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DETROIT, MICH., SATURDAY, AUGUST 3, 1912.

Controlling Weed Growth on The Farm.

ESTROY weeds. Dig them up by the roots, slash them with a spud or hoe, cut them with a scythe or mowing machine, spray them with sulphate of iron, pasture them with sheep and goats, choke them out with grass and heavy growing forage crops, change the crops on fields that are infested, cultivate frequently during the early part of the season. Every farmer should wage a vigorous and relentless warfare on on the part of adjoining, land owners of it. The screenings will make good should make weed killing a common ob- poultry food or may be ground with in the soil for years. Several years ago of the worst of these pests. Careful ject. Individual effort may succeed in corn and fed to other stock. Fanning the North Dakota Experiment Station work one season and the failure to conject. Individual effort may succeed in keeping down weed growth on a small area, but a man is up against a difficult proposition when his neighbors persist in producing seed faster than he can destroy the weeds. No complete victory can be gained over the most noxious of these expensive and injurious nuisances until farmers band together and make a concerted and persistent effort to clean up their fields, fence corners and roadsides and employ methods which are both preventative and destructive.

There is no accurate way of getting at the loss which weeds cause to the country annually, but it is safe to say that amounts to one hundred million dolit lars, perhaps double that amount. Not alone do weeds make it much more exgrow crops, but they make a pensive heavy draft upon the moisture and fertility of the soil, besides they reduce considerably the market value of the products.

For example, a report from the Minnesota grain inspection department shows the average dockage per bushel on wheat for two years to be 19 ounces. This dockage is very largely due to weeds. Minnesota produces annually about 200,-000,000 bushels of small grain. Had the land been free of weeds the same amount of plant food, moisture and labor would have produced over three million bushels of wheat or the equivalent in other grains. This makes an actual loss due to weeds of about two and one-half mil-

lion dollars, or an annual rental of 30 cents per acre on every acre on which small grain is grown. Added to this great loss we must include cost of fighting weeds, loss of fertility and moisture, strain on machinery, extra cost ---of twine to tie up the weeds, freight charges for shipping the weed seeds, etc.

Weeds are distributed in curious ways. Many a farmer has had his land stocked with weeds because the seeds have been carried by the wind over frozen snow and ice with which the country is with covered in the winter. Some are carried by the wind, as for example, thistle and milkweed. Others have burrs or needles which attach themselves to anything with which they come into contact. These find their way from field to field, into the barn and feed lot and finally into the manure pile and are again distributed over the farm. Others get into clover, grass or seed grain, and for some of these the farmer pays the price of

valuable seed. Cheap clover and grass mills, as they are made today, will take Mustard and some of the other weed seed and seed grain from other localities the cockle out of wheat, kale out of seeds grew after being buried 56 months. are prolific sources of trouble to many oats, buckhorn out of clover, in fact. These facts ought not to discourage the farmers. Grain should be cleaned, not they are arranged so as to handle all farmer. One season of systematic cultionly the seed, but the grain to be fed kinds of seed and grain. It will pay a vation will bring most of the seeds into should be cleaned. It prevents the foul farmer to place superior samples of weed seed from going back to the field grain on the market, sow cleaned seed What few are left to grow later may be noxious and unsightly enemies of with the manure, where it will cost a and prevent weeds from getting on his removed cheaply by subsequent cultivaagriculture. A co-operative united effort vast amount of labor and money to get rid farm, either through seed or manure.

Some of the noxious weed seeds live vigilance after he has cleaned up a field



Harvesting Hay and Wheat in the Upper Peninsula of Michigan. These scenes were taken in Chippewa county; the hay field, on the farm of Rolla Winn, cut three tons per acre. The wheat harvesting scene was taken on the farm of Joseph N. Welsh in 1910. The yield was 51 bushels per acre. was taken



conducted an experiment to determine the length of time weed seeds retained their vitality in the soil. Wild oats grew after being buried in the soil 20 months. condition to germinate and be destroyed. tion. One should keep up the work with tinue the warfare the next will avail little in the work of cleaning up the field. After the most noxious annual weeds have been brought under control a system of rotation of crops which provides for one or more years of cultivation and one or more grass crops on each field in six or seven years, will eventually clean up a field of most weeds, increase the net income per acre and tend to add to the productivity of the soil. Whether the weed is an annual, a biennial or a perennial, if the farmer is to make any headway, it is necessary that he study them and gain a knowledge of their habits of growth as well as of their strong points and their weak points and plan his methods of subduing them accordingly. Annuals are by far the most common and easily controlled, consequently it is, perhaps,

\$1.00 A YEAR. \$2.75 5 YEARS.

and perennials in another article. Farm manure contains many weed seeds which will germinate and grow as soon as the conditions are favorable. For this reason it is my judgment that it is better to apply the farm manure to the grass or clover crops as a topdressing. In this way the weed seeds being on the surface germinate quickly, but on account of being shaded and crowded out by the grass and clover plants, are unable to secure any foothold. A small weed finds it very difficult to get a start in the thick growth

better that I should discuss the biennials

of grass or clover. may be wrong in my deductions of this phase of controlling weed growth, but it has been much easier to control the weed growth and handle cultivated crops on my farms since we have been applying the manure to the grass and clover fields instead of on the sod ground which was to be plowed immediately and planted with potatoes or corn. The experience of other farmers along these lines might prove of benefit in considering this phase of handling farm manures and controlling weed growth on our farms.

One of the most effectual means of controlling weed growth. more especially, as it concerns the annuals is to plow the field early in the spring harrow it thoroughly and frequently as many times as may be necessary before planting time. Fortunately this labor is not in the least wasted, because it goes a long way toward preparing ground for planting. The farmer who

plows his weed opportunity the will save a great deal of subsequent work of cultivation. He has warmed up the He has given them moisture and heat, and they naturally grow. By the rates the city man as having interests inces. That was the economic thought wet and the weather was not drying so frequent harrowing he kills them right diverse from that of the farmer in the of their day, and how very similar the that a white mold formed on the bottom at the start. The stirring of the soil invites the seed to germinate and then they can be destroyed by the thousands by harrowing again. A weed germinated, sprouted and then buried or uprooted is done for. By keepng up the good work with the weeder or smoothing harrow until it is time to start the two-horse cultivators going in the corn or potato field he has destroyed so many weeds that he will have but little difficulty in keeping his crops free from weeds during the rest of their growng perod. Early harrowng and cultvating counts mightily in controlling weed growth on the There is no system of soil manfarm. agement that will clean up a field of and connect up the industrial forces of weeds in one season, because many of them will not grow the first year. Frequent cultivation hastens their germination and destroys these that grow during the early part of the season. It will not destroy many of the weeds that grow later.

Another way of disposing of these annual weeds is smothering them out with grain, grass, and forage crops. A thick stand of grass, grain or forage will smother out most of the weeds that germinate after the field has been seeded, and associations of farmers and to se-A thin stand of grain, thin spots in a meadow of low, wet places where crops fail to make a good stand simply invite their adaptation to soil and the grade of weeds. land and shut out the sunlight the weeds are sure to come in. Whoever saw annuals survive in a field that had a good stand of millet, buckwheat or sorghum? could do much to establish a higher Tile drainage which would remove sur- standard of farming and at cost not to water and enable the crops to face make an even stand over the whole of the field would be of great value in qualifications should be a knowledge of simplifying the problem of weed control on hundreds of farms. Not only would weed control be simplified but there would be an increase in the average pit on occasions, when demanded. yield of every crop grown on the field. The trouble on most farms is that these pects to take up the subject of good werds are not destroyed early in the roads. They will lend a hand to advance They are allowed to grow, the season. farmer figuring that the cultivation of the crop will destroy them later. Unfortunately, wet seasons and other factors over which he has no absolute control frequently upset his plans, and, as farmers say, "the weeds take the crop."

think that they know about all there is to know about farming who say they would not have a hoe in the corn or potato field. Well, I am not one of those fogies who seem to think there is a peculiar virtue in a lot of soil massed about a plant with a hoe. When it can be done with a horse it is a much easier task and the more economical way to relief to the individual sufferer, and also do it. Nevertheless, I am very sure that there are times and fields where no other tool is better than, the good old hoe, and the workingman who is confined to his that its use at the proper time in such cases, even if more expensive, will yield returns "some fifty, some a hundred fold." It is easy to say, "Use a weeder or smoothing harrow, early and often," and such advice s good, but there are cities for work oftentimes because of many tmes when, on account of wet weather or inability to spare the time, the ground gets hard, so that one of these tools is of about as much value as would be a briar brush dragged over a stone pavement. Weeds get a start in the row or hill, where no horse tool that I ever saw will get them without taking out the plants too. By all means use a hoe rather than allow a few weeds about the hills to seed the field for another year. When some of the bad annual weeds, as wild mustard, are but thinly scattered through the field they may be removed quite cheaply by hand pulling. the automobile, telephone service and This method is not in favor with farmers rural mail delivery of the daily paper, but it is, however, often more economical has vastly extended his possible patron-to remove weeds entirely by hand pulling age. The farmers' employes are getting after some other method of eradication has about cleaned up the field. A few remaining plants allowed to go to seed will give the weeds a good start for another year, and much of the work that has been directed toward destroying them will be lost labor. In such cases hand pulling is certainly practical. W. MILTON KELLY. New York.

AN IMPROVEMENT ASSOCIATION.

There has been organized in Shiawas-see county at Owosso, "The Improvement Association." This society is broader than the usual "Chamber of Commerce,"

ground early and gives "Board of Trade," or "Business Men's quainted with agriculture to comprehend to me is, however, that stock eat this seed near the surface an Association," as such bodies are locally is that for years the cities have lived on hay as well as they do. Of course, it to germinate and keeps known, and is to embrace the farmers of the unearned increment or investment of was cut when it ought to have been, harrows going until planting time the county, or at least those who have stored up soil fertility which now has just at the right stage of maturity, and business relations in the principal city become partially exhausted. When Rom- it was raked up the same day it was cut,

general upbuilding of the country, particularly in the middle west, is not well living by shipping in duty free Canadian the cocks where they didn't dry off as founded. In the manufacturing towns of grain or free raw material food stuffs quickly as they ought to, yet I put it all the east, where, for example, shoes and the weaving industry are predominant, there is in a general way no intercommunity interests between town and country. In the middle west, where cities and towns are dependent in a large measure on agricultural products, such a move as this Improvement Association is destined to be effective of great good, in both an economic and moral sense. Among the things proposed for the general good is to employ a regular secretary, who will be the laboring man of the association, the country and city. A rest-room for people coming into the city for the day, provided with lavatory and comfortable seats and tables; s projected.

Under the provisions of the recent appropriation for agricultural experts by congress, to be provided under certain co-operative conditions of the country, it is proposed to secure such aid for Shiawassee county. The secretary of the Improvement Association expects to con-fer with the various individual farmers cure immediate action, if possible. In the matter of commercial fertilizers, i. e., If there is no crop to occupy the goods, an agricultural director could save the farmers of any county many thousands of dollars annually. Any qualified expert of wide sympathy and training exceed 50 cents a year to the individual farmer. Among some of the essential soils and a working acquaintance m chemistry. Also a man of sufficient address to occupy the country church pul-

> The Improvement Association also exparcels post. These questions are particularly the ones that more closely relate to farmers, while securing new industries for the cities, parks, etc., will constitute the additional work of this body.

Another subject of both city and coun-I know a few agricultural leaders who try interest is discussed, that of a county hospital. Perhaps none that the attendant physician knows better the inadequacy of medical attendance under unfavorable home surroundings. The workingmen's compensation law is intended to have the industries provide for accidents occurring in those ocupations. The hospital at hand would be a great would extend farther to the many cases of sickness not of direct accident. To bed in an unsanitary boarding house, when better and cheaper attendance at a county hospital could be had the chances for recovery are vastly increased. Intelligent mechanics prefer large greater assurance of skilled medical care at a hospital.

At a banquet given by the Improvement Association at its inception there was the most tolerant and liberal feeling expressed by business men towards all who work in this world, which includes about everybody. If Cain had come into the meeting and said something about not being his brother's keeper, he would have found an unsympathetic audience. The city tradesman is not slow to see that for many miles outside the corporation boundaries, good roads, the trolley, good wages and their patronage is strictly cash, so he is, in the language of the insurance man, really a better "prospect" for the tradesman than shop men. One of the economic features of uniting the interests of city and country are those factories whose productions originate on the soil, like sugar beet growing or where, like the automobile industry, the sales of machines and good roads are largely country affairs. The sugar manufacturers are alert for soil improvement and good roads. The factory manager is in most cases a chemist and knows the difficult things for most men not ac- it quite severely. The surprising thing days in advance.

of the county. The somewhat local view that sepa-rates the city man as having interests inces. That was the economic thought wet and the weather was not drying so proposition of reducing the high cost of cf the cocks, sometimes on the sides of from Argentina.

> vation of soil and the upbuilding of city pasture this spring so, of course, we are and country, mutually caring for the in- feeding them hay. Before we hauled dustrially injured and sick of both city this clover hay we were feeding them a and country, appeals to one's idea of new crop of alfalfa and orchard grass righteousness, rather than the old Roman which were mixed together. This was plan of bringing in cheap corn from out- cut and cocked up and cured in the cock side or its modern counterpart of eco- and never got a particle of rain on it. nomic thought of soil depletion at home I hardly see how you could get a better in order to make some other industry succeed.

Shiawassee Co. JAS. N. MCBRIDE.

LILLIE FARMSTEAD NOTES.

The subject of midsummer irrigation is not of very much interest in this particular locality at the present time. Saturday morning, July 20, the weather department at Grand Rapids gave out the information that Saturday would be fair and warmer. Early in the morning, the sky was overcast with heavy clouds, we began to pull peas in one field for the canning factory. About eight o'clock it began to sprinkle a little, not enough to stop work. I thought probably it would go away and be a fair day, but it didn't. It rained a little bit harder until by 11 rid of? Ciclock we had to quit work, and from Ciclock we had to quit work, and from Subserved. Subse 'clock we had to quit work, and from that time on it gradually increased until become a weed on our better soils is along towards night there came a steady well founded. A Mecosta county farmer along towards night there came a steady downpour which lasted until nine or 10 o'c'ock at night; in fact, it was raining vetch was sown some 20 years ago and hard when I went to bed; one of the allowed to seed that he has been unable mest severe rains in my remembrance, to eradicate it with ordinary cultural Sunday morning great ponds of water methods, although a four-year rotation stood in nearly every field, wherever there was a depression. Many of the is unnecessary to permit it to seed where fields are gullied because the water got one desires to use it as a soil improver. so high in the low places, broke over the If sown with rye in August and plowed ridges and washed out. The tile drains under before the seeds mature to the are working as heavily as they would in stage where they will grow, that will the spring or late in the fall. Much dam- be the end of the vetch plants as the age has been done. The oat crop, which plant is an annual and reproduces only is just beginning to turn a little bit in from the seed and not from running root many places, is laid flat. It never can stalks, as is the case with many of our be cut clean with a reaper, but then, we noxious weeds. The plan outlined for ought not to complain, because the news putting this land in good condition to comes that in many localities in the Uni- seed down to alfalfa would seem to the ted States they had cloudbursts, and not writer to be a very good one, but after only crops were destroyed but human plowing the vetch the land should be lives as well, and nothing of that sort thoroughly packed down by frequent tiltook place here. But certain it is that lage before the seed is sown in order to we have enough moisture, and it doesn't provide a good firm seed bed. As soon seem as if the land could get so dried out that we couldn't plow oat stubble ure conditions are right sow the seed, so this year in time for wheat.

