs. J. W. Cook, R. 3, Hutchinson, is

Galva Poultry Yards R. C. White Leghorns and White Wyansons 30 prizes in 3 shows. Eggs \$1, \$1.50 and \$2 per sizes.

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Your Eggs for Hatching -From-

W. S. Young, McPherson, Kans,

the old reliable breeder of Rose Comb and Sad Comb White Leghorns and White Wyandotte, by their purity. The greatest egg-laying strain has West.

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I have over 200 selected hens, snow white set bodied and bred for large egg production, with show bird cocks. My flock has farm as Eggs 15 for 75 cents, 30 for \$1, 100 for \$3. I miss all broken eggs. Eggs 15 for 75 ce all broken eggs.

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SCOTCH COLLIES.

SCOTCH COLLIES—Am taking orders, for the litters of fine pupples, brom \$5 to \$10. Sired the grandson of Ormskirk Galopin. A. P. Carlo North Topeka, Kans.

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PURE-BRED White Scotch Collie Pupples sale. C. Q. Smyth, Box 655, Ponca City, Okia

Scotch Collies

Fifty-seven Collie pupples just old enough prince your orders early, so you can get on so choice ones.

Walnut Grove Farm, Emporia, Especially and the control of the contr

PHODE ISLAND REDS.

NEOSHO POULTRY YARDS.

NEOSHO POULTRY YARDS.

Rose Comb R. I. Reds.—Score from 90 to 94% points.

ren years experience with this breed. Eggs for year years experience with this breed. Eggs for year years experience.

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HODE ISLAND REDS—Cockerels, R. O. R. I. ds from prize winners. Red to the skin. Eggs in 808. Good Hope Fruit & Poultry Farm, Troy, Ks

DNE DOLLAR buys 15 eggs of either Rose Comb I. Reds or Barred Rocks from prise-winning ck at the College show. Mrs. A. J. Nicholson, inhatian, Kans.

C. RHODE ISLAND REDS—Won at State 1807, 18t, 2d, 4th. Eggs \$1.50 per 15, flock \$5 (10) Mrs. D. A. Sheaks, Walton, Kans.

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R. C. R. I. Reds—Pure-bred cockerels for sale \$1 bb. A. L. Scott, Route 1, Larned, Kans,

OR SALE—Rose Comb Rhode Island Red chick a. High grade Red Polled bull calves. J. W mitton, Medora, Kans.

GOLDEN RULE FARM.

R. C. Rhode Island Reds. Won fourteen prizes on Reds at the two great Kansas State Poultry ows January 1906-7. No stock for sale. Eggs rhatching. Egg circular free. A. D. Willems, nneola, Kans., (formerly of Inman, Kans.)

ose Comb Rhode Island Reds PRIZE WINNERS

Eggs from select matings, average score 92 points, esecond and third pullet and third hen at State ow 1906, and first cock and first, second and third illet at Topeka 1907, are in these matings. Eggs, per 15. Pen No. 2, males score 91% and 91 points, etc unscored females; eggs \$1.50 per 15. Utilty n, all good, pure stock: eggs, \$1 per 15. Special tees on large quantities. A few good cockerels yet rale. LEON CARTER, Asherville, Kans.

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HINGLE COMB BUFF ORPINGTON AND LACK MINORUA EGGS for setting, \$1 for 15. J. Stratton, Reading, Kans.

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BUFF ORPINGTONS AND BUFF LEGHORNS Won first pen State Show; catalog free. W. H. Arwell, 1924 McVicar Ave., Topeka, Kans.

HOICE Buff Orpington and B. P. Bock cocker, Collie pups and bred bitches. Send for circula -B. Williams, Stella, Nebr.

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5. C. BUFF ORPINGTON EGGS—From pens aded by high-scoring cockerels; \$1.50 per fifteen; 50 per thirty, \$3.75 per fifty. Range eggs 50 cents r filten,\$5 per hundred. Nellie E. Lyons, Berry h, Kausas.

S. C. Buff Orpingtons

-EXCLUSIVELY.—
Winners at four shows. Bred for winter layers ags for sale. Send for free circular and show nulngs. B. D. Hungerford, Canton, Kans.

TURKEYS.

MAMMOTH WHITE HOLLAND TURKEYS gs for sale from a long strain of prize-winning as mated to a 40 pound yearling tom. First prize nuer at Missouri State Fair. 10 eggs for \$5.

Address Mrs. Forest Nave, Lexington, Mo.

WHITE HOLLAND TURKEY EGG8-\$1.50 per ne, \$4.50 per thirly. Inquiries promptly answered. J. Sweeney, St. Marys, Kans.

MISCELLANEOUS.

TOULOUSE GEESE, PARTRIDGE COCHINS— gs \$1 per sitting of seven and thirteen. Mrs. G. Rhoads, Route 6, Columbus, Kans.

AGENTS—To sell and advertise our Poultry Com-und; \$35 weekly; rig furnished. Franklin Manu-turing Company, Norwalk, Ohio.

WEBER'S POULTRY

Berlier 25 varie

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ducks, geese,
prices on eggs for hatching.
A. WEBER,
Box 79,
ties pure bred chickand turkeys. Quotes
Mailed for 2 cents.
Mankato, Minn.

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GILT EDGE POULTRY CO. Eggs for sale from 24 different varieties of poultry, luding Toulouse geese, Pekin ducks and M. B. Reys, Each breed on separate farm. Write for lalogue.

Walter Hogue, Fairfield, Neb.

EGGS! EGGS! EGGS!