There will be an abundance of grassy and weedy corn fields and all other hoed crops this year, and we are much in the same position that the farmers are down in Cuba when the wet season comes. All they can do is simply to sit on the fence and see the weeds grow as well as the crops, and that's all we can do at the present time. The land is entirely too wet to cultivate, but the weeds do grow wonderfully.

It is a wonderful time for pastures and for second growth of meadows. The second growth of clover meadow is simply wonderful. If the weather fairs off and suitable weather comes so that the flowers can be fertilized and filled in this section there will be the best crop of clover seed we ever had, but, of course, one ought not to build any hopes on this finicky crop at the present time because conditions may be so that it will not properly fill. I have seen a heavy growth of second clover that did not contain a sufficient amount of seed to pay for hull-

ing. Part of the wheat has been cut, but none of it hauled in as yet. That that was cut was out, of course, in this heavy United States during 1911 was approxithe on an In one field near rain. acre some of the shocks are floating in a seed to sow a million acres or more. In pond of water, but the wind was not addition to this a large quantity of seed heavy and not a great many of the was imported from Europe. shocks were blown down. I think that if now recognized as the big money crop to it only stays fair by setting out part of the farmer. We still have a limited supit that the crop can be saved. So far as ply of high-grade dry land seed grown we were concerned, we were so slow that in Dakota, Nebraska and Montana and we didn't get any of the harvesting done. shall be pleased to submit sample and We are just getting the binder ready prices upon request. Alfred J. Brown now and as soon as the ground gets dry Seed Co., Grand Rapids, Mich. enough so that we can run it we will try and cut our wheat.

Haying is practically done in this coun- to publish notice of all farmers' picnics ty. the basic principles of farming. One of hauled. Much of it was injured, some of vise us with place and date at least ten

in the barn. We have seven calves that The Shiawassee county plan of conser- I thought were too young to turn out to quality of hay than that, but strange to say, this clover hay that got wet seems to be relished just as well by these young calves as the other, and the same with the horses, they eat it just as well. COLON C. LILLIE.

FARM NOTES.

Winter Vetch as a Crop for Green Forage.

The impression that wetch is likely to writes that on a ten-acre field where was practiced on this field. However, it as this has been accomplished and moistit will get as good a start as possible before winter.

Harvesting Timothy for Seed.

I have 10 acres of timothy that I don't need for hay so think of cutting it for seed. Which is the best to cut it with, the binder or mower, and what kind of a machine is it threshed with for best re-sults? Kent Co. O. L. G.

The grain binder is the most satisfactory implement for cutting timothy seed. The cutting should be done at just the right stage to prevent the shelling of the seed. When the seed turns brown is the proper time to cut and the bundles should not be allowed to stand in the shock too long for the same reason. The seed is threshed with an ordinary grain separator, but the wind on the sieve must be carefully regulated so as to not blow the comparatively small light seeds over. The threshing of timothy for seed should be profitable under present conditions since the seed brings an unprecedented high price on the market.

ALFALFA.

The amount of seed harvested in the mately twenty million pounds. Alfalfa 15

The Michigan Farmer will be pleased I finally have all of my clover hav and gatherings. If you know of one ad-

LIVE STOCK CAL ROUGHAGE FOR FAT-

TENING CATTLE.

the results of the season's experiments at the Indiana Experiment Station were given in detail. These results proved conclusively that the cattle feeder cannot afford to eliminate silage from the ration for fattening cattle. The results of similar trials at the Iowa station, as compiled by Profs. J. M. Evvard and W. J. Kennedy, are equally convincing. Regarding the results of the trial, these authorities say:

Silage must be put into the feeding program of every beef producer who fact that corn increased to 57 cents and wants to fit steers for the market eco- 65 cents, from 50, 51 and 55 cents during nomically and efficiently. The animal husbandry section of the Iowa Experiment Station proved that in part a year ago in a thorough feeding test; it proved of this big handicap it won out by a narit fully this year in a second test. The row margin. animals fed on silage made cheaper gains, they lost less in shrinkage, and they returned greater profits than other animals in the test fed on clover hay as roughage. The silage-fed steers put on gains at a net cost that was \$2.01 per 100 lbs. less than the clover hay-fed steers, and the best lot of silage-fed steers made a profit of \$23.46 per animal as against \$17.27 per animal, for those fed with clover hay.

Fifty steers were fed in this test. They were not fancy steers when bought, but average animals from the Nebraska They were bought November range. last and fed 150 days, from November 23 to April 21, 1912. They cost in Omaha \$4.50 and in the station feed lots \$4.65. They sold well, bringing from \$8.10 to \$8.20. These steers were divided into in that cattle in lot 3 on shelled corn, five lots of 10 animals each and put on cottonseed meal and silage made an avseparate rations as follows:

clover hay. Lot 2-Shelled corn, cottonseed meal,

clover hay, corn silage. Lot 2-Shelled corn, cottonseed meal, is a superior roughage. corn silage.

feed of grain in 40 days). Lot 14-Shelled corn, cottonseed meal,

corn silage. Lot 5-Shelled corn, cottonseed meal,

corn silage. Lot 4 and lot 5 were handled the same the first 90 days, silage fed heavily, and cattle which received both silage and shelled corn increased to full feed in the First month, 6.44 90 days as follows: lbs.; second, 10.48 lbs.; third, 14.97 lbs. Beginning the ninety-first day, daily. lot 4 was allowed corn and silage ac-cording to appetite, while lot 5 was held back on silage and shoved hard on corn, the object being to make the ration concentrated at the end of the fattening period. Cottonseed meal was allowed in equal amounts of practically 234 lbs. daily to lots 2 and 5. Lot 1, because of clover, which contains protein, was fed somewhat less for best results.

All feeds were charged at actual market prices as follows: Shelled corn, first month. 50 cents; second, 51 cents; third, 55 cents; fourth, 57 cents, and fifth, 65 cents. Cottonseed meal, \$28 a ton; clover hay, \$15 a ton; corn silage, \$3.20 a ton.

tual value of corn in field, eight cents of the number of silos in the corn be't below market, at time of siloing. Cost states is unmistakable. of filling silo, storage of silage, and de- starchy food, however, and when fed preciation on equipment are included. must be supplemented with a protein This allows the farmer a field profit on feed, such as cold pressed cottonseed the corn. The actual production cost on cake, cottonseed meal, or oil meal. At this silage would not exceed \$2.40 a ton, present prices we would recommend All roughage was fed twice according either the cold pressed cake or the cot-to the steer's appetite, excepting in lot tonseed meal. Another mistake which is 5 the last two months, where it was limited.

THE MICHIGAN FARMER. Hogs following cattle were valued at is a complete feed within itself and use

last two. The record of feed, gains, costs and

at bottom of this page. It will be remembered that last year the Iowa station called attention to the heavily in the early part of the feeding period, decreasing as the animal became finished and quite fat, for the evident reason that the large amount of silage was not desirable in producing rapid and economical gains at the close of the feeding period. It is somewhat interesting to note that lot 5 handled in this manner, heavy silage and light corn at the beat the finish, returned the largest profit per head, or \$23.46. This in spite of the 65 cents, from 50, 51 and 55 cents during COMBINED GRANARY AND HOG PEN. the first three months. In other words,

everything was against this lot because of the high price of corn, but in spite In making a change of this sort, as the

animal becomes fattened, it is advisable to do it gradually, pushing heavily on the corn and coming back gradually upon the silage. The object is to concentrate the ration at the end of the fattening period.

Clover is an exceptionally good cattle roughage, but at present prices its use is quite prohibitive. Had the clover in this experiment been figured at \$10 per ton instead of \$15, the net profits would have increased practically \$3.50, or actually \$3.38, or \$20.65. Even at this advantage it is readily seen that the silage at \$3.20 per ton is a more valuable feed than clover hay at \$10.

The value of silage for a short feeding period is again abundantly demonstrated erage gain the first three months of \$3.95, Lot 1-Shelled corn, cottonseed meal, \$8.67 and \$15.17 per cwt. or an average cost of practically 7½ cents. For a short feed the experience of the Animal Husbandry Department has been that sliage

It is gratifying to feeders of silage to (The above lots were all put on full know that the Iowa Station results again show that silage-fed cattle are not heavy shrinkers. This year they all beat those having clover, as last year the least shrinkage occurred on those cattle fed both silage and clover hay.

> The least shrinkage occurred on those clover for roughness, being very light at only 21 pounds. This is in accord with the experience of last year. That those which had clover should have a heavy shrink is somewhat surprising, but the facts speak for themselves.

Silage is highly relished by both cattle and sheep, and is fed with profit to these classes of animals. The feeder with the silo must not get the impression, however, that silage is a cure for all ills, but that it has its shortcomings as well as its longcomings. The dairyman has long since concluded that he cannot saisfactorily run a dairy herd without the silo. which furnishes, as nearly as human ingenuity has been able to figure out. pasture conditions in the winter time. The steer feeder is coming to feel that the silo is a valuable adjunct to his business The silage cost is based upon the ac- in evidence of which the rapid increase Silage is a usually made in addition to feeding without supplement, is to assume that silage

| | eers in Ea | ch Lot. | |
|---------|---|---|---|
| Lot 2. | Lot 3. | Lot 4. | Lot 5. |
| 943. | 919. | | 922.8 |
| | | | 1257. |
| | | | 2.228 |
| | 2.201 | 2.109 | 4.448 |
| | | | |
| | | | 14.64 |
| | 3.08 | 3.08 | 3.08 |
| | | | |
| 22.35 | 27.10 | 30.81 | 28.62 |
| | | | |
| \$11.77 | \$10.65 | \$10.74 | \$10.72 |
| , | 420100 | <i>440.11</i> | 410.12 |
| \$ 9.69 | 0 1 0 2 | 0 0 9 | \$ 8.81 |
| φ 0.02 | φ 5.10 | φ 3.00 | \$ 0.51 |
| | | | |
| 0 0 00 | A 0.00 | | |
| | | | \$ 6.27 |
| \$ 6.01 | \$ 5.86 | \$ 5.80 | \$ 5.75 |
| | | | |
| | | | |
| \$ 7.72 | \$ 7.61 | \$ 7.60 | \$ 7.62 |
| \$22.22 | | | \$23.46 |
| | | | |
| | | | 29.0 |
| 1.017 | 2.482 | 2.568 | 2.307 |
| | Lot 2. 943. 1299. 2.373 Pounds. 16.95 3.68 3.90 22.35 \$11.77 \$ 9.62 \$ 6.60 \$ 6.01 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

*Chicago values are Lot 1, \$8.20; Lot 2, \$8.15; Lot, 4 and 5, \$8.10.

\$6.10 the first three months and \$7.50 the it as a sole feed in thinking that it will produce a marketable finish. It is necessary in finishing animals to add considprofits follow in lots for the entire feed- erable concentrate, especially corn, in CORN SILAGE THE MOST ECONOMI- ing period, and will be found in the table that it is the cheapest one we have, especially toward the finish of the feeding period. The truth of the matter is that in finishing steers and heifers, or other In the Michigan Farmer for May 11, indicated possibility of feeding silage cattle for the block, it is necessary and quite imperative that a concetrate grain be fed in considerable amounts throughout the feeding period. Cattle which are being stalked or roughed through the winter can get along nicely on corn silage for grass and subsequent freen feed. but for the fattening animal the grain must be added.

The most eloquent friends the silo has ginning, with light silage and heavy corn are those men who have fed silage. Certainly no greater recommendation can be offered for any feed than this.

We thinking about are building nary and hog pen combined. Our t is to build the building 20x24 ft., 16 high to the eaves, on a north slope, lower six or eight feet of cement and granary idea is high and the upper part out of lumber, building steps up to second story what it lacks, say three or four feet, with cement floor. Now what we want to know is, will the hogs do well on cement? Sec-ond, keeping the hogs below the granond, keeping the hogs below the gran-ary would the odor affect or injure the grain? Third, would it make it too moist for the grain? We thought by building the two buildings in under one roof would make it cheaper. Any suggestions would be highly appreciated. Manistee Co. C. C. P.

It would not, in the writer's opinion, advisable to build a combination be building of this kind since there would be more or less condensation of moisture from the hog pen which would tend to make the granary above it damp, unless the floors were made moisture-proof and the hog pen well ventilated. So far as the cement floor in the hog pen is concerned, the concrete is the most suitable material to use. It should be made a little sloping for drainage and a false floor of lumber should be used for a sleeping nest for the hogs. Some use the elevated sleeping platforms and like them, but the better way, in the writer's opinion, is to use a small false floor which can be removed or changed at will.

LIVE STOCK NOTES.

LIVE STOCK NOTES. Profits on the difference between 4,000 and 10,000 lambs is what silos made for Anthony Gardner, of Kansas, during the last winter season. He is one of the largest sheep feeders in Kansas, and he says silos are indispenable. They not only increase his profits per lamb, but also enable him to more than double his operations. He owns two enormous con-crete silos, with a combined capacity of 1,300 tons. The farm is located in the \$100 per acre land region, and the land is too high-priced for pasturage or range purposes, every acre being required to produce liberally. A live stock journal gives the following particulars: "Last summer was a hot one. Corn over a large section of the southwest was ruin-fered along with other sections. Had Mr. Gardner been without silos he could not have cut and saved his corn before the hot winds damaged it; nor could he have made the best use of the Kaffr he grew last season. His silos are in their third year. They were filled with corn in the fall of 1910 and 7,500 lambs were fattened with ensilage and grain. In 1911 he cut all of the corn on his half In the fail of 1910 and 7,500 lambs were fattened with ensilage and grain. In 1911 he cut all of the corn on his half section of land for silage and corn was the principal crop. He topped off one of the silos with 100 tons of Kafir, in order to try it." Wm. Rea, senior member of the firm of Rea Bros, the widely known and

Win. Rea, senior member of the firm of Rea Bros., the widely known and ex-tensive Montana sheep and wool opera-tors, says: "The herds and flocks in Montana are small ones, mere shadows of their former grandeur. Washington, Oregon and Wyoming ranges are badly in need of re-stocking, and these states are drawing from Montana's compara-tively small supply for that purpose. Mixed young cattle have been sold of late on Montana's ranges to Washington and Oregon stockmen up to \$40@45 per head, and Wyoming, with a smaller sup-ply of bovine stock on hand than she con-tained at the opening of last winter, the new lamb crop included, is clamoring for breeding stock. Montana yearling breed-

tained at the opening of last winter, the new lamb crop included, is clamoring for breeding stock. Montana yearling breed-ing ewes are being purchased to stock Wyoming ranges, costing \$4 per head on the ranges. Canada is also coming to us for mutton sheep, requiring a great num-ber of them, and one purchase ran up to 7,000 head. At the same time the coast demand is enlarging. Charles Brown, of Clay county, Illinois, who has been selling veal calves of from five to six weeks' old in the Chicago market for \$8.50@9 per 100 lbs, reports an acute shortage of beef cattle in the making and believes that \$10 cattle are by no means improbable in the near fu-ture. He expresses much wonder as to where corn belt stockmen are going to obtain feeder cattle during the next few years.

years. Grass is good on the sheep ranges, and Grass is good on the sneep ranges, and sheepmen generally show a determination to finish off their lambs carefully, so that the supply of range feeding lambs may be expected to be comparatively small.



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bred for utility as well as show quality. Stable includes several international winners. Three 2.year-old stallion colts of quality for sale. Come, or write B. F. ANDERSON, R. No. 3, Adrian, Mich. Mention the Michigan Farmer when writing advertisers

CATTLE.

AUG. 3, 1912.



CONDUCTED BY W. C. FAIR, V. S. Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same aliments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else. When reply by mall is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

ETERINARY

Ploody Milk.—I have a good three-year old heifer that occasionally gives bloody Milk. I am vealing her calf and let calf suck her twice a day. After the calf satisfies itself I strip cow carefully; before giving bloody milk her bag was caked badly, but we succeeded in soften-ing udder. W. H. A., Merle Beach, Mich.—Put ¼ lb. sugar of lead in 1 pt. tincture of arnica in a gallon of water and apply to affected quarter three times a day. Are you sure that the calf does not injure udder, or does the bag not come in contact with some hard sub-stance that bruises it? Septie Navel Infection.—I have a colt

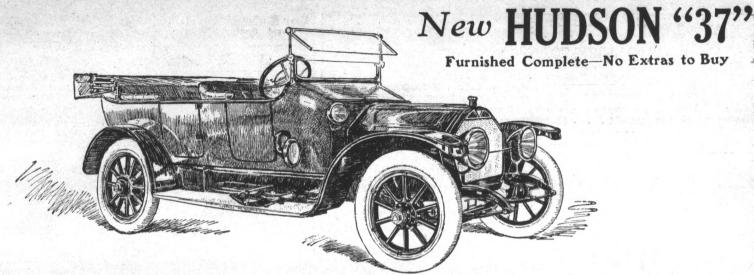
tor anjure duder, or these the hard sub-stance that bruises it? Septic Navel Infection.—I have a colt that was foaled April 21; was all right, spry and playful until he was a week old, then he went lame in fore ankle. The swelling extended up to body; later he went wrong in opposite fore leg. I reduced swelling by using arnica and witch hazel. 'This colt has poor use of his limbs, can get up alone, but gets about with difficulty. I placed him in sling, and he is thriving, but walks bad-ly. The only dubious part of his sick-ness is his inability tc get along. C. B., Otsego, Mich.—Give colt 10 grs. potas-sium iodide and 10 drops fluid extract of nux vomica at a dose in a little water as a drench three times daily. It is pos-sible that you will obtain fully as good results by giving one-half the dose I have prescribed, and give it six times a day. Feed the mare well and soon as colt can walk about in sun let him do so. Apply alcohol to sore parts and weak quarters. Diseased Tooth.—For the past three weeks my horse has had a very offen-sive smelling discharge from one nostril. During the past few days he has grown worse. F. W. P., Brant, Mich.—The root of a molar tooth is perhaps diseased and the discharge from it empties into nasal passage. The only remedy is to extract the tooth, then he will get well. Acute Indigestion—Rupture of Dia-phragm or Stomach.—Have lost three

The unset of the only remedy is to extract the tooth, then he will get well. Acute Indigestion—Rupture of Dia-phragm or Stomach.—Have lost three horses 'ately' and will give you the symp-toms of their sickness. Two of them were taken as with spasmodic colic, roll and tumble and appear to be most easy when on back, remaining in this posi-tion for several minutes. After being sick five or six hours they perspire free-ly, bloat more or less, tremble violently, and death takes place in two or three hours. Our local Vet. has no doubt done all he can to save them. My horses are not the only ones in this neighborhood that have died. If a sick one lives more than eight or nine hours, he remains helpless until he dies. M. D. W., Eagle, Mich.—I am inclined to believe that your horses first suffered from acute indiges-tion, followed by inflammation and per-haps a destruction of bowel and in some cases may die from rupture of dia-phragm cr stomach. The symptoms they show indicate stomach and bowel trou-ble. Your Vet. has perhaps done as much for them as anyone could. During the hot weather this aliment may prove fatal, no matter what is done for them. Indigestion—Worms—Heaves.—Have a 12-year-old horse that is in poor condi-tion; bowels keep costive, passes some

fatal, no matter what is done for them. Indigestion—Worms—Heaves.—Have a 12-year-old horse that is in poor condi-tion: bowels keep costive, passes some worms and some days he heaves consid-crable. L. B., Charlotte, Mich.—Feed him no clover, or musty, dusty, badly cured fodder of any kind; also salt him well in order to increase thirst and if he drinks freely of water the bowels will be less costive. Mix together equal parts ground gentian, cinchona, ginger, bicar-bonate soda and muriate ammonia and give him a tablespoonful at a dose in feed two or three times a day. Swollen Groin.—Have a three-year-old colt that has a swelling on one side of scrotum that causes no pain. Last fall it seemed to bother him and I applied light blister which caused it to open and dis-charge pus. This swelling is eight inches long, and hard, but painless. H. V. D., Byron Center, Mich.—I advise you to leave him alone, for it is almost impos-sible to reduce or remove a swelling of this kind. Give him 1 dr. potasium iodide at a dose in feed or water twice daily. Spinal Disease.—Our yearling filly

addide at a dose in feed or water twice daily.
Spinal Disease.—Our yearling filly stepped in a hole and must have injured her back. for ever since she travels with fore legs wide apart and her hind quarters wabble. J. C. S., Chesill, Mich.—Give her ½ dr. ground nux vomica and 1 dr. potassium iodide at a dose in feed twice a day.
Hoven—Ascites.—About a week ago I houled one of my cows was bloated, but hought it was only a slight attack of indigestion and I gave her a pint of raw linseed oil and thought she would be all right. The third morning I found her dead. After skinning her I opened into abdomen and an enormous quantity of water ran out of her. This cow was due to calf in two or three weeks: C. B. H., Fennville, Mich.—Your cow suffered from functional disease of liver and kidneys; besides, her digestion was bad. The dropsical trouble was a result of other aliments and it is doubtiful if she could have been cured. You may never have another case of this kind.





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Don't Fail to See This Car

In the HUDSON "37" is expressed the combined skill and experience of the greatest body of automobile engineers in the industry.

These men represent the training of the greatest factories in the world. They have learned what experience has taught the 97 principal makers of Europe and America.

They were active, important members of those various organizations and combined had a hand in the production of more than 200,000 automobiles.

Imagine what strides, what advancement, men of such experience are bound to offer in the car which all have joined in perfecting.

You probably have an ideal of what a motor car should be. Your knowledge of automobile shortcomings undoubtedly has suggested improvements which you would have in a car if it were built to your order.

Well, here is where you will find not only what you wish to see, but also what has been expressed through the experience that has been gained from the 200,000 owners who have used the cars which these men have helped to build.

It is all in the one car. It expresses as nearly the limit of four-cylinder construction as has been reached.

Hadn't You Better Wait?

Even if you are impatient to have a new car now, don't you think it better to see the HUDSON "37" before you buy?

It will only be a few days at the most before your dealer will have a "37" to demonstrate to you. If you buy any other car before you have seen the "37" disappointment is surely in store for you.

No car you can get today, regardless of price, has all the features that are offered in the "37."

Consider for a moment the rapid advancement that has been made in motor car building. It is almost as startling as are the changes in fashion. Think how strange are the open cars of two years ago. What proportion of their original cost do you think such cars now bring? It is not due to wear that their value has declined so much. No, it is the advance that has been made in automobile building since the open cars were put on the market.

With that thought in mind you must recognize the importance of choosing wisely now. Automobiles as now built should be of service for many years and you don't want to feel that you will have to buy a new car in two, three or four years because the one you have just purchased, will at that time be out of date.

Electric Self-Cranking—Electrically Lighted

The Greatest Engineer of All—Their Chief

At the head of these experts is Howard E. Coffin, the foremost automobile engineer of America, recognized here and abroad as the most startlingly original designer the industry has produced.

His genius is an inspiration to his associates. From him they have gained in ability. On account of them he has become a broader and more versatile builder.

What one man lacked in experience, some one of his associates was able to supply. The problems one was unable to solve, others soon found the answer for.

That accounts for the completeness of this car. That accounts for the fact that you will find on it the very things that you have wished to find on an automobile. That explains why this car will do the things which other four-cylinder automobiles have failed to accomplish.

Your Safety in This Choice

No one is likely to soon have many new ideas to offer that these 48 engineers have not already anticipated.

They all combine in saying that the new HUDSON "37" represents the best that there is in four-cylinder construction.

They proved every move they have made through 20,000 miles of gruelling country, mountainous, mud and snow driving.

The most abusive treatment one of the most skilled drivers in the world could give this car in the thousands of miles he drove it, without developing a single weakness, or discovering a single detail in which improvement could be made either in design, construction, simplicity, easy riding qualities, responsiveness, safety or power, is a guarantee that you will find it expresses your ideal of what a four-cylinder car should be.

Some of its Notable Features

77

(5)

Electric Self-Cranking. Automatic. Will turn over motor 30 minutes. Free from complications. Simple. Positively effective.

Electric Lights. Brilliant head lights. Side lights. Tail Lamp. Illuminated dash. Extension lamp for night work about car. All operated by handy switch on dash.

Ignition. Integral with electric cranking and electric lighting equipment. Gives magneto spark. Known as Delco Patented System, the most effective, efficient yet produced.

Power. Four-cylinder—en bloc, long stroke. New type, self-adjusting multiple jet carburetor. High efficiency, great economy, 43 horsepower, brake test, 37 horsepower at 1500 revolutions per minute.

Speedometer. Clock. Illuminated face. Magnetic construction. Jeweled bearings. Registers up to 60 miles an hour. Eight day keyless clock.

Windshield. Rain vision and ventilating. Not a makeshift. Not an attachment. A part of the body.

Upholstering. 12 inches deep. Highest development of automobile upholstering. Turkish type. Soft, flexible, resilient. Comfortable positions. Handbuffed leather-the best to be had.

Horn—Bulb type. Concealed tubing. Demountable Rims. Latest type. Light. Easily removed. Carry 36x4-inch Fisk tires—heavy car type. Extra rim.

tires—heavy car type. Extra rim. Top. Genuine mohair. Graceful lines. Well fitted. Storm curtains. Dust envelope.

Bodies. Note illustration. Deep, low, wide and comfortable. You sit in the car—not on it. High backs. Graceful lines. All finished according to best coach painting practices. 21 coats—varnish and color.

Nickel trimmings throughout.

Gasoline Tank. Gasoline is carried in tank at rear of car. Simple, effective, with two pound pressure. Keeps constant supply in carburetor either going up or down hill. Magnetic gasoline gauge continually indicates gasoline level.

Wheels. Extra strong. Artillery type, Ten spokes in front wheel. Ten hub flange bolts. Twelve spokes in rear wheel, Six hub flange bolts. Six spoke bolts.

Bearings. All Roller bearings, thoroughly tested. Latest type.

Rear Axle. Pressed steel. Full adjustable, full floating. Large bearings. Heat treated nickel steel shafts. Easily disassembled, an item which indicates the simplicity and get-at-ableness of the entire car.

Models and Price. Five-Passenger Touring, Five-Passenger Torpedo, Two-Passenger Roadster—\$1875, f. o. b. Detroit. Canadian price, duty paid, \$2425 f. o. b. Detroit. One price to all—everywhere.

Simplicity. The HUDSON standard of simplicity is maintained. Every detail is accessible. There is no unnecessary weight. All oiling places are convenient. There are but two grease cups on the motor. Every unit is so designed that it can be quickly and easily disassembled. Think what an advance this is over even the previous HUDSON—the "33"—the "Car with 1000 less parts."

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DETROIT, AUG. 3, 1912.

CURRENT COMMENT.

In another column Unity of Rural and of this issue will be found an article Urban Interests.

on the organization of an improvement association with its headquarters at the county seat of one of the important agricultural counties in the state. The plan upon which this association is organized, as outlined in this article, shows that there is a recognition by the leaders in the affairs of both city and country of the fact that their interests are very similar in character, and that what will be beneficial to the one will also be helpful to the other.

One of the most encouraging tendencies of our modern times is this getting together of urban and rural interests which has been noted many times through these columns during the past year. This office appropriation bill. What the peogeneral recognition of the fact that the interests of our county, state or country should be considered as a unit and that whatever makes for the advancement of any one division or class of people is also beneficial alike to others, promises well for the future material advancement of our prosperity in future years. This tendency has been shown not alone in the matter of commercial organization, but has found expression in a social way as well. Many of the Farmers' Clubs and Granges have a town membership and many of the town organizations have country membership.