Rouen and kin duck eggs, 18 for \$1. Muscovy duck eggs, 9 1, 18 for \$1. Muscovy duck eggs, 9 1, 18 for \$1. Bronze turkey eggs, 9 for \$2. Peacocks, red and White Plymouth Rocks. Houdans, Buff chins, Silver Spangled Hamburgs, Cornish Indian mes, Buff Orpingtons, Rhode Island Reds, Brown, If and White Leghorns, Buff, White and Silver ced Wyandottes, Pearl and White Guineas, Golden bright Bantams, Buff Cochin Bantams. Eggs 15 18 Also sell by the 100. All kinds of fancy plons for said called the companies of the co

OPEKA POULTRY BREEDERS

he fifty members of the Topeks Poultry Breed-Association raise all varieties of pure-bred poul-Transactions of members guaranteed. Send list of breeders and varieties.

W. H. MAXWELL, Secretary, 90 McVicar Ave. Topeka, Kansas

MERICAS CENTRAL TO HOUN POULTRY PLANT A Minima

Our Fully Illustrated Catalogue

of high-bred and prize-winning poultry is now ready. Send for it today; it's free we have 75 fine and big young Mammoth Bronze turkey toms for your 4 to 48 each.

A. LOVETTE, Prep., MULLINVILLE, KANS.

as to be fully grown by the time hot weather strikes the chickens.

A correspondent wants to know the proper amount of green bone to feed laying hens. There is no proper amount; that is, it is immaterial whether you feed a flock any specific amount each day or whether it is fed every other day. We prefer feeding it occasionally, say two or three times a week and not making a regular ration of it. About two pounds of cut green bone three times a week to a flock of twenty hens would be about

Stuffed-Geese Industry in Wisconsin.

The stuffed-geese industry around Watertown is growing yearly until now it has reached a total of more than 5,000 geese marketed here this season, with an income to the farmers raising them of more than \$25,000, or an average of over \$5 for each goose, says a Watertown, Wis., paper. One farmer alone will this year receive the sum of \$900 for 154 fowls, or nearly \$6 apiece. This enormous product is marketed all over the United States, and is purchased chiefly by the Jews, who use the fat in place of butter and make pate fe fole gras of the liver, which grows to an enormous size during the stuffing period, some of them weighing 31/4 pounds. These large livers are taken from geese which weigh 30 pounds and more, one marketed this season weighing 34 pounds. The heaviest ever marketed here so far as known, weighed 36 pounds. The price paid for these geese is the average weight of the lot. If they average 24 pounds the farmer receives 25 cents a pound for them.

In the preparation of the geese for market great care must be taken, as the slightest injury before killing will destroy the goose for marketing purposes. After killing, great care must also be taken in dressing the fowl as the skin is very tender and liable to split open if not handled carefully. The stuffing season usually is three weeks, although some make the period shorter and some a trifle longer. The geese are not nailed down by the feet, as some people imagine, but are kept in pens toward the close of the season with plenty of water within easy reach. The noodles with which they are stuffed are generally prepared from a mixture of rye and wheat flour which is baked in the oven and afterward can be softened before giving to the fowl. During the first and second weeks the stuffing is done at certain regular intervals, but during the last week they must be attended to almost hourly, day and night. This is generally attended to by the women of the household, although sometimes the men look after the work.

When marketed the poultry have a very inviting appearance, being plump and snowy white, with not an abrasion or bruise, and tied so as to resemble a huge roll of white butter. They are stuffed by the farmers upon orders from the local dealers, who in turn have orders for the fowls away in advance of the season.

Which Breed Lays the Most Eggs? The question of which breed lays

the most eggs is one of interest to all poultry-keepers. Some effort at finding out will be made at the Jamestown Exposition. A site of five acres by the manage position to the poultry associations of the United States on which to make the experiment. A prize of \$500 in gold will be awarded the pen making the best record, also a series of other valuable prizes will be awarded best pens of each breed, and best hen of the lot. The contest will begin May 15 and end October 15, and is open to all breeders of the United States. Each pen is to consist of ten hens and one cock, each breed to be represented by not less than five pens, all fowls to be pure bred. The number of fowls to be limited to 2,500. Further details will be furnished by Laurence Waring, of Norfolk, Va.

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My first range consists of 100 large white hens weighing from 8% to 10% pounds, headed by eight large, white cockerels from my first pen. Stock—100 eggs \$10; 15 eggs \$2 Second range—100 eggs \$6; 15 eggs \$1. First pen—100 eggs \$25; 15 eggs \$5. Second pen—100 eggs \$15; 15 eggs \$3. You run no risk when you buy eggs of me. Satisfaction guaranteed.

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Breeders of the best in the world. Strain of Buff, Brown and White Leghorns, Barred Rooks and White Wyandottes. My birds have won at Chicago, Galesburg, Moline, Illinois, Freemont, Hebroniahd State Poultry Show of Nebraska, and they will win for you. 500 old birds for sale at \$1.50 each; also 1,000 youngsters at \$1.00 and up.

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Our stock won more premiums and specials at Hutchinson State Fair, Great Bend, Salina, Wichita State Poultry Show and Nickerson than any breeder in the west which is positive proof that they are

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Buy eggs from these birds, improve your flock and win the prises at the coming shows. Safe arrival and fertility guaranteed. Prices, \$1, \$2 and \$3 per 15; \$5, \$10 and \$15 per 100.

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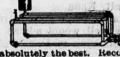
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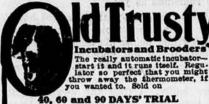
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ally enclose a 2-cent stamp. Write acrosser: "To be answered in Kansas Farmer."