There cannot be too great a develop-ment of this spirit of unity between urban and rural people along industrial or social lines. It is a work which should receive encouragement from every source and this movement for business unity in the promotion of the interests of an en-

Briefly summarized, this bill provides be best adapted to our conditions. that postal rates on parcels shall vary with distances, thus protecting local mer- that the date decided upon for the Am- car chants and competing with the express companies. The most radical provision, however, is the entire elimination of one been adopted. The original plan of havclass of matter, the third and fourth ing two delegates from each state was classes of matter being combined. The adhered to and the point is made that class eliminated is that known as third by having the committee start in May, class matter which included books, cat- 1913, an opportunity will be afforded to alogs, circulars, form letters and other ask the state legislatures, most of which printed matter, packages of seeds, plants, will be in session from January 1, 1913, bulbs, etc., which class of matter is now to make the requisite appropriations for mailable at once cent for each two the traveling expenses of these delegates. ounces or fraction thereof.

mailable matter are figured in this new each delegate, including his proportionate bill according to a zone system, a special share of cost of stenographic reports, rate of one cent per ounce up to four translations, etc. ounces being provided for circulars and small packages of goods. The rates for local city and rural delivery are five cents for the first pound and one cent for each additional pound. Within the 50 mile zone six cents for the first pound and two cents for each additional pound; with the 200 mile zone seven cents for the first pound and three cents per pound for each additional pound; within the 500 nestly for this purpose during the ses-

mile zone eight cents per pound for the sions of the legislatures." He also sugfirst pound and four cents for each ad- gests that all agricultural organizations ditional pound; within the 1,000 mile zone appoint committees to take up the work 11 cents for the first pound and seven now, to the end that every section of the cents for each additional pound; within United States may be represented in this the 2,000 mile zone 12 cents for the first pound and 10 cents for each additional pound; outside the 2,000 mile zone 12 operative credit organizations. Correscents per pound and 12 cents for each additional pound.

These rates, according to the senate committee, are based upon the careful computation of actual cost of carrying, distributing and delivering packages, plus actual cost of transportation. The weight limit is fixed at 11 pounds and the maximum charge 12 cents per pound, which are the international limits and rates.

It appears, however, from an analysis of the rates that books and catalogs formerly mailable at the third-class rates will be obliged to pay a considerably higher rate than at present, and higher even than would be required to be paid by those mailing similar articles from foreign countries to any point within this country. Apparently this compro-mise was reached as a means of satisfy-ing the people who have demanded an adequate parcels post and those who have objected to its application under the fundamental principle of our post office service, which has not taken into con-sideration the item of distance in the matter of the charges made, and like most compromises of this character, it would seem to have some serious defect. In view of the present situation we

would reiterate our declaration of some time ago, that it would be better for the friends of parcels post to advocate the thorough investigation of every phase of the question by a joint committee, their report to be acted upon at the next session of congress, instead of favoring the early disposition of the matter in a poorly considered rider to the general post ple of the country want is an adequate parcels post system without the complications and costly preparations which a proposition of this kind would seem to entail, and a schedule of the rates which would be plain to the average patron without the assistance of an expert in-terpreter of rate sheets.

Possibly this may be the kind of parcels post which is best adapted to a big country like ours, but this ought to be carefully demonstrated by a campaign of education before we make any expensive experiments, since it is not the kind of parcels post that those who have favored the proposition have had in mind.

Hon, David Lu-To Investigate European bin, delegate of Co-operative Credit the United States

to the Interna-Systems. tional Institute of Agriculture at Rome, the promotion of the interests of an entire county is certainly a move in the right direction.
After weeks and months
Bourne Parcels of discussion of the Southern Commercial Congress, held at Nashville, the initiatory step was taken the senate committee on the post office appropriation bill, including a parcels post proposition bill instead of being threshed out as asparate problem, pursuant to the recipromendation of the post office appropriation bill instead of being threshed out as a separate problem, pursuant to the reciprosen to mendation of the post office appropriation bill instead of being threshed out as a separate problem, pursuant to the reciprosen the senate compromise provision.
Briefly summarized, this bill provides has prepared a report to that body on

In the report by Mr. Lubin, it appears erican committee to start on its journey to Europe is May, 1913, which time has It is estimated that \$1,200 would cover The rates on this combined class of the three months' traveling expenses for

> In his communication Mr. Lubin says: "It is now in order for the agricultural organizations and the leaders in agricultural industries in the United States to see that each state appoints its delegates to the American committee, to pledge candidates for election to the state legislatures in November to support the requisite appropriations and to work ear-

Sins of the legislatures." He also suggests that all agricultural organizations appoint committees to take up the work of the tagest tagest that all agricultural organizations appoint committees to take up the work of the tagest t

men who are interested in American agriculture to make this investigation and report a practicable scheme for the organization of a national rural society in the United States, which will be adapted to our needs and conditions, is one which should receive the support of every person who is interested in the further upbuilding of our agriculture. Indeed, it is believed by many that a national movement of this kind would bring about in natural way a desirable measure of banking and currency reform, and afford an elasticity to our circulatory medium which is generally recognized as desirable, but for which adequate provision has not yet been made.

HAPPENINGS OF THE WEEK.

National.

Two men, a woman and three boys ere killed outright when a Lake Shore Michigan Southern train struck an au-

were killed outright when a Lake Shore & Michigan Southern train struck an au-tomobile at a crossing near Alexis, Mich., Sunday afternoon. The approaching rall-road train was obscured by a corn field. A number of passengers were hurt when two electric cars collided just out-side of the city of Detroit on the Detroit, Jackson & Chicago road. The accident occurred Sunday night during a storm. It was claimed by the officials that the danger lights were obscured by the heavy rain which was falling. Unusual excitement was caused last week by the arrest of several aldermen of the common council of Detroit upon the charge of graft. Detectives had been employed in connection with the closing of Seventh street to accommodate the enlargement of certain raliroad proper-ties. In order to secure the required votes for passing the ordinance closing the street it was necessary to pay for same in amounts ranging from \$100 to \$1,000 It is probable that a grand jury will be selected to review the evidence collected by the detectives and investi-gate further into the charges that have iten made. Seven balloons started from Kansas teen made.

Feen made. Seven balloons started from Kansas City in the elimination contest to deter-mine the three American balloons to enter in the international balloon race in Germany next fall. Two of the bal-loons were unheard from Monday. The Kansas City No, 2 landed about 24 miles from Detroit on Sunday after having

ng busine Orders h

would be required to obtain a charter from the federal government before do-ing business. Orders have been awarded the various car companies by the Denver & Rio Grande railroad for 700 box cars, 100 stock cars, 350 coal cars and 50 cabooses, entailing a cost of \$1,000,000. There appears to be no legal opposition to the merger of the Bell Telephone and Home Telephone Companies in Michigan. Hearings have been held before the state railway commission and it appears from the reports of the hearings that the priv-ilege will be allowed. The only obstacle that is delaying the final decision is whether independent companies through-out the state who have had working ar-rangements with the Home Telephone company. It is the purpose of the com-mission to see that these rights are properly surrounded with safeguards. Effort is being made to secure congress-sional legislation providing for the con-struction of an ocean-to-ocean road across the United States. It is the pur-pose of the promoters to follow the old trail across the continent if they are suc-cessful in their efforts to get the favor of congress. The supreme court of the state of Illi-

congress.

of congress. The supreme court of the state of Illi-nois sustained the law enacted by the legislature of that state prohibiting the drinking of intoxicating liquors on rail-road trains in the case of Tarantia vs. Louisyille & Nashville railroad.

London. The representatives of the field reached an agreement with the employ-ers and declared the strike off. The workers, however, affirm that the repro-sentatives betrayed them and that they will not consent to the terms of the agree The ment made. Just what the outcome of this will be it is impossible to state.

MICHIGAN FAIRS FOR 1912.

The following contains a list of fairs to be held in Michigan during 1912. Most of the dates have been received from official sources but should anyone have official sources but should anyone have positive knowledge of incorrectness in the list we would appreciate greatly if they would advise us with correction. Also, if any fairs are omitted we would be pleased to receive information regard-ing them. The list is arranged as fol-lows: First, the name of fair; second, where it is held; third, the date. So. Michigan State Fair, Benton Har-bor, Aug. 13-16. Tuscola Co., Vassar, Aug. 21-24. Cass City, Cass City, Aug. 20-23. Caro, Caro, Aug. 26-30. Flint, Flint, Aug. 26-30. Gratiot Co., Ithaca, Aug. 27-Sept. 1. N. E. Michigan, Bay City, Sept. 2-6. Antrim Co., Bellaire, Sept. 3-6. Barry Co., Hastings, Sept. 2-5. Cass Co., Cassopolis, Sept. 3-6. Howard City, Howard City, Sept. 3-5. Marquette Co., Marquette, Sept. 3-6. Sanilae Co., Sandusky, Sept. 3-6. West Michigan State, Grand Rapids, Sept. 9-13. Charlevoix Co., East Jordan, Sept. 10-13.

Charlevoix Co., East Jordan, Sept. 10-

. Deckerville, Deckerville, Sept. 10-13. Menominee Co., Menominee, Sept. 10-

Thumb District, Port Huron, Sept. 10-13

³. Michigan State, Detroit, Sept. 16-21. Allegan Co., Allegan, Sept. 17-20. Berlin, Berlin, Sept. 17-20. Cadillac, Cadillac, Sept. 17-20. Delta Co., Escanaba, Sept. 17-20. Emmet Co., Petoskey, Sept. 17-20. Greenville, Greenville, Sept. 17-20. Huron Co., Bad Axe, Sept. 17-20. Otsego Co., Gaylord, Sept. 17-20. Cheboygan Co., Wolverine, Sept. 25-27. Chippewa Co., Sault Ste. Marie, Sept. 6-27.

Chippewa Co., Wolvernie, Sept. 25-27. Chippewa Co., Sault Ste. Marie, Sept. 6-27. Copper Co., Houghton, Sept. 24-28. Ionia Co., Ionia, Sept. 25-27. Inter-State, Kalamazoo, Sept. 23-28. Lenawee Co., Adrian, Sept. 23-27. Milford, Milford, Sept. 24-27. North Branch, No. Branch, Sept. 25-27. Occana Co., Hart, Sept. 24-27. St. Joseph Co., Centerville, Sept. 24-27. Armada, Armada, Oct. 2-4. Eaton Co., Charlotte, Oct. 1-4. Hillsdale Co., Hillsdale, Sept. 30-Oct. 4. Imlay City, Imlay City, Oct. 1-4. Fowlerville, Fowlerville, Oct. 8-11. State Fairs and Expositions. Iowa, Des Moines, Aug. 22-30. Ohio, Columbus, Sept. 2-6. Minnesota, Hamline, Sept. 2-7. Nebraska, Lincoln, Sept. 2-6. West Virginia, Wheeling, Sept. 2-6. West Virginia, Wheeling, Sept. 9-14. New York, Syracuse. Sept. 9-14. South Dakota, Huron, Sept. 9-13. W. Michigan, Grand Rapids, Sept. 9-13. Wisconsin, Milwaukee, Sept. 10-14. Michigan, Detroit, Sept. 16-21. International Dairy Show, Milwaukee, Oct. 22-31.

Oct National Dairy Show, Chicago, Oct. 24-Nov. 3.

MICHIGAN FAIRS THAT SHOULD BE WELL ATTENDED.

One of the first and best fairs in Michigan is the one held in Tuscola county at Vassar on Aug. 21-22-23-24. Horse races and other big attractions are promised. Wm. Grant, Sec.

The Caro Fair and Night Carnival is looked upon as one of the most success-ful fairs in Michigan. It will be held at Caro, Aug. 26-27-28-29-30. F. B. Rans-ford, Sec. Fair and Night

The Sixty-third Annual Flint Fair will be held Aug. 26-27-28-29-30. This fair will be a great one and not to attend will mean loss of profit and pleasure. Wm. Veit, Sec.

Win. Veit, Sec. The Southern Michigan State Fair this year promises to be the "Biggest Yet.' After much study and thought the board of directors have placed the dates Aug. 13-14-15-16-17, believing that a date at this season of the year in this particular location will give the best results. There are to be many radical changes in the procedures and many novelties offered in the way of free attractions. The build-ings and grounds are now in the hands of the ground-keepers and will be reno-vated and renewed in a large degree.



This Magazine Section forms a part of our paper twice a month. Every article is written especially for it, and does not appear elsewhere

ASTLE TOWN ITS CHIVA AND

HEN the daily press recently an the incorporation of nounced "The College Mound Oil Comrany" it is very likely that not one reader out of a thousand had the slightest idea where the place was. Sixty years ago nearly everybody in the west could have told something about the twn on the hill. Then it was a seat of learning, having students from Missouri and many other states. The large castle-like structure, with its imposing towers, stands of the gray met and chose a tall fair ed because he was too old. He was then today on its lofty eminence, just as it did in '51. Now the world rushes by behind the iron horse, and the old college is far away from its pathway. That explains the difference. That is why the ancient town and its quaint school build-ings are only a memory to white-haired doctors, lawyers and business men scattered throughout the Mississippi Valley.

If College Mound were in Switzerland, or nestling amid the pleasant hills of old England, it would long since have become immortalized in the printed record of history and of the magazines. "The average American doesn't see the picturesque about his own vine and fig tree. To him the place would simply be catalogued among the "lost towns," with the possibilities of a restoration by a big oil concern-nothing more.

Leaving the ridge road on the east you drop down into the valley, which you cross at a lively gait because the road is smooth, and then begin an ascent of the long hill, on the crest of which arises, out of the mists, as an apparition of the dead and forgotten past, the big structure which gives the town its name. Nestling about its feet on the hillside, like the cottages of its tenantry, are the homes of those who have not forsaken the old student of the law but recently wedded town with its glory.

Sir Walter Scott, with such a subject, might have called us about the fireside tain through a hundred battles, right up down had died of old age. of a stormy winter's night, and peopled to the cannon's mouth, with flashing Robert's son. Smith, bo the place with fierce men-at-arms, sworn sabre, and brought him home to his loved on the great hill, was an illiterate man, to the bidding of some mighty baron. ones. It took the dark-eyed lieutenant but with plenty of good, hard sense. As For the foray, the scout, the tourney he would have the wide swells of blue-grass mer day. The troopers were guarding a ed him and he thought he was going to meadow, the soft carpeted forest, the southern railroad embankment, when it die. So he called for foolscap paper, a smooth plateau. Calling up the past he sent a minie ball squarely into his fore- quill and some ink. Then he disposed of would have the old tavern, with its head, and the sweet-faced young woman, his lands, houses, horses, mules, cattle swinging sign, the six-horse stage coach waiting in the shadow of the great ca- and farming tools among a score or so

BY EDGAR WHITE.

in the presence of the president chose stone.' the colors under which they would serve.

There were some who donned the blue the town on the big hill. Robert Gipson, and some who espoused the gray.

College and came back, and some wno patriotism-the man who would fight and did not return. There was a day when die for his country. Patriotism is only a the students met in the large chapel and broadening of the love for the hearth-

Of a verity there was character about five foot tall, lived to be 118 years old, Under the trees at Penny's Ridge those and after being mustered in was reject-

there was not a punctuation mark of any kind, and most of the words disclosed an individuality of spelling. When the old gentleman died some of the distant kin immediately went to law to break the document which had been prepared with such care to outwit the lawyers

"Why, sure," said the men of Black-stone; "it will be a joke to bust that; why, it doesn't mean anything.'

Seven astute lawyers got into the game

College Mound, Showing the Old Castle-like College Structure Erected Ten Years Before the Civil War.

lieutenant a dark-eyed, clear-headed the honor of dying for his country. "I'll show 'em that I'm only a young to one of the most beautiful maidens in chap," he said, and he just kept on liv- in the newspapers and law magazines as all that country. Destiny took the cap- ing long after those who had turned him a curiosity of literature. The old tesall that country. Destiny took the cap- ing long after those who had turned him

Robert's son. Smith, born and reared As along the same path up to one hot sum- he was getting along in life a mule kick-

stripling as their captain, and as their 45, and lived 73 years after being denied and began figuring on how long they could keep the case in court. It looked like easy money. The will was printed tator was ridiculed for trying to beat the lawyers with a Chinese puzzle.

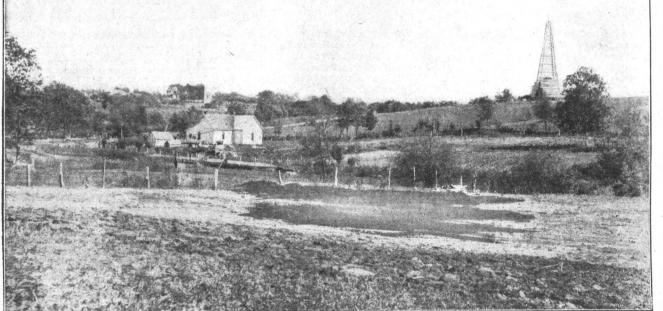
The circuit judge took the will out of the clerk's office one night and sat up with it at home. Next morning he came into court with the problem solved.

"Gentlemen," he said to the array of lawyers, "it is very clear to me that the old man meant so and so," and he went on, taking up that funny looking document phrase by phrase, and shedding the light on it. When he had finished it was as clear as the noonday sun just what the old man wanted to do with his earthly possessions, and the case stopped then and there.

"Uncle" Jimps Dysart, one of the founders of the College, was a Presbyterian from away back. Although a great friend of education, he hadn't had time in his busy life for much "book-larnin'." But it was no handicap. He debated with any sort of talent the Baptists or "Campbellites" sent against him, and in-"Because he wore 'em variably won. out," the discomfited ones would say. It was related of "Uncle Jimps" that he refused to join in a meeting where they were praying for rain "because the wind was in the wrong direction."

"Uncle Jimps" was once matched for a debate with a Campbellite-that's the term they used in the old days, and it was intended to convey no reproachhis opponent having been contracted for by the Baptists. Not long before, "Un-cle Jimps" had worsted a very learned Baptist debater, and the Baptists declared the only reason was that their champion lacked the physical ability to talk as loud and long as "Uncle Jimps." But the Campbellite was as big and strong as "Uncle Jimps." The Baptists, confident in their gladiator, were out in force, right up in front.

For the first half day the two men sparred for points. In the afternoon "Uncle Jimps" agreed to some proposi-Before



Another View of the Old Town with the College Building on Mound in Left Background.

capital city of Iowa, the huntsman with clothes and selected a dress of black. plumed hat and flint-lock rifle, the wind- "You go to the hills," said Opie Read complacently. ing horn and the long lean hounds of the once to the writer, "when you want "There!" he said to the children, chase. For College Mound had all these character. The feud was born amid the have made it so plain that you won't glories when her big building was young. hills, not on the plains. An excess of need to spend any money lawin' over it." tion his opponent laid down. Then the

And then it had its tragedy, too. There sentiment is the foundation of the feud. were some who went to war from the When you broaden the feud you have god amen." In the 2,000 words of it Jimps" made at the Baptists.

running from the Missouri river to the thedral structure, laid aside her pretty of descendants, and when he had finish--ed his task he looked at the document "T

The will began thus: "in the naim of Campbellite acquiesced in a shot "Uncle

long both debaters joined forces and stores and cafes are brilliantly illumihis opponent into camp, and the Baptists who had come to cheer left to weep.

When the Civil war was at its height headed down for Macon and Bloomington for the startling purpose of, wiping out two good towns. Many citizens of south, but there were plenty of old farmers about the big hill, and they gathered their flint-locks, scythes and corn-knives and hastened to the threatened points.

The "invasion" it was said, was scheduled to occur on a certain date designated as black Friday. It was a dark, rainy The patriots from College Mound day. patrolled the streets all day waiting to lege Mound army was convinced that the of the reception awaiting them.

cus, a merry-go-round or a moving pic- "If we hit it," they say, "we'll make ture show. Its only annual diversion is a burg out of this place. Wonder you a big Holiness campmeeting, which runs fellers never thought of getting busy on for ten days every summer. Then the this proposition yourselves." village is roused to its old-time life and hustle, for the campmeeting brings many Scott stands no show with steam shovpeople to town. Of night all the little els, pipe-lines and railroad cars.

were ripping into the Baptists' ranks nated with oil lamps, and here and there to him," was the firm reply. right and left. "Uncle Jimps" had taken is a street light. To College Mound, and Mr. Norton, seated on his is a street light. To College Mound, and Mr. Norton, seated on his front porch, for miles around, it is the harvest home beheld a negro boy approaching very occasion, and everybody quits work and slowly, bowed beneath what seemed goes to town. The meeting itself is not be an enormous hump upon his back. word reached College Mound that "The the only magnet. It is the social oppor-Black Horse Cavalry," of Iowa, were tunity; the meeting of old friends, an octunity; the meeting of old friends, an occasion when everybody is out.

For 21 years the Holiness people have fully upon the porch. held their big meeting at the hill town. College Mound were then fighting in the It was far from the "maddening throng," the lure of theatres, the temptation of gift. the saloon.

If vast lakes of oil are washing the un- ed indulgently. derworld shores about the College the discovery will be read with interest by the alumni now scattered to the four \$50,000 wager that there was oil in those spit the "Black Horse" and their riders, parts were not attracted by the sentibut the enemy never came, and the Col- mental atmosphere about the school-castle and its hive of retainers. Their surreason was the "invaders" had learned veyors took no account of the almost sacred history that belongs to everything College Mound has never had a cir- within reach of vision from the tower loft.

It is the spirit of the age. Sir Walter

WATERMELON WAR. · BY ADELA S. CODY.

the fence but a stray runner had crept through a knothole in one of the lower which led to Mrs. Fenmore's door. There it flowered and bore a melon that acted said, scornfully, "Poor little Sissy-boy, like the little green peach which proved was its pretty face spoiled by naughty, so disastrous to Johnny Jones and his naughty Eddie? It's too bad!" sister, Sue, for "it grew and it grew and it grew" the hollyhocks themselves.

ing eyes and a troubled mind. Daily she actually spurred into rowdyism by the asked herself, did it belong to her or to parent whose alm should be to safeguard her neighbor?

They were not on "speaking terms" and not by the stiffest bow did they ac- ample of parental influence in restrainknowledge that they were aware of each ing a boy from rowdyism," sneered Mrs. other's existence. So Mr. Norton did not Fenmore. know that the prize melon of Sweetbriar her hand dramatically towards her son, flowers

She had a hard task to impress upon criss-crossing his freckled face. the mind of her nine-year-old son the fact that the melon did not become theirs much at this evidence of his son's pugiljust because it happened to grow on istic powers, as at the unholy satisfactheir side of the fence, and that "plug- tion that filled his bosom at the thought ging" it to test its ripeness was not to that Clarence had given at least as much ery time Eddie passed up or down the guise it as we will, we all admire the ery time Eddie passed up of down the gate in who can give, as well as take, hard at Mr. Norton's feet. walk he would pause and furtively push one who can give, as well as take, hard at Mr. Norton's feet. aside its veil of glowing petunias and blows in the struggles of life, whether pound its big speckled side with his fist, listening eagerly to hear the drum-like ones. echo which would proclaim that it was And his air of mysready to be eaten. tery and the hints he dropped when he encountered Clarence Norton were fairly maddening to that young person.

Although Eddie kept his secret darkly, its influence was felt among the boys of the village who took sides with the and make him drink pink lemonade!" twain, although ignorant of the cause of find fine, fat angleworms any hour dur. than she herself guessed, ing the fishing season, and was the best pitcher in the club, and wasn't afraid to abused again by the poor misguided Clarence was generous in treats of son," retorted Mr. Norton. chewing gum and taffy and always had him and whatever he did.

one day, the boys had a glorious "scrap- scorn, an attempt so remarkable in its Mr. Norton ran down to the scene two "backe ping match," and Eddie carried home effect that Eddie laughed aloud, and the one eye hidden by a thick black "shut- patches over his face became so amusing ter" and wore a corsage bouquet of blue in their grotesqueness that Clarence and black marks over his chest, while echoed the laugh. Clarence surprised his father by the unusual width and vivid color of his nose and a "tattoo" of black and blue spots over his chest and shoulders.

After the heir of his house had been bathed in witch-hazel by the colored melon from its vine and ordered the colhousekeeper, Mr. Norton took him by ored boy who was her assistant gardenthe hand and marched into Mrs. Fen- er, to carry it to Mr. Norton. more's yard.

brighter sparkle in her eyes, enveloped an' 'longs ter yoh," protested that youth.

The vine grew on Mr. Norton's side of in an aura of arnica and vitch-hazel. "Well?" she questioned, curtly. "Madam, I have called to protest

boards and snuggled down among the against the laxity of your control of that petunias that were massed under the young ruffian who assaulted my son and hollyhocks which rose in a gorgeous ar- —as you may see—so vilely disfigured ray of red and white along the trim walk him."

Mrs. Fenmore gave her head a toss and

Mr. Norton grew red with anger. "You in the most remarkable man- are determined to send that unfortunate ner until it threatened to reach the tops boy of yours to the gallows by encouraging his evil tendencies," he said hotly. Mrs. Fenmore looked at it with admir- "From my soul I pity the child who is him against it."

"Huh! Your Clarence is a shining ex-"Look there!" She waved Dale had rambled off his premises and who had appeared in the doorway beside was flourishing among his neighbor's her with a big handkerchief hiding one eye and rumerous pieces of court plaster

Mr. Norton frowned fiercely, not so be thought of for one moment. But ev- as he had received in the battle. Disthose struggles be physical or moral

> "The provocation was sufficient to-to -justify the-the-action of my son," he that you came bothering me." finally stammered; "but I shall see that he is punished in accordance with the it," said Sambo, earnestly.

gravity of the offense." "No doubt," scoffed Mrs. Fenmore. "You will probably take him to a show Mr. Norton flushed still deeper.

the trouble. Eddie was always able to haps her shaft struck nearer the mark

hold bumblebees in his bare hand, while child who has the misfortune to be your

The principals in the case grinned revarious kinds of pencils and bits of assuringly at each other. The storm area ton sprang to his feet crying, string to lend or give, so each boy be- was growing wider and they saw an exwas growing wider and they saw an ex-cellent prospect of excitement before "I seed him chasin' a firebug on de Will the picture you remember paint them. Eddie winked his solitary eye and road as I cum in, sah." Or Clarence tried to turn up his nose in The automobile had stopped and as Clarence tried to turn up his nose in The automobile had stopped and as came the head of a gang which upheld cellent prospect of excitement before

with dignity.

Mrs. Fenmore, sharply. That evening Mrs. Fenmore cut the

"Mis' Fenmore, ma'am, yoh shorely

Mrs. Fenmore came to the door with isn't gwine ter give dat man dis yere a bright color in her cheeks and a fine mellun? It growed in yer garding

"It belongs to Mr. Norton-so take it "Now bring me some water and col-

THE MICHIGAN FARMER.

slowly, bowed beneath what seemed to He was surprised to see the hump transformed into a huge watermelon as chase it away, the boy unstrapped it and laid it care- "See, Papa,

"Mis' Fenmore sends yoh dis yere," was the rather sullen explanation of the

Mr. Norton dropped his cigar and smil-

"It's just like Kate-all fire and towblazing out at one in a perfect fury, but like the others." never too proud to acknowledge she is in corners of the nation. The commercial fault and always willing to make up experts of a far-off state who made a again. She hasn't changed, I find, since we quarreled and made friends almost daily in old Kentuck," he mused, almost audibly.

> "An' she tol' me ter give yoh dis-" went on the boy, handing him a small the extent of his injuries looked relievwhite missive.

> Mr. Norton took it with a feeling of intense satisfaction and turned on the that it was unnecessary and they went light in order to read it. But the look away. speedily changed to one of indignation as

he perused the curt note. "Take that thing back and tell Mrs. Fenmore that I do not wish to have any communication with her whatever. I can already see the poisonous influence of her son's example in Clarence."

Clarence had come out on the porch and was eagerly inspecting the watermelon. A look of keen disappointment crossed his features as the negro, with a grin, proceeded to strap the melon on his back.

"Mis' Fenmore, he sez dat he don't want ter have his son pizened, an' here's de mellun back," was the message the boy gave as he began to unstrap the melon in Mrs. Fenmore's dining-room. "The idea! Does he take me for a

Lucretia Borgia? I won't have his hateful old melon on my place one instant longer. Return it at once!" cried Mrs. Fenmore, with blazing eyes.

Eddie, whose face had shone with pleased anticipations at the sight of the returned melon, sighed regretfully and glanced longingly at the forbidden fruit. Sambo locked at her protestingly.

"But, ma'am, he says dat he don't want-" "Take that melon back this instant!"

commanded the lady. "My back's half broke now, totin' dis yere mellun 'round to folks what don't want it," grumbled the boy in an aside to Eddie. "White folks am shorely queer Why doesn't dey give it ter someone what don't hab ter be forced ter eat it?'

"I guess it's fine and ripe," said Eddie, stroking the big speckled side caressingly.

"It shorely is," Sambo assured him as left the room. he

"Mis' Fenmore, sah, sez she ain't no Creeture Bargain, an' she won't have yer ol' mellun, nohow," was the return message as the boy again dumped the melon

wanted no communication with Mrs. Fenmore? Take that object out of my sight as quickly as you can, or you'll be sorry

"Say, boss, you might as well take "Dat woman 'sists dat de mellun 'longs ter yoh, an' I dasn't go back wif it. Lemme cut it, sah, an' yoh jest try a slice-

"Take the detestable thing away at Per- once," commanded Mr. Norton.

Very slowly and reluctantly the negro began to put the straps around the de-"At least I shall see that he is not spised melon. Before he had them buckled there was a fierce chug, chug, chug, followed by a blaze of light flying along the road in front of the house. A wild scream rang upon the air and Mr. Nor-"Clarence! Where is Clarence?"

Mr. Norton ran down to the scene two white-faced men were lifting a limp lit-tle figure from the road beside it. "He ran straight in front of us with-the face is a straight in front of us with-with scene is a straight in front of us with-the scene is a straight in front of us with-the scene is a straight in front of us with-the scene is a straight in front of us with-scene is a straight in front of us with-with scene is a straight in front of us with-with scene is a straight in front of us with-scene is straight i

out a bit of warning," apologized one of choed the laugh. "Come here, my son," said Mr. Norton, ith dignity. "Come into the house, Eddie," ordered "Come into the house, Edd

They carried him into the reception hall and laid him on the sofa.