Mare with Kidney Trouble,-Kicking Mare.—I have a 7-year-old gray mare, weighing 1,300 pounds, that has leidney trouble. While urinating will strain quite badly when driven on the road. Has been this way for about three months. I have also an 8-yearold sorrel mare with white stripe in face, that kicks during the night in the barn. I have tried strapping a chain around her ankle but it only J. H. H. made her worse.

Banner, Kans. Answer.—Give your mare that has kidney trouble one-half ounce of Sanmetto three times daily before eating. Place the Sanmetto in about four ounces of water. It can be given with a syringe.

For your animal that kicks, if you have been unable to stop the habit by the use of a strap and chain, it might be well to put her in a stall away

from all other animals. Mare Not Doing Well.—I have a 3-year-old mare that hasn't done well since last September or even before then. I gave her some powders about a month ago to see if she had any signs of worms but didn't see any with the exception of one time, and that was a long white one. I am feeding Kafir fodder part of the time, some drilled with heads on. I do not feed any grain, but feed bran occasionally and salt and water, but she seems to get poorer while others are picking up. They all had a cough but she doesn't seem to cough any now. Her hair is long and rough. If you can give me any advice, I will appre-W. A. W. clate it very much.

Pratt. Kans. Answer.-For your mare that is not doing well would advise you to have the following tonic medicine prepared for her: One ounce gentian, 2 ounces fenugreek; 1 ounce nux vomica, 1/2 pound splfur; 4 ounces common salt; 8 ounces glycyrrhiza root. Mix with 15 pounds of oil-meal and give heaping teaspoonful twice daily in ground

Strongylus Armatus Worms,-I have an 8-year-old black work horse that has been sick for about five He acts crazy-like, and is blind, stiff, and excitable. When I go to lead him, he rears up and falls backward. I would like for you to write me what I can do for him.

Unit. Neb. A. L. A. Answer.-We are sending you a press bulletin on "A Troublesome Parasite" or the Strongylus Armaius worm which I fear is the trouble with your horse.

Ailing Ewes.—I have a number of ewes, ranging from 4 to 5 years old that are very poor and thin. I have lost one and am about to lose another. ove fed different stock foods but they seem to lose flesh right along. They will cough as though there were pieces of loose pus in their lungs, and run at the nose. Their bowels are in natural order. They seem to urinate quite frequently. They will linger perhaps three or four days before dying, being unable to get up. I feed timothy hay, corn, straw, cow-peas, and corn tooder and they eat well. They get plenty of feed, and salt is always before them and they drink good pure well water. I examined the one that died but could not find any worms in lungs or intestines. L. L.

Elwood, Ipwa, Answer.-I would advise you to feed your ewes the following in their ground feed: Pulverized nux vomica, 1 ounce; chlorate of potash, 4 ounces; fenugreek, 4 ounces; sulfur, 1/2 pound;

salt, 1/2 pound; mix with 15 pounds of oil-meal, and give tablespoonful of this mixture twice daily to every ten ewes.

Bay Horse Has Affected Eye .-- I have a 4-year-old bay horse that went blind when he was altered two years ago. He was very wild and the parties got him very hot. His eyes are very full and seem to pop out. The pupil is the size of a nickel and of a greenish color. Will you please tell me what to do for him? B. F. C. Knob Noster, Mo.

Answer.—Secure from your druggist a bottle of succus cineraria maratima and use a drop in each affected eye daily.

Mare's Udder Affected.-I have a gray mare about 12 years old that lost her colt in July, and before I knew it her bag had spoiled. I lanced it, and injected carbolic solution repeatedly and apparently affected a cure. A month or so ago I noticed that a fistula had developed in the bag. She is fat and has good appetite. She is not with colt. Will you kindly advise me how to cure her? Calhan, Col.

Answer.-I would advise you to open the part of your mare's udder which is discharging through a fistula, then after securing good drainage, inject some good disinfectant into the affected part and keep it perfectly

Thoroughpin and Blood Spavins,-I have a horse 7 years old and weighs 1,500 pounds. He is crippled in three legs, having thoroughpin and blood spavins on both hind legs and a big knee on his front leg. At times he seems to have pains in his stomach but not quite like the colic, and at those times he gets quite lame for about two weeks. The affected legs will also swell and become more painful. His bowels seem hard and constipated and nothing seems to do any good that I have tried.

Osage City, Kans.

Answer.-For your horse that has a thoroughpin and blood spavins would advise you to use the following: Tincture of iodine, 4 ounces; sulfuric ether, 6 ounces; turpentine, 2 ounces; compound soap liniment, 1 pint. Mix and rub on affected parts daily until sore, then withhold for a few days, and begin again.

Mule Colt Out of Condition.-Colt with Splinter Wound.—I have a mule, 8 months old and weaned when 41/2 months old. It began to go down about one month before it was weaned. When taken off the mare it was put on a pasture of blue-grass and clover, and fed grain night and morning. Since winter set in it gets hay, corn, and bright corn fodder. It is sheltered at night and in daytime is on blue-grass pasture. It eats as much as the other mules that are doing well. It is very thin and moves around as though it was sore or stiff in its loins. It stands with its head down, but at times it will run and play a little. It has no lice on it, but I notice some worms pass from it. Its hair looks very well. It is a mare mule and black in color. I have tried no remedies as yet.