In an agony of apprehension Mr. Norbrink. brink. brink. brink. When through Time's telescope you backward look Across the years, and think—and think She looked up with an assuring smile. brink. When through Time's telescope you backward look Across the years, and think—and think The sweetest picture Memory shall then ton looked on while Mrs. Fenmore deftly examined the unconscious child with the skill and knowledge of the trained nurse.

"Don't be alarmed, Francis, he is not seriously injured," she consoled him.

ogne.' When Clarence revived he found himself supported by the arm of Mrs. Fenmore, while his father stood gazing at him with a look of such anguish in his eyes that the boy's sole desire was to

"See, Papa, I caught it!" he smiled, holding out the firefly which he still held in his clenched hand. "But it must be different from the ones we've always had here for, just as I touched it, there was a big flash and I fell down and hurt my head someway. It must be a new kind of electrical firefly, although it looks just

"The firefly that knocked you down was an automobile," said his father. "Are you hurt badly?"

"No, I just feel shaky-and my legs are wobbly," answered the boy arising and going to his father.

The gentlemen who had waited to learn ed. They offered to send medical assistance but Mrs. Fenmore assured them

"Is there anything I can do for you, son?" asked Mr. Norton, anxiously. "TS

there anything you would like?" "Yes, I would like to keep Mrs. Fenmore here always, and I'd like a slice of her watermelon right now," was the prompt rejoinder.

Eddie, who had stolen in as a quiet onlooker, darted out and dragged the melon into the apartment.

"Here it is, Ma!" he cried. Mr. Norton looked questioningly at

Mrs. Fenmore. "What do you say, Kate? Shall we di-

vide the melon and unite our future lives, forgetting and forgiving the quarrels and mistakes of the past?"

She blushed as rosily as a girl and said, laughingly, "Get me a knife, Fran-cis! That poor motherless child shall have all the watermelon he can eat."

"Golly, but dis is de premium mellun," laughed Sambo, on Mr. Norton's back porch, his face buried in a semi-circle of the juicy, red meat, while on Mrs. Fenmore's front porch Mr. Norton lingered to say, "Those boys of ours, Kate, are fine plucky little chaps and it would be a pity to have them fighting each other when they ought to be taught to direct their blows against the evils of the age. Since they have inherited their militant qualities from us, we must help other to show them how to use each them for the good of mankind."

THE GLORIFIED COMMON DAY.

BY DORA H. STOCKMAN.

When the evening shadows gently fall And your setting sun is slipping o'er the brink, When through Time's telescope you backward look

vanished years and think-

Across the vanished years and think-and think-Watching the pictures Memory shall re-call, Which one will you judge then-the best of al!?

Will the picture be of childhood, Of some joyous care-free day When you plucked the Springtime blos-

soms In the sunshine of the May?

Or some soft, deep, silvery moonlight, As you tarried at a gate By the fragrant blushing roses When Love, smiling, sealed your fate?

Will it be the flush of victory, That ethereal hour of fame Whon the throng hushed into silence, Plaudit to a well-earned name?

that fiercer, harder, conflict, With strained nerves and muscles Or

With tight, When you wrestled with the Angel Through the long hours of the night?

That picture of the shadows

Velled in heavy mists of rain, Where the trees are sighing, moaning Like a soul in mortal pain?

When the evening shadows gently fall And peacefully your sun slips o'er the brink.

recall Will glorify the Common Day-the best of all.

LEGEND OF THE CORN.

BY L. A. THORNTON.

By many a camp-fire's ruddy light, This legend quaint, of yore was told, When dandelions turned to white And maize fields showed their yellow gold. And those who listened, aged and youth, Ne'er questioned, in their hearts, its truth.

When Iroquois were bold and strong— A line of braves of stalwart mein— One led the chase, however long, His steps a king's, his brow serene, With tireless heart and courage high, The light of freedom in his eye.

And in a wigwam, dark and low, There dwelt a modest Indian maid, As fair as fairest flowers that grow On meadow-side or woodland glade, With heart as tender as a dove— A gentle maiden, formed for love.

The brave beheld the maid and turned His head to pay her tribute due; The maiden looked on him and turned For him to speak, as maidens do. And then they later named the date, When she should go to be his mate.

By nights he watched, in woodland near, Lest one should steal his bride away, And every sound that reached his ear Left him to anxious doubts a prey, Until, one night, he woke and found Her footprints in the yielding ground.

The maiden, walking in her sleep, Chose out no path, but wandered free, A trail that easy was to keep, And soon he came where he could see Her fair young face, her tight closed eyes.

They knew not terror, nor surprise.

With eager haste to draw her near, The lover rushed, in wild alarm. The maiden, wakening, screamed in fear, And as he clasped her in his arm She trembled, stiffened, shrank and changed Into a plant, unknown and strange

He sought to clasp her hands, as fair, As lily buds at early morn, And found, instead of fingers fair, He held but ears of yellow corn. And where her locks had floated free But tasseled corn-silk could he see.

This is the legend told of yore, When Iroquois their camp-fires lit, And when the corn its fruitage bore They saw the maiden's form in it. For so, the story said, was born The first silk-tasseled stalk of corn.

EXTRACT FROM AN AUTOBIOGRA-PHY.

BY UNCLE RETAWAL

The two children, Alice and James, had beeno playing tag on the grass plat that bordered my special seed corn patch near the house. They were tired and Alice and "Shep," the dog, were lying on the sod near a deep green stalk of corn, while James went to the house. It was a warm, sleepy day. Shep was soon dreaming of gophers, when Alice was surprised to hear, in a weak but audible must know it now; but, like all lives, you can study at home, but how she voice, "Good afternoon, Miss Alice; how warm the sun is and how quickly 'Shep' went to sleep; he must have been very tired. I have tried to make you hear me for several days but you have gone to the house before it was quiet enough. There is a weed feeding upon the soup my roots need; I wish you would pull mother and after being brought to your the great cause of destruction. Oxygen him out. Thank you. I shall do better that the robber is not fattening now himself at my expense in the shadow we make while I suffered because of the heat.

GETTING THEM INTERESTED.

not with words. Look at my neighbors, common center nursing tube. You call What are they telling you? Certainly, the cradles kernels or grains and the

THE MICHIGAN FARMER.

we drink, eat, and sleep the of corn. We drink, eat, and sleep the of corn. We drink are very proud of "All of my family are very proud of moisture. same as you do and you know how you "All of my family are very proud of feel when you are thirsty. Think, then, the way every mother cares for her corn what must be our condition, tied here in babies. Why shouldn't we be? Are we days like this to tired children who are family. resting. So our days are often dull, but on moonlight nights.

"As I cannot move around my roots thus made sick and die. holds we live better than the field corn.

talk? Why, Alice, all plants talk but attached by horny points in rows They are suffering from the want of nursing tube a cob; both, as one, an ear

one place, if we cannot get water. Yes, not monocotyledons? The health and those drooping leaves, with curled edges comfort of each little bud as it is being that emit a dry sound as they strike the ripened saps the life blod of its mother body when moved by a breeze are tell- beyond recovery. There are many plants ing a story. I call it talking. No, I like that weed you pulled-that can raise am the only stalk that can speak in baby-buds year after year and not die words, and I can only do it on sleepy because of the act, but not so with my

"Mother knew when she first arranged there are lively times here in this corn the threads of silk running from each of patch after dark, I assure you; especially our cells to the open air that she had but a short time to live, so she devoted the rest of her life to the work of promust absorb such food as is near them. viding for her babies. Not only is there I am told that many of the plants are a large number, but each baby must be You see we provided with condensed nutritious food cannot choose like you; the happiness of for a future use, have its own horny our short lives then depends upon the point connection buried in the breast of seedbed prepared by the farmer to a the nursing tube (the cob) and a house great extent. Your father has made this of horny skin that will protect from soil to be mellow and rich to a great common injury. She held us up while depth, porous and filled with humus; it we nursed through the cob the thin soup moisture much better than the that Dame Nature had first helped mothfields and has a better class of food, so er to cook in her leaves by the aid of the outside force, the sun. How mother

"You would like to hear about my life emitted oxygen you need and inhaled the work? Much of it is so common you carbon dioxide you exhale is something

An Ingenious Farm Boy and his Docile, Faithful Friend.

A youthful reader, living in Macomb county, writes as follows: "I thought I would write you a little letter. Will you please put this picture in the Michigan Farmer? My name is Donald Warren and the dog's name is Bose. I made this rig, all but the wagon. We are good friends together. I hitch Bose up whenever I want to."

there may be details interesting to any mixed this carbonic acid with the root child. the insects, the birds, Grandmother and nourishing to us babies, is another story. Grandfather Toad and many of my mid- Dame Nature's workmen were with us home by your father.

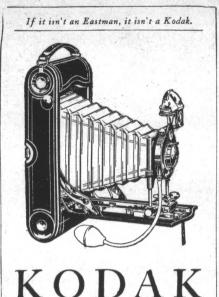
Dame Nature and an outward force, the or both from us causes us to turn yelsun, on my mother's body in a bed like low, droop and often die. If the farmer this last season. There were many of us keeps the soil mellow and fine we can

My friends, the summer breeze, push thin soup, making it thick and night visitors have informed me of our night and day. The soil in which my family history for ages past, not neg- roots rest, if mellow and porous, is filled lecting my own babyhood while with my with oxygen which is in all life and also is found in air and water. Both forms "It seems I first grew by the aid of are needed by our roots. Keeping one "Did not know that cornstalks could baby corn plants, in horn-like cradles, get the air. I said fine, for a lump is a locked matter and a clod is so much wasted soil, as we can not use anything it contains.

"We often suffer after storms from a hardening or crusting of the surface that shuts out the oxygen, or the water stands in the soil and, by its presence, keeps out the oxygen from the air. In either case we must rely upon the farmer to either drain off the extra water or break the soil crust.

"So far as we plants are interested, the soil is a vast storehouse built of pebbles, sand and mud on rocky foundations with joists of limestone containing bins, apartments, dining halls, work rooms, many workmen, for various classes of work, with other inhabitants, good and bad, all needing oxygen.

from these bins, by the aid of the microscopic hairs on her active roots, through an osmos process which your teacher can explain. As I said, much oxygen was collected, more than she needed; this she threw away by the transpiration process going on through the stomata or mouths located in the leaves. Thus, you see, my leaves are constantly reversing the effects of your respiration by giving off oxygen and absorbing carbon dioxide from the air. Our leaves, too, are not only digestive and assimilating organs but, as I said before, are stoves, that is, little laboratories in which plant food for our own growth and repair, besides



means photography with the bother left out-means that the once difficult processes have been so simplified that you can readily take good pictures by following the perfectly simple directions that accompany each camera.

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Kodaks load in daylight; plate cameras require plate holders which must be loaded in a dark-room. Kodak films are light; glass plates are heavy; Kodak films are non-breakable; glass plates are fragile. Kodak films may be developed in a dark-room but are preferably devel-oped in the Kodak Film Tank in broad daylight. Glass plates must either be developed in a dark-room or loaded into a tank in the darkroom-the film cartridge system is the only practical means of entirely eliminating the dark-room. You may easily develop your own films or may send them by mail for devel-Sending glass plates by opment. mail is risky.

With a Kodak there are no extra attachments to buy; it is complete, ready for use. With a plate camera you must buy extra plate-holders or it is of no use you—remember this in counting the cost.

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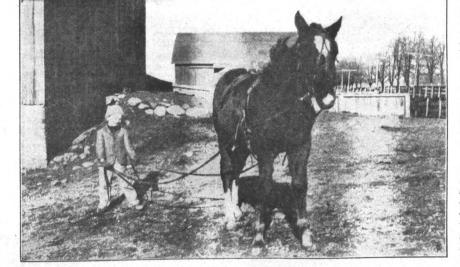
Plate camera manufacturers advertise the fact that professinal photographers use glass plates and that therefore you should. Its true that professional photographers use plates in their studios for their regular work because their dark-room is only a few feet from the spot where their camera stands. For their vacation trips they use Kodaks mostly, just the same as other folks.

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Six-year-old Don Reid and his Yearling Colt, Nettie.

A Tuscola county reader, Mr. William Reid, sends the postcard photo from which the above is reproduced. It is evident that he believes in getting those born upon the farm interested early in life, the picture showing his six-year-old son, Don Reid, exercising a yearling colt that has already been broken to harness. Don is the proud owner of this filly colt and calls her Nettie.

the building up of our babies, is manu- and fly back into the timber. There factured out of the crude materials a few scattering trees far out on the brought up from the bins in the soil. prairie, and also some clusters of bunch Notice, I said building up of our babies. grass, while far across, fully a mile away, Our plant babies are not born with full was a line of dark green timber marking frames like animals. We build up out the course of a creek that ran into the of the primary elements in the air, wat- river south of our farm. er and soil bins our full frames, our babies, and in many cases store food away back I began to crowd them a little more, in our roots for a future use. That is keeping my eye on the big white-winged why your father values the corn baby gobbler. With about 300 yards between and its store of food so highly. But I them and the edge of the woods I crowdam wandering. As you helped, you know how I came here and was buried with they acted as though they might turn other kernels of corn in this soil; but you do not know how I, a little bud-like body, was sleeping in that kernel on a ning straight ahead. Then I put my bed of endosperm wrapped in a leaf-like blanket soon to be awakened by the moisture and warmth found in Nature's apartments.

"When the walls of my cradle were broken I first stuck cut a toe, capped with a horny nail, determined to enter a bin and help myself to the elements found there, at the same time stretching my bud-like head to reach the light and air. What has happened to me survey "Wake up, Alice, mother wants you,"

cried James as he tickled her ear. HOW I CAPTURED A WILD GOBBLER.

BY ISAAC MOTES.

When a small boy on the farm it was my business in the afternoon to stop my plow a little earlier than my brothers, take out my pony and go after the cows, for we lived in the west where the range was free. Also it was my duty to drive up the calves every morning as soon as got up. So, every morning for years the first things I did were to dress, wash my face and hands, catch my plow pony, hop upon his back, sometimes with only a halter to guide him, and go after the which were generally not far calves, away.

One bright June morning I started on my daily morning ride just at daybreak. We lived a half mile from the river, where the grazing was very fine. Sometimes the calves went to the river bottom and did not come up until late unless I went after them. If I couldn't hear the bell close around the house I knew they had gone to the river, so this morning I rode straight for the river bottom. Pretty soon I heard the bell away up It was near sun-up when I stream. found them, so I hurried them along at a lively rate.