I also have a 3-year-old sorrel horse that ran a thorn from a plum-bush in his leg just below his knee, I got the thorn all out but about one-half inch that was turned upward. It caused the leg up to his shoulder to swell very badly. I took the swelling out by bathing in warm water. His knee remained large, broke, and ran, the thorn coming out about one inch above where it went in. Since the thorn came out the knee is still large A. W. B. and running.

Nebo, Kans.

Answer.-I would suggest that you secure from your nearest drug store the following: Two ounces of tincture of nux vomica; 1 ounce tincture of iron chloride; 2 ounces tincture of ginger; 2 ounces tincture of gentian. Mix, place a tablespoonful of this mixture in a quart of water. From this quart give 2 ounces with syringe twice daily as a tonic.

In regard to your animal that has had a splinter run into its leg, I fear that the joint has been opened, and would recommend that you secure

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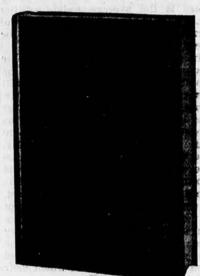
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from your druggist the following Two ounces each of tannic and boric acid and acetanilid. Mix and apply to parts where discharge is seen.

Wire Cut.-I have a valuable mare that has a wire cut under the fetlock. It has a fungus growth and won't heal. Is it proud flesh? It bleeds very easily. What will remove it and heal the wound? G. D. S.

Lind, Wash.

Answer.-You had better cut the fungus growth out of the animal's fetlock, then burn with a hot iron. Repeat the burning in ten days if the wound does not heal and then use any dry healing powder that you can obtain on the market.

Food for Chickens-Shoats Questions.-How much green cut bone should I feed to 100 chickens, and is

dry cut bone as good as green? much oil-meal does it take for 100 pounds of shorts for small shoats and

breed-sows. Please send me press bulletins of "Some Troubles of Swine," and "Lime and Sulfur Dip."

Delphos, Kans.

Answer.—We are sending you press bulletins on "Some Troubles of Swine and "Lime and Sulfur Dip."

Two pounds of green cut bone a day to 100 fowls is a great plenty, but would prefer to skip a day or two and not feed them any of the ground book I think during the winter time the green bone is preferable to the dry.

In regard to oil-meal for shoats, 18 about 5 pounds of oil-meal to pounds of shorts for the shoats, and would feed rather carefully at and

ould give brood-sows two pound re than the shoats.

veeney.—I have a mare that seems ave sweeney although her shoulder ot sunk in very much. The place hout two inches wide and two and half inches long, but she is very e. She has been that way ever e last fall. I used different remebut they did not seem to fill it any. She does not limp in walkbut does in trotting. She is 9 rs old, a bay, and weighs about J. E. F. 0 pounds.

levna, Kans. nswer.—I will suggest that you use blister over the shoulder that has entirely filled out.

borting Cows.—I wish you would me some ideas about my cows. hegin to lose their calves about to two months before time to e. It has been the 3-year-old s so far, being their first calf. I been feeding them sowed sorm and corn fodder with the corn Do you think the sorghum would e anything to do with it? It has a deal of seed on it and was ripe F. E. n cut.

astleton, Kans. nswer.—I think the feeding of your s on sorghum is the trouble with cows aborting. I would recommend you discontinue the feeding of the

are's Neck Sore-Spints.-I have 8-year-old brown mare that at some has had a very sore neck, caused the collar. The sore seems to be led but very tender, and she is hered in starting a load. Is there way to overcome this?

there any way to destroy splints several years' standing where they m to go up into the knee?

F. F. H. Valnut, Kans. nswer.—I would advise you to use te lotion on your animal's neck see if you can not toughen the sufficiently so that there will be soreness when your animal wants tart a load.

think there is no reliable remedy splints.

ule Has Kidney Trouble.—I have a ar-old mule that is out of order. has a good appetite but her kidare out of order. She seems to all right when on pasture in the mer time, but when I put her on feed in the winter she does not do well. When I feed her prairie her water looks like blood. I am ing her sowed Kafir-corn now and water looks all right except it is ttle yellowish at times. She lies n in the stable a great deal of the but seems to feel quite well when ive her or turn her out. Kindly me a remedy. indom, Kans.

aswer.—I would advise you to feed mule considerable bran and and feed. Put a small handful of in leaves in the feed three times for the trouble with her kidneys.

Big Yields of Fruit in Oregon.

Big Yields of Fruit in Oregon.

at remarkable and attractive reknown as the Rogue River Valley
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con \$2.05 for same. From four acres of Spitzenbergs \$1.87 per box—a total of \$3,459.95 from six acres of ground.

Kansas City Grain Market.

on track here at Kansas City:

No. 2 mixed, 2 cars 39%c, 2 cars 39%c; No. 3 mixed, 3 cars 37%c, 16 cars 37%c; No. 3 mixed, 3 cars 37%c, 16 cars 36c. 6 cars 34%c; no grade mixed, 1 car 38%c, 1 car 32c. 4 cars 31c. 2 cars 20%c, 1 car 27c; No. 2 yellow, 1 car 40%c, 2 cars 39%c; No. 3 yellow, 6 cars 38%c, 1 car 38%c, 2 cars 38c; No. 2 white, 3 cars 41c; No. 3 white, 3 cars 40%c, 9 cars 40c; No. 4 white, 3 cars 38c.

OATS—Receipts past forty-eight hours, 30 cars; shipments, 13 cars. Receipts same time last year, 9 cars; shipments, 15 cars, Inspections Saturday, 24 cars, There was a very good demand, but values ruled a little lower. The receipts were liberal and buyers took advantage of the increased offerings to bear down on prices. But at a decline of %c there was very good buying both by home dealers and the order people. The visible supply in the ings to bear down on prices. But at a decline of 4c there was very good buying both by home dealers and the order people. The visible supply in the United States and Canada decreased last week 178,000 bushels. In Chicago, May closed 4c higher than on Saturday, but there was nothing doing in the speculative way. By sample on track here at Kansas City.

No. 2 mixed, 2 cars 41c, 1 car 40 4c; No. 3 mixed, 1 car 40 4c; No. 4 mixed, nominally 42 m42 4c. 5 cars 42; No. 3 white, nominally 42 m42 4c. 5 cars 42; No. 3 white, 1 car 43 4c, 4 cars 41 4c, 2 cars 41 4c, 1 car color 41 4c, 1 car color 40 4c; No. 4 white, 1 car 40 4c, 1 car color 40 4c; No. 4 white, — cars; shipments, 1 car. Inspections Saturday, — cars. There was no market yesterday for the want of offerings. Prices nominal. No. 2, 62 @63c; No. 3, 60 @61c. BARLEY.—No. 3, nominal and 53 @54 4c.

FLOUR.—Slow sale but steady. Quo-

BARLEII.—No. 5, 154 dc. 514 dc. FLOUR.—Slow sale but steady. Quotations: Hard winter patents, \$3.70 @ 3.90; straights, \$3.40 @ 3.60; clears, \$2.85 @ 3.25; soft patents, \$3.85 @ 4.15; straights, \$3.00 @ 3.30; clears, \$3.00 @ 3.10. 3.10.
CORN MEAL.—Steady but slow sale.
Quoted at 310 per owt sacked.

CORN CHOP—Dull but unchanged.
Quoted at 8°C per cwt sacked.
FLAXSEED—Receipts, none; same time last year, none. Unchanged at \$1.07½, upon the basis of pure.
BRAN—Steady. Mixed, 35@86c per cwt., sacked; straight bran, 84@85c; shorts, 90@94c per cwt., sacked.
COTTONSEED MEAL—At all points in Kansas and Missouri, taking Kansas City rates, \$25.50 per ton in carlots.
CASTOR BEANS—In carlots, \$1.25 per bushel.
GROUND OIL CAKE—Carlots, \$27.00; 1,000 pound lots, \$28.00; 1,000-pound lots. \$14.50; 100-pound lots, \$1.50.
SEEDS—Timothy, \$3.00@4.00 per cwt., red clover, \$8.00@12.00 per cwt.; Kafir corn, 70@73c per cwt.; cane, \$1.00@1.04 per 100 lbs.; millet, German, \$1.15@1.20 per cwt.; Candon Corn.
BROOMCORN—Quotations: Choice

cwt.

BROOMCORN—Quotations: Choice green, self-working, \$80.00; good green, self-working, \$75.00; slightly self-working, \$70.00; red tipped, self-working, \$60.00; common self-working, \$50.00.

Kansas City Live Stock Market.

Kansas City Live Stock Market.

Kansas City Stock Yards, April 8, '07.

Small run of cattle after Tuesday last week resulted in gains of from 10 to 25 cents on all kinds, beef steers getting the most of it. Today 12,000 head were received, market weak to 10 lower on beef steers, she stuff and country grades steady to strong. Outside markets are heavily supplied today and the general feeling is bearish, but except on steers the demand is sufficient to make a snappy market. No extra good steers are included today, a few lots around \$6.00, but nothing in the same class as the \$6.50 cattle last week, on different days. Bulk of fed steers sell at \$5.00 to \$5.50. Cows, heiters, and yearlings sell readily at strong prices, among the best sales today being a load of Oklahoma cows, 1,260 pounds, at \$4.46, and some choice yearlings at \$5.35. Cows range from \$8.25 to \$4.50, a few canners at \$2.60 to \$5.00, heifers \$3.50 to \$5.25, bulls \$2.80 to \$4.25, calves quarter higher than a week ago, \$4.00 to \$7.25. A feature last week was a better demand for heavy steers than we have had lately, the support coming from Eastern slaughterers as well as from local packers. Country buyers have not had as many cattle to select from as heretofore, and a few more weighty feeders could have been sold last week than were available. Stockers sell at \$4.00 to \$5.00 mainly, feeders \$4.40 to \$4.90.

With few fluctuations of importance last week the hog market made a net gain of 14 cents for the week, closing at about the best point. Today the run is 9,000 head, and under the influence of lower provisions and an excessive run at Chicago, the market ruled 10 to 15 cents lower most of the session, late sales showing some firmness as compared with the opening. Top today is \$6.52½, bulk of sales \$6.45 to \$6.60 yearlings at \$7.00, and wethers outside at \$8.20, while ewes sold at \$5.75 to \$6.00 yearlings at \$7.00, and wethers outside at \$8.20, while ewes sold at \$5.75 to \$6.00, yearlings at \$7.00, and wethers outside at \$8.00 to \$1.25 under wooled sto

South St. Joseph Live Stock Market.

South St. Joseph Live Stock Market.

South St. Joseph Mo., April 8, 1907.

The fact that supplies of cattle at the five points was 12,000 larger than last Monday and much in excess of the packing demand. caused a weaker tone to pervade the trade. While local buyers were eager for the moderate number on sale they had to follow the downward course of other markets, and bids generally ruled around weak to 10c lower than the close of the week, and there was a fairly active movement on this level. Well-fatted beeves on the choice order weighing around 1,600 sold up to \$6.00. Sales of the popular weights of fair to good quality sold largely at \$5.00 to \$5.40 were generally considered about steady. Fair to good beeves weighing under 1,200 sold mostly within a range of \$4.75 to \$5.00 and common light killers sold down to \$4.25 to \$4.60. The supply of butcher cattle was not large and the market was active and steady to firm, with good fat helfers selling to the best advantage. Bulls were steady and veals were 25@50c lower. The stocker and feeder trade ruled quiet as there was not much outside demand, and local dealers were not anxious inquirers for anything except of attractive quality. Prices as a rule were about steady with the close of last week.