Our farm was in the edge of the woods, next to a wide prairie on the west. On the way home we went along rather near the edge of the prairie-about a hundred yards from it-in the edge of the thin woods ,and while passing along through these woods I saw a half dozen wild turkeys run out of the bushes ahead of the calves and go towards the prairie.

There were a few wild turkeys to be found near our farm, but it was difficult to get near enough to kill them with a shotgun, and this was the only kind of gun we had. My older brother George had gone turkey hunting several times in the early morning. By calling them he had managed to get several shots at them, but the woods were so thin that the turkeys could see him a long way off, and the small shot scattered so at long range that he had never been able to kill one

I had heard a cowboy, who stayed at our house one night, tell about running wild turkeys down on horseback on the plains. He said it was easy to do this if you found them in open country and you were on a good horse. When I saw the turkeys making for the prairie I left the calves and rode towards them. I did not crowd them too much, as I didn't want to make them fly up at first, but I kept close enough not to lose sight of them.

When they got to the edge of the woods, with the prairie in front of them, they turned up along the edge of the into the woods to the north. I circled pleased and very proud of me. around them briskly through the thin woods, and they turned out into the woods, and they turned out into the prairie. The bunch grass on the prairie was tall and afforded them some protec-tion, so they ran out unhesitatingly into the open space among this tall grass. Doubtless they expected that I would pass on up the river bottom. I almost lost sight of them bere, but as I rode on briskly towards the place where I knew they were I saw them going on towards the open prairie. I had noticed a big black gobbler with white spots on his wings. He was running through the tall wings. He was running through the tall grass about seventy-five yards from the woods. I kept in his direction, taking woods. I kept in his direction, taking Am well satisfied with my sewing ma-care not to go fast enough to scare them chine and would not be without it again. up just yet, as I feared they would rise

THE MICHIGAN FARMER.

When they were too far out to turn ed them still more, for up to this time back towards the woods at any time but as they got farther out they started runhorse to a run and began to gain rapidly on the turkeys. The big gobbler was When I came within perhaps ahead. sixty yards of them they scattered. Some rose and flew straight ahead. Among these was the gobbler. He was very big, and made a tremendous roaring sound with the flapping of his wings. You no idea, unless you have heard have them, how much noise a big wild turkey makes in flying.

When I saw him rise I put my horse to his greatest speed, leaning over his neck, shaking out the reins and s'apping him on the neck to encourage him. He seemed to realize what was expected of him, and I never knew him to run so fast in all his life. In spite of this, however, the gobbler gained on us frightfully, for he flew like a cannon ball. He was a big heavy turkey, and very fat. knew this by the loud noise he made in flying, and by his flying so near the ground. He had not risen high, and gradually came lower and lower, for a big turkey never flies high if he rises from the level ground, as he is so heavy. He flew perhaps 500 yards, then came to the ground with a thump and began running. I was at least 200 yards behind him when he struck the ground. I could not see him, but I had marked the direc tion well, and felt he would run straight ahead when he came down. As my horse was going at terrific speed it wasn't long before I got sight of him again, running along between the clumps of bunch grass. Pretty soon we were close on to him again. As we continued to gain, he tried rise and fly again. He flapped his wings terribly but couldn't get off the ground

By this time he had begun to run as though very tired, and wobbled from side to side. It didn't take me many seconds eatch up with him and pass him s yard or so to the left. I struck at him with a large stick which I carried, and he dodged off to the right and started in new direction. My well trained pony a stopped and turned in the same direction, and we were soon close upon him again. As we overtook and passed him I struck his head but missed him, and he turned in a different direction. When I turned my horse again the turkey was near a large clump of bunch grass. As we began to crowd him he commenced running around this bunch of grass, weaving from side to side as though about to fall.

He ran around the clump of grass three or four times, then made a dive into the grass head first and sank down with only his tail in view. I jumped off my horse, grabbed him by both legs and dragged him out. He flopped frantically and almost tore loose from me, tired as he was. didn't realize what a monstrous big turkey he was until I had him in my hands alive.

Holding him by the legs with my left hand I struck him on the head several times with the big end of the stick. Then climbed on my horse again, with the turkey in my right hand ,and galloped home with him dangling at my side.

The sun was an hour high when I got The calves stood bleating around home. the pen, the cows lowed inside, and mother stood in the kitchen door wondering what had become of me, but when she saw the big gobbler in my hand, and heard my story, she was very much

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THE MOTHER-IN-LAW'S SIDE OF THE CASE.

having been duly harvested, much curiosity is being expressed as to how the output pleases the mothers-inlaw. How things are going with Mrs. Mason since John married that Susie Dimples and tock her in with his mother housekeeper, an excellent manager and of talk about husband and wife being is varied by wonderment as to how Susie the prize-winning cook of your neigh- one, but the fact remains that you have is getting along with that particular Mrs. Mason.... However, the question is put, the thought behind it is the same, there is bound to be trouble between the two gestions from her. That isn't the point says things which hurt you, not because habit of thinking with the jokesmiths, that the home has always been hers and doesn't understand your temperament that mother-in-law spells trouble, she just naturally can't bear to see one and has no idea how her words sting. If Though why the jokers always make it of the neighbor's daughters coming in the truth were known you probably hurt the husband's mother-in-law who stirs and taking things out of her hands. Can her even more deeply than she does you, things up, when nine times out of ten it you blame her? What did you and your for added to the sting of your words is is the other way around, nobody seems mother feel when your brother's wife the knowledge that she is slowly but to know.

About once out of one thousand times you hear of a man having trouble with his wife's mother. But ninety-nine times out of one hundred it is the wife who has trouble with the husband's mother. Of course, there is the old theory to go on that a man and woman will agree better than two women, but the chief reason for these "in-law" disagreements is that both women are expecting trouble before hand, everybody has told them it would come, and neither one makes an effort to see things through the eyes of the other.

It is the usual custom to sympathize the young woman. But this time I with am going to take sides with the older The poor woman has had little one. enough sympathy, and while she may not deserve very much, still I think she has a few grounds for complaint on her side.

Why, the two women don't even look the man in the case from the same point of view. The wife regards him as a man, the wisest, best man in the world, who needs no advice from anyone because he is a fountain of wisdom him-(N. B.-I am speaking now of self. those brief days known as the honeymoon). The mother sees him as a boy she has had to watch over and chasten for the last 25 years in order to keep him from going plumb wrong. She has fondled and spanked him with the utmost impartiality, advised him and threatened him, flattered and ridiculed whichever would best bring about the end she desired. She held his hand when his first tooth was pulled; she knew all about the time he first stole his father's razor and crept furtively up to his room to come back with his face haggled in a fearful and wonderful manner, and she thrilled with pride when he cast his first vote, after she and his father had told him how to do it. She knows all his good points and all his shortcomings, though she wouldn't let a soul tell her he had one. In short, she knows he is a very human sort of boy, child she really thinks, and now to see some snip of a girl gush up at him and actually regard him as a man of sound mind and sober judgment is too much for the good It is small wonder that she can lady. not refrain from a snort of disgust.

And when the first question of importance comes up in the new family and he listens to that Susie Dimples, whom the mother has watched grow up from pigtail and pinafore days instead of going to his own mother for advice, I ask any fair minded jury of daughters-in-law, of her attending from home, and there beauty in the grard old fugues and symcan the mother be blamed for feeling abused? Of course she can't. If she were a real wise woman she would skillfully hide that hurt feeling and reflect that it is the way of the world, just the way the boy's father did 30 years ago. But the truth is that she is a very human woman and when she is hurt she shows it some way or other.

In the home, too, whether you move in with whom she could have a home. with her or she moves off the farm and leaves you and your new husband to it was decided to be best to send her to house alone, can she be blamed if she bearding school for girls, in a city 70 pitched and artificial, while, worst of all, polishes it.-Mrs. J. J. O'C.

HE usual large crop of June brides occasionally seems to interfere? Supposing she stays, can you blame her if you will disagree, not because either is she doesn't find it easy to sit down and very much wrong, but because you see some young woman lording it over haven't the same point of view. She the home that has been hers for years? doesn't understand you and you do not Perhaps you are a perfectly capable understand her. There is a great deal borhoed. You may be a much better an individuality all your own and your housekeeper than your mother-in-law, mother-in-law can not possibly underand naturally you would resent any sug- stand you as your own mother does. She women. We have all of us got into the in these disagreements. The fact is she wants to hurt you but because she came to the home and wanted to become surely being put on the shelf by younger mistress? You were a great deal quick- blood. er than your mother in telling her "not

to butt in," and here you are doing the balance that. For there is nothing hardsame thing in another home and you er than to feel that after years of serthink the woman you are pushing out vice you are no longer needed; that othshould not resent it.

be mistress in her own home. We aren't those hands are preferred to yours. looking at things through your eyes to-

day, but through the eyes of your moth- she manifestly burned to impress the er-in-law. We are trying to see if she simple folks "back home" hasn't some grievances.

There'll be a thousand things on which

And she should be forgiven much to er hands are ready to do the work which Now don't begin to say the wife should has for so long been yours and that DEBORAH.

with the fact that she was rapidly acquiring "culture."

Mother, too, soon discovered that the sweet, natural, unaffected girl who went away had come back an ultra-modern young lady, who understood just how to pad her instep so as to show off her patent leather slippers to the best advantage, how to remedy defects of figure by judicious lacing and "forms," and how to use powders of various shades on her wild-rose skin until she looked like a wax doll. She had also become an adept in the mysteries of manicuring and massage, and watched her round, babyish throat anxiously for incipient wrinkles. In short, the dear, whole-souled, unconsciously attractive child had become a simpering, superficial, self-satisfied miss, aping ways that she had never been taught to see in their true light, because they had never before touched her simple, wholesome life.

Needless to say, her "higher education" ended right there. Father and mother spent more sleepless, anxious nights, trying to decide how best to bring back the genuine sweetness they had unwittingly sacrificed. "We ought to have known better," they told themselves reproachfully, but the mischief was done, and they must undo it, if they could.

The next year she was sent back to the district school, ostensibly to review, but really to put her back into touch with the hearty, wholesome life of the girls and boys who had been her old companions. Her music was once more taken up under the patient, plodding teacher who had built the foundation of her musical education. New and atand she was allowed to plan a delightful and instructive course of reading for the whole family. The younger children were brought to the front, and "big sister" was asked to superintend their studies and amusements. In every possible way, the self-centered artificiality which she had acquired at school was combatted, and the healthful normality of her childhood restored.

And it was restored, but it took several years to do it. Of course, she might have outgrown her undesirable ways, even if allowed to go back to school. But nothing could recompense the woman that she would become for the loss of the natural growth of those years,

In securing the boon of wholesome womanliness for their daughter, the socalled higher education was perforce neglected, in so far as the routine of the schools was concerned. But so far as books, music, and an atmosphere of simplicity and refinement can furnish it, she is receiving a real higher education at home. Under their influence she is taking on the graciousness of genuine culture, and expanding into the rich luxuriance of thoughtful, unselfish womanhood. If, when she has grown older, she still desires a college course, she will find that these years have been spent in the best possible preparatory way.

The question of the girl's education is Without doubt, the best serious one. a attainable is her due, but whether the best is to be secured by sending her away from home while still in her middle teens is to be gravely doubted. The girl of that age needs her mother's watchfulness, her father's protection, and the quiet simplicity of the home atmosphere. After she has become mature in judgment, and has learned to rely upon her own ideas of right and fitness, she may safely be sent away from home, but not before. Books and music may easily be furnished her at home, and her education rounded out by their aid, without the risk and sacrifice incurred by sending her away to "finish" it.

If your meat grinder seems dull just "too sweet for anything." Her naturally grind a riece of scouring brick through wrestle with the problem of keeping a very select and highly recommended well-modulated speech had become high- it and see how well it sharpens and also

"FINISHING" THE GIRL'S EDUCATION. BY KATHARINE A. GRIMES.

serious problem arises in many miles away. without finishing.

the grades somewhere between the ages brood. of 13 and 15. To take a child out of school permanently at that early date ing with her the highest hopes, fondest seems reach of the immediate home influences loving group left at home. at that immature stage may easily prove the boys willingly accepted the curtailing far more disastrous. open to so many objections that thought- have a chance for school. Her enthusiful parents will hesitate before adopting astic letters after entering seemed to jusdle course might be discovered, it would the parents began carefully to plan so be a welcome suggestion to many a puz- that she might have the full four years zled father and mother.

Of course, there are girls and girls. Some are staid and sensible at seven- visit. They all wondered at the change teen, while others are childish and im- in her, and approved, the younger child mature even in the twenties. It is safe dren admiringly, the parents with doubt-to say, however, that very few girls un- ful reserve. There were some disapto say, however, that very few girls un- ful reserve. der eighteen should, even to gain an ed- pointing features, but she had been there ucation, be sent away from the protecting authority of the home. What is gained in one way is so easily lost in an- not judge fairly. It was not until she other, and far more vital particular, that came home for the long vacation that this plan should be adopted only under they were able to observe fully the efthe most necessary circumstances.

One case which occurred not long ago allowing girls to go away to school too man, which she took care to air on every young. A farmer's daughter, whose par- occasion. Close attention soon showed ents were most anxious to educate her that her musical taste, which had been the rural school at fifteen. The nearest by both mother and teachers, had so dehigh school was too far away to admit town. The place was rather rough, and there was a clique of girls in the high school, about her own age, who were known to be objectionable companions for her. Besides she would be compelled to board with comparative strangers, as there were no relatives or close friends

After long and anxious consideration,

A personal visit to the homes when the daughter of the family school impressed the mother with the outgrows the local school. This is es- desirability of the plan and she was aspecially true when the home is in the sured by the lady principal that only the country, or in a small town where the most carefully reared girls were admit- tractive books were bought for the home. educational advantages are limited to the ted. Although the expense was rather first eight or ten grades. In the major- heavy for people in their circumstances, ity of such cases, a good high school is it was cheerfully made up by parental beyond easy reach, and the only alter- self-denial, and even by the selling of natives seem to be sending the girl away stock that was really needed on the to "finish" her schooling, or keeping her farm. The girl's weifare must come first, at home and letting the education go declared both father and mother, looking The girl's weifare must come first, proudly at the bright, sweet-faced The average bright girl usually leaves daughter who was the oldest of their

So she "went away to school," carrywrong, but to send her out of anxieties, and proudest dreams of the Even the lit-Either course is of their pleasures that "sister" might either unqualifiedly. If some safe mid- tify the step that had been taken, and there.

Sne returned at Christmas for a brief such a little while, and her time at home was so short, that they felt they could fects of her year away from home.

They soon discovered that she had acmay be cited as a fair average result of quired a smattering of French and Geras well as possible, was "passed" out of carefully cultivated during previous years generated that she longer found any were several potent reasons why it was phonies of the masters, but went ito not thought best for her to board in spasms of delight over any light, trashy "drawing-room composition." Mathematics, in which she had once particularly shone, she had learned to "abhor," while history—except for a few semi-historical novels—was a "grind." Her English studies had consisted of learning to read "that perfectly lovely" Browning with an exaggerated accent, and in appreciating the fact that Shakespeare was

RECONCILED.

BY G. T. EVANS.

Today, because our baby Ruth (She's my new sister), got a tooth, Ma ran outside and hollered, "Oh, Ma ran outside and hollered, "Oh, Guess what there is to look at, Joe?" (That's not my father's biggest name, It's Joseph), and then father came A-flying in, and ma she said, "The darling's lying on the bed." And she and father went up stairs, Both putting on a lot of airs, As if they thought the baby was A little wonder, just because She had one tooth. And then they kissed Her mouth, and cheeks, and ears, and wrist;

wrist; And ma said, "Oh, you dear Blue Eyes, Your tootsie's such a sweet surprise!" They didn't know that I was there, But when I cried, "It isn't fair To make a fuss about one tooth; wrist; I've got just lots more teeth than Ruth, I counted them and there was nine, But you don't even look at mine!" They kissed me, too, and hugged me an outing. tight, And then I seemed to feel all right.

GIRLS WHO WORK TO SAVE MOTHER.

sewing. them, and their own wants are supplied than manufactured. only after hers have been looked after. If there are new clothes to be had mother gets hers first and the daughters take what is left. This is so directly opposed to the general rule that it is worthy of mention. This is not the elder woman's sugar and sift the soda with the flour. doings, either, but the girls insist on it.

"Furthermore the mother is not a slave to her children in that home," she con-'tinued. "It is the girls and not the mother who get up in the morning and prepare the breakfast. Most of the cooking and baking they also do and they do all their own sewing and mending." "But pray tell me," I inquired, "what

does the mother do in this unique household, where the daughters take so much of the work upon themselves?"

"The mother? O, she has enough to look after. The girls do not want her to work herself to death for her children the way so many mothers do. She looks after the house in general, does quite a bit of work in the flower garden and acts as counsel in whatever way is required. But as for going ahead with the house-work she doesn't do it." "Then I fell to thinking how nice it

would be if all mothers were as sensible as this one was and brought up their daughters to work and to wait upon mother instead of reversing the situation as is so commonly done now-a-days. Would it not smooth out the wrinkles and take years from the face of many a struggling, hard-worked mother? And would not the result be equally as good for the girls? What better development for a young life than to give it responsibility and the care for others? The self-sacrifice that so few of our young people exercise widens the sympathies and gives a broader scope to human interest which is invaluable in character building. Let us strive for more thoughtful daughters and fewer tired mothers.

HUMAN WELFARE QUERIES.

Household Editor:-1. Should one who is nervous clerk in a department store? 2. Kindly advise results from taking patent medicine. Should one who is not always strong physically continually take it or let nature take its course, as in nervousness, loss of appetite and sleep? 3. Do you think a nervous girl should learn dressmaking? 4. Does a dressmak-ing course by mail prove a success? 5. What is the best remedy for unstrung nerves? 6. How can I send fancy work patterns in for the paper?-M. R. 1. Nervous people are much better

Nervous people are much better 1. with some employment where they can obtain plenty of pure air. Some departments in a store do not require exhausting work, but the long hours and bad air would not help a nervous person.

2. It is inadvisable to take any patent medicine unless told to do so by a re-liable physician. Because one person has Dress Having Three-piece Skirt. Cut in drug it does not follow that another would be. It is not well to 56-yard of 27-inch all-over. "let nature take its course" when one is cents. "let nature take its course" when one is cents. No. 5821, Ladies' and Misses' Bathing nervous and suffering from insomnia. Suit. Cut in 8 sizes, 30 to 44 inches bust. Better go to a doctor who knows his Size 36 requires 442 yards of 44-inch business and follow his directions im-goods, 34-yard of 24-inch contrasting

as well cooked cereals, beefsteak, lamb chops, the white meat of chicken, bacon, milk and eggs, white or brown bread, and no tea, coffee, candy, cake, pastry or stimulants of any sort. Take plenty of gentle exercise in the open air, don't worry, and work as little as possible. 6. Send a good clear photograph or a

THE MICHIGAN FARMER.

good hand drawing of your fancy work, with carefully written instructions for making it. Write only on one side of the paper and use a typewriter is possible, though this is not necessary if

Household Editor:—I am going with a party to Put-in-Bay. What would you advise me to wear, a foulard dress or a wash dress? I have a new foulard I want to wear, but my mother thinks I should wear a wash dress. Which is right?—Molly. By all means

right?—Molly. By all means wear the wash dress for

Household Editor:-Can you give me a formula for making baking powder?-

New Cook. Sift one pound and two ounces of cream of tartar, a half pound of soda and one-fourth pound of cornstarch to-BY E. E. R. gether five or six times and put in an HERE go the two best girls I know air-tight can. It would be better to of," said my hostess one afternoon make only about a quarter of this proas we sat on the porch with our portion, as home-made baking powder "Their mother comes first with loses its strength much more quickly

Household Editor:—I have a cake recipe which calls for lemon juice but it does not tell when to put it in. Can you suggest the right way to mix the cake? —Mrs. M.

Mix the lemon juice with the eggs and Household Editor:--My little girl is very funny about her eating. She is three years old and never eats anything unless I coax her. She drinks a great deal of milk, and seems to feel well. What would you advise me to do?--Young Mother. So long as she drinks plenty of milk

and seems to feel well I should not wor ry much about her. Milk is a food and perhaps your child is not ready for any other sort. See that the food she does eat is suitable to her years, bread or toast, eggs, well cooked cereals, no candy or rich desserts and but little fruit and vegetables. When she is ready for other foods she will probably take them.

To freshen pork cut the slices and place in a basin of buttermilk two or three hours before you wish to fry it. remove from the buttermilk and roll in This way you flour and fry as usual. save all the fat and the pork browns nicer.-I. T. F.

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Age 16 requires vards of 36-inch materia Price, 10

Better go to a doctor who knows his Size 26 requires 414 yards of 44-inch goods, %-yard of 24-inch contrasting goods. Price, 10 cents.
No. 5826, Ladies' Surplice Dressing Sack. Cut in sizes 32, 36, 40 and 44 inches bust measure. Size 36 requires 24 yards of 36-inch goods, 54 yards of insertion. Price, 10 cents.
No. 5408, Ladies' Four-gored Skirt. Cut in 5 sizes, 22 to 30 inches waist measure. Size 24 requires 2% yards of 36-inch material. Price, 10 cents.
No. 5408, Ladies' Four-gored Skirt. Cut in 5 sizes, 22 to 30 inches waist measure. Size 24 requires 2% yards of 36-inch material. Price, 10 cents.
No. 5408, Ladies' Four-gored Skirt. Cut in 5 sizes, 22 to 30 inches waist measure. Size 24 requires 2% yards of 36-inch material. Price, 10 cents.
S. The best remedy for unstrung nerves
The best remedy for unstrung nerves 2% yards 36 inches wide, %-yard of 18-inch all-over. Price, 10 cents.



Anty Drudge gives good advice

Mrs. Cropps-"Now, Mame, there's no use going on that way about your white petticoats. I can't parboil myself to pieces every Monday just because you go to parties and dirty your starched things. That's to parties and dirty your starched things. Th plenty good enough to wear on the straw ride."

Anty Drudge-"Why, Mrs. Cropps, your Mame wants to look as nice as other girls, and she can, too, and you won't have to steam and boil and slave to do it, either. Just get a cake of Fels-Naptha Soap and use cool or lukewarm water. Why, Mame could wash her own skirts in no time herself."

Perhaps your daughter wouldn't want to leave the farm, if the work was not so hard. Young folks get tired the same as older people.

If you could lighten Monday's work, wouldn't it make the whole week easier?

If you try Fels-Naptha Soap once. you'll find the secret. Fels-Naptha Soap means as much to the women-folks on the farm as any new invention means to the men-folks. Fels-Naptha Soap washes everything-overalls, blankets, the finest white goods and the softest flannels-without hard rubbing or boiling. Directions are clearly given on the red and green wrapper. For full particulars, write Fels-Naptha, Philadelphia

Ordinary Lather Feels Heavy Copyright 1913 **JAP ROSE** Bubbly Lather is Light As Air These gleaming bubbles instantly absorb every atom of dust, dirt and irritating matter. They cleanse the pores and purify the entire skin tissue so it feels far cleaner, softer and smoother. JAP ROSE is superior soap, made in a superior way and has a superior effect. The lather springs forth instantly and easily at the slightest rub in hardest water, hot or cold. Use it no other way awhile. You will notice great complexion im-provement. Start using **JAP ROSE** today. Be convinced of its superiority. All Dealer's Sell Jap Rose Soap Large Transparent Cake for 10c Special Trial Offer: Send a 2c stamp and your dealer's name for a Free trial cake of JAP ROSE Soap. JAMES S. KIRR & JAMES S. KIRK & COMPANY, 213 MICHIGAN ST., CHICAGO CAN LAY IT. Rubber Roofing Warranted For Twenty-Five Years. FREIGHT PAID Taim, except Texas, Okla... ONE-PLY ---- Weighs 35 lbs., 108 Square Feet, \$1.10 per roll. TWO-PLY --- Weighs 45 lbs., 108 Square Feet, \$1.30 per roll. THREE-PLY --- Weighs 45 lbs., 108 Square Feet, \$1.50 per roll. TERMS CASH: We save you the wholesalers' and retailers' profit. These special prices only hold good for immediate shipment. Indestructible by Heat, Cold, Sun or Rain. Write for FREE SAMPLES or order direct from this advertisement. Satisfaction guaranteed or money refunded. We refer you to Southern Illinois National Bank. Century Manufacturing Co., Dept. 542 East St. Louis, Ills.



Our Motto—"The farmer is of more consequence than the farm, and should be first improved."

THE AUGUST PROGRAMS.

State Lecturer's Suggestions for First children. Meeting. 6. Fin Song, by Grange.

Song, by Grange. Are our local laws being enforced as they should be? If not, what can the Grange do to help? Old time music. Three reasons for rotation of crops, by three men in three-minute talks. Progress in fighting flies, reports on success or failure, by five women and two men. He Grange. Be always to be at and invitations ed to those per now members. AMONG Th

have been decided upon. Besides these, there are a number of minor details which have weight in the final success or failure of the day which it is not out of place to mention:

1. As much of the desirable outcome of a rally centers upon the presence of the advertised speakers, it is of utmost importance that no slip occur in the arrangements for such helpers. Explicit directions as to date, place and how to reach the rally should be sent well in advance to the speakers engaged and an acknowledgement received, in order that each party may know that the other understands the plan. In case of an emergency at the last, the speaker should be expected to make desperate efforts to be present, going to extra expense and exertion on his own part if necessary, since nothing is more disastrous to a Grange of about effort than failure at this point.

A program being a strong feature of a Grange rally, it is essential that live topics be handled by the speakers, and that in a concrete manner without overmuch rambling talk and digression. This is not always an easy thing for a program-maker to manage, but it is an aim to keep in mind. There is no dearth of live topics for discussion this season; the only trouble will be to select the more important ones. The question of equal suffrage should be upon every program, whatever other subjects are brought forward, as it is not only a "live topic" but one which the Grange has especially espoused during the present campaign season.

Stirring music, and lots of it, seems as essential at a rally as a good dinner. Get a hustling, energetic leader—or be one yourself—to induce everybody to This is really not so difficult if sing. familiar airs are chosen and verses or choruses repeated until people catch the spirit of the "general sing." It pays, always and richly. The catchy, suffrage songs set to old tunes meet this need admirably and provoke thought.

3. Preparation of the grounds play no inconsiderable part in the outcome of the day. Clearing up a little each year, if the picnic is an annual affair, and adding conveniences and equipment gradually is the best way. Provision for needs of people and horses should be made, looking to their eating dinner comfortably and spending a delightful day in the open. One important item, all too often overlooked, is to place the seats near enough to the platform. Voices are swept A. away in open air by even a slight wind.

be provided for in effective decoration. interesting, but we will try in the few The simpler this is, the more it will moments assigned to us this afternoon comport with the beauty of the outdoors. to review a few of the many pleasant Nothing excels a large "Old Glory" hung events that have transpired within the over the entrance, backed by the living 40 years of existence of this organization green of the trees. Add, this year, some to make this history interesting. striking yellow suffrage banners and streamers, and little else need be done, who were thoroughly interested in agriunless it be to bank cut branches of culture in the vicinity of Mason, thought trees about the platform.

whole-souled, joyous sociability. I would organization, and through the columns have a committee on reception, self-ap. of the Ingham County News, then edited pointed or otherwise, meet people as by Kendall Kittredge, there was a call they gather, direct them to the assign- for those interested to meet at the edi- Michigan Farmer the dates of picnics ments of the grounds and make them ac- tor's sanctum Saturday, Jan. 27, 1872. and gatherings held. Secretaries will quainted with any strangers. More than Less than one dozen men met, but a kindly advise with date and place at this, someone should be on the outskirts committee, consisting of A. M. Chapin, least 10 days in advance.

of the audience during the program to H. A. Hawley and G. W. Bristol, was lead those who prefer to visit to a dis- appointed to perfect an organization. tance and, in an inoffensive way, to At an adjourned meeting, articles of maintain order and quiet within hearing association were adopted and the followdistance of the platform. All amuse- ing eleven gentlemen became charter ments should precede or follow the pro- members: A. M. Chapin, H. A. Hawley, gram proper and by no means be carried A. F. Wood, Enos Northrup, Allen Rowe, on at the same time. More attention Frank White, D. C. Smith, Wm. H. Rayneeds to be paid to games and amuse- ner, L. H. Ives, K. Kittredge, G. W.

the Grange. Because of this, there ought always to be at hand application blanks, and invitations to join should be extended to those persons present who are not Cady; vice-presidents, A. F. Wood, H. JENNIE BUELL.

AMONG THE LIVE GRANGES.

Success or failure, by five women and two men. How to keep butter hard without ice. Song, "Help it On," No. 108 in Grange Meiodies. Newaygo Pomona was pleasantly en-tertained by Sitka Grange in June. A well prepared program, a social time and meals fit for a king were among the many pleasant features of this meeting. "Units of Soll Fertility" was given at-tention by M. J. Thompson, of U. S. De-partment of Agriculture, who explained tool. Miss Becker, county commissioner of schools, put forth some forceful thoughts on some of our greatest needs in the rural school. Another important topic, "Our duty to society and school." was well handled by Mrs. George Wa-ren. "How the farm may educate the