The trade in hogs suffered a severe set back today, as receipts at the five points were 40,000 more than on sale a week ago, and the supply in Chicago today was in excess of the total number

My Book ABOUT CURING DEAFNESS AND EYE DISEASES AT HOME

HAVE published a new book which tells of a new method by which people who are willing to devote fifteen minutes of their time each day for a month or two, following my instructions, can cure themselves of mild forms of Dearness, Head Noises, chronic Catarrh, feiling eyesight of Granulated Lids, Sore Eyes, Films, Wild Hairs, Glaucoma, Weak eyes, and ordinary eye, ear, nose and throat diseases. This book gives the causes and symptoms of each disease and tells you how you can cure it at home, explains my painless method of straightening cross eyes, etc.

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their experience.

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The New Book on the Feeding of Beef Cattle, by Professor Herbert W. Mumford, Professor of Animal Husbandry, Illinois College of Agriculturg, The subject is presented clearly and concisely from the cattle feeder's standpoint. The conclusions of experience and experiment have been combined in such a way as to present the latest thought on all phases of cattle feeding. It is authoritative and accurate. The teachings of this book will materially aid cattle feeders in making cattle feeding profitable. Price \$1.50, postage paid.

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Collections made in all parts of the country. Advigiven on matters by mail. Inheritances collected as extracts investigated parts of the world.

Stray List

Week Ending April 4.

Wilson County—W. H. Couble, Clerk.
PONIES—Taken up by J. E. Newby, in Neodesha
tp., March 28. 1907, two pony geldings; one a brown,
9 years old, 14½ hands high, hiemish on left fore foot
and white streak near root of tall; the other a gray
9 years old, 14½ hands high, no marks or brands.

received at the five points on the corresponding day last week. In consequence Chicago broke sharply and was followed to a certain extent at outside points, the local trade ruling 10@12½ lower than Saturday, prices ranging from \$6.40 to \$6.47½, with bulk at \$6.42½ to \$6.45. Demand was strong at the lower range and the movement was active. Pigs are steady at \$5.00 to \$5.50 for good to choice.

at the lower range and the movement was active. Pigs are steady at \$5.00 to \$5.50 for good to choice.

Lambs sold at 5@10c advance and sheep were generally steady. A long string of Colorado fed lambs sold at \$8.00 to \$8.20. Yearlings, wether, and ewes sold in about the same range as last week.

WARRICK.

EASTERN MONEY TO LOAN

On farm lands in Eastern Kansas. Low rate of interest. Choice of annual or semi-annual interest with privilege of paying all or a part of loan at any time. Money ready. No delay. All loans closed and paid for at our office. Your business re-spectfully solicited

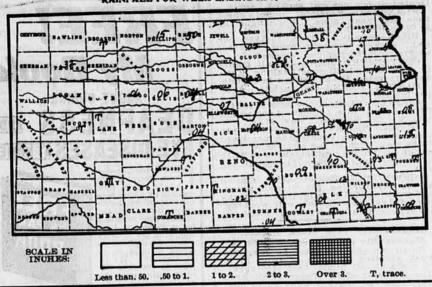
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I have made a life study of the different Pure Breeds of Horses, Cattle and Hogs. Have a wide acquaintance with breeders. Am thoroughly posted as 30 the best methods employed in the management of all kinds of sales. Have booked dates with the best breeders in Kansas. Miscouri and Oktabome, will belp you in arranging for your advertising. Write or wire me before claiming dates.



Weather Bulletin.

Following is the weekly weather bulletin for the Kansas Weather Service for the week ending April 9, 1907, prepared by T. B. Jennings, Station Director:

CLIMATOLOGICAL DATA FOR THE WEEK. Temperature. Precipitation

| Canada of | | _^^ | | | | |
|--|--|--|--|------------------------|--|---------------------------|
| BURNESS AND THE STATE OF | , | | | normal | 100 | Departure from normal. |
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| kott | 84 | 22 | 06 | *** | 0.08 | |
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| | 86 | 94 | 67 | 9031 | 0 | |
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| unningham | 81 | 32 | 54 | ::: | 0.00 | |
| Eldorado | 82 | 36 | 55 | *** | 0.04 | |
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| Hanover | 71 | 24 | 51 | | 0.29 | |
| Hanover | 75 87 78 87 70 81 | 34 | 53 | | 0.20 | ***** |
| Hays | 87 | 20 | . 50 | | 0.06 | |
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| Larned | 87 | 20 | | ••• | 0.50 | ***** |
| Macksville | 81 | 28 | ** | | T | |
| McPherson | 77 | 34 | 52 | | 0.04 | |
| McPherson | 72 | 28 | 51 | | 0.23 | |
| Norwich | 72 82 85 81 73 86 80 | 32 | 52 51 57 56 55 55 | •••• | 0.02 | |
| Phillipsburg | 85 | 28 | 56 | ••• | U.16 | |
| Pratt | 81 | 91 | 59 | *** | 0.67 | |
| Republic | 28 | 34 | | | 0.04 | |
| Russell | 80 | 32 | 54 | *** | 0.04 | ***** |
| Wichita | 81 | 27 | 7.5 | +4 | 0.10 | -0.42 |
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| Atchison | 76 | 30 25 35 31 35 34 30 | 50 48 | *** | 0.46 0.10 0.10 0.09 0.08 0.17 | |
| Baker | 71 | 20 | 20 | *** | 0.10 | |
| Burlington | 85 78 83 80 78 | 21 | 56 55 54 53 | | 0.09 | |
| Cottonwood Falls | 88 | 35 | 55 | | 0.08 | |
| Emporia | 80 | 34 | 54 | | 0.17 | |
| Eskridge | | | | | 0 10 | ***** |
| Eureka | 84 | ** | 56 54 50 | *** | 0.10 | |
| Fall River | 79 | 34 | 54 | *** | T | |
| Fort Scott Frankfort | 75 | 24 | 50 | | 0.38 | |
| Garnett | 82 | 34 | | | 0.32 | |
| Grenola, | 84 | 33 | 56 | ••• | 0.09 | **** |
| Horton | 74 | 27 | 48 | | 0.17 | |
| Trimob our mountain. | 80 | 25 | 53 | 13 | 0.13 | |
| Kansas City | 79 75 82 84 74 85 83 | 32 | 49 | ‡i | 0.33 | |
| Lawrence. | 75 | 32 | 56 48 57 53 49 50 53 | +1 | 0 0.10 0.12 T 0.38 0.32 0.09 0.17 0.42 0.13 0.33 0.23 | |
| Lebo | 83 | 34 | 53 | *** | 0.10 | |
| Madison | 85 | 42 | 53 | *** | U.19 | |
| Manhattan | 84 | 29 | 63 | | Î | |
| Kansas City. Lawrence. Lebo. Madison. Manhattan. Moran. Osage City. | 30 | 38 | 52 | | T | |
| Osage City Oswego Ottawa | 25 | 34 | 68 | | 0 | |
| Ottawa. | 75 | 31 | 53 | | 0.20 | |
| Paola | 77 | 34 | 53 | | 0.08 | |
| Pleasanton | 70 | 30 | 54 | | T. 18 | |
| Sedan | 76 | 33 | 50 | +2 | 0.26 | -0.3 |
| TopekaValley Falls | 75 83 84 84 80 74 75 77 76 81 77 76 88 88 | 33 34 34 34 33 32 27 32 32 32 32 32 32 32 32 32 32 33 34 42 34 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36 | 58 53 54 54 56 50 51 51 | | 0.19 T T 0.20 0.08 0.18 T 0.26 0.10 | |
| Division | 8 | 6 24 | 58 | | 0.15 | |
| State | 8 | 1 18 | 5 54 | | 0.12 | |

GENERAL SUMMARY.

This has been the coolest week since the 18th of March. Light frosts occurred in the extreme southeastern counties on the 1st, and killing frosts in the extreme northwestern counties on the 5th. The minimum temperatures for the week occurred in the eastern half of the State on the 1st and in the western half on the 5th. quality of the goods offered and let slip their opportunity of keeping a good thing at home for the improvement of their own stock, but they did not, and the foreign stockmen grasped the opportunity of getting some choice bargains at unusually low figures. This being the first sale of the kind this far west in the State, Messrs. Hoadley & Sigmund may not have realized expectations in prices, but they have sown the seed at this sale, which will no doubt bring forth the reapers in abundance at their next harvesting sale of Shorthorns.

The buyers at this sale were: Lee Wisdom, Colby; M. B. Hall, Bellaire; Mr. Westhaver, Phillipsburg; O. E. Nichols, Luray; A. Alberg, Lund; G. Loehefner, Oberlin; W. R. Dowling, Norcatur; Wm. Richardson, Canorado; Dave Guilbert, Oberlin; J. T. Shay & C. F. Horn, Selden.

The Finlay Engineering School.

Do you want to take a course in

Do you want to take a course in steam or electrical engineering? If so, you should write the Finlay Engineering School, Boston Building, Kansas City, Mo., in regard to their methods of teaching these branches. This is not a correspondence institution but a school where students are taught the practical side of the business. Write them to-day and mention The Kansas Farmer.

them to-day and mention THE KANS.18 FARMER.

Hoadley & Sigmund's Shorthorn Sale.

The Shorthorn sale of Hoadley & Sigmund, of Selden, Kans., held on the 3d instant, average about \$90 for the females and \$65 for the bulls. The top price, \$150, was for Rosella 2d, bought by Lee Wisdom, Colby, Kans. The sale was well attended, with a number of distant buyers present, who readily recognized the fact that they had dropped in one of the finest herds of Shorthorn cattle in the State and the bidding became quite spirited among them. We are sorry that our local stockmen failed to 'realize the

The maximum temperatures for the week occurred in the extreme northwestern counties on the 1st; in the rest of the western division and generally throughout the middle division on the 2d, and in the eastern division and southeastern counties of the middle division on the 3d. The precipitation for the week was very light, some counties reporting no precipitation, others reporting but a trace. The greatest ameunt for the week, 0.67 inch, occurred at Republic City. High winds were prevalent during the first days of the week.

COUNTY SUMMARIES. EASTERN DIVISION.

COUNTY SUMMARIES.

EASTERN DIVISION.

Allen.—The highest temperature of the week was \$3° on the 3d; the lowest, 35° on the 1st; and the average for the week was 3° above normal. The weather was generally cloudy, there being but two clear days and one day partly cloudy. The rainfall amounted to 0.13 of an inch, nearly all of which fell on the 6th.

Anderson.—The week began and ended rather cool but the middle part was warm, for April. On the morning of the 1st there was a mininum of \$4° with frost and some thin ice. The rains on the first and last days of the week made a total of 0.32 of an inch.

Atchison.—The week began cool and clear with a minimum of 33° and frost on the 1st. The middle part of the week was pleasant and the latter part cooler. Nearly a half an inch of rain fell. Bourbon.—Although the week began cool, the weekly mean temperature was above the normal with a maximum of 79° on the 5d. The first of the week was clear the latter part rather cloudy. A trace of rain on the 3d was all the precipitation that was received.

Brown.—High winds and cool weather prevalled the first of the week, the temperatures going to 25°, the latter part was more pleasant. The rainfall was light, being 0.10 of an inch at Baker and 0.17 of an inch at Horton.

Chase.—The night temperatures generally ranged in the forties, but the day temperatures during the middle of the week were above the seasonal average. The only rain was 0.03 of an inch at 5d. The week, excepting the latter part, was generally clear. Only a trace of precipitation occurred.

Chocke.—A minimum of 31° occurred on the 1st but was followed by warm weather the rest of the week. Cloudiness increased from the beginning of the week. Light rains fell on the 3d, 4th, and 5th.

Coffey.—Two days of the week were clear and two partly cloudy with but 0.10 of an inch of rain. The highest temperature for the week was a tenth of a degree above the average temperature of the same week for the 39 preceding years. The veek began with a minimum temperature of 32° but the

an inch.

Jefferson.—The week began cold with a minimum temperature of 28° on the last day of March. The middle part was warmer with generally clear weather. The rainfall was 0.10 of erally clear weather. The rainfall was 0.10 of an inch. Labette.—Temperatures ranged from 34° on the 1st to 82° on the 3d with mostly partly cloudy

ist to 82° on the 3d with mostly partly cloudy weather.

Linn:—Although the week averaged about the normal temperature, a minimum of 30° occurred on the 1st. Cloudiness increased from the beginning to the end of the week, and light showers fell on three days.

Lyon.—The highest temperature was 80° on the 3d and the lowest 34° on the 1st, with the average temperature slightly above the normal. On the 6th 0.17 of an inch of rain fell.

Marshall.—Temperatures ranged from 24° on March 31st to 75° on April 3d with 0.38 of an inch of rain.

Miaml.—There was much clear weather and the temperature was about normal. The rain was but 0.08 of an inch.

Montgomery.—The week, although cooler than the preceding one, was about normal. The

was about normal.

We call particular attention to the new advertisement of Dodd & Struth-ers, Des Moines, Iowa, in this issue. It is gratifying to note that the firm has

Oage.—Temperature extremes were 74 and and the rainfall a trace.

27 but a maximum of 34 was recorded on the the Conly three light sprinkles of rain occurred. Blawme.—The stute? 24 above the normal. The weather was partly cloudy with light showers. aggregating 0.50 of an lich.

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23° on the 5th. Light showers occurred on the 3d and 6th. High winds blew on the 1st and 6th.

fully recovered from the effects of the recent fire in their factory, and that everything is now in good shape and they are turning out several thousand feet of lightning rod each day, despite the rumors circulated by their competitors to the contrary. This firm well deserves the patronage of all interested in securing reliable rods for the protection of buildings.

"Tools and Their Uses" is the name of a very handsome and useful little booklet published by the American Fork and Hoe Company, of Cleveland, Ohio. It contains many interesting facts about farm and garden tools and is fully illustrated with pictures showing the process of manufacture of various tools and the varieties and uses of all. Perhaps the most aggravating thing that can happen to the user of farm tools is to find that his tools have no temper, will not hold their shape or edge and will rust even with good care. The great business now being done by the American Fork and Hoe Company is based on the superior quality of their



APRIL 1

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CRIPPLED CHILDREN GURE methods. Trained attendants.

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tools, their true temper and the that they cost no more than the inference so often sold by dealers. The tle booklet tells all about the qui of steel used, the process of manuture, and the various kinds needel special work. It is worth having a you can get one free by mention The Kansas Farmer and writing the company a postal card request for

Do Mining Investments Par!

This is a question that is often at and one that can not be answered or no. It all depends on the compathe location of their property, and men who are at the head of it. On their page of this paper is the nouncement of the Double Eagle of Mining Company of Kansas City.



F. C. Vincent, Fiscal Agent.

personnel of the men who are best trakes it look like a good investing for any one who is looking for a person to make his money earn good dends. The mine which they or not a prospect but an actual mine machinery installed and thousand dollars worth of good ore in stream of these are the kind of companies to vest in instead of those who are stock on undeveloped property are called prospects. Their properticated at Bridal Vell near reliable colleges are the kind of the property of the colleges of the property are called prospects. Their properticated at Bridal Vell near reliable control of the company, so the property of the colleges of the company, so the property of the proper pany.

Is Farm Help Worth the Cost Top

The farm labor question is interested and certain aspects solved in an attractive and expain ly gotten up 48-page, illustrated published by the American Fork Hoe Company, Cleveland, urge every reader to procure sobefore the present limited edition of the present limited exhausted. Write for it at once, a tioning this paper. tioning this paper.

Notice, Tax-Payers Mission Tonk
There will be a meeting of the N
of directors of the Topeka-Souln
ern Railway Company in the Cos
cial Club rooms at Topeka, Kai
Thursday, April 11, 1907, at he in
At this meeting there will rectors elected from Mission for
All tax-payers of that township an
quested to be pressnt.
T. J. Anderson,
Secretary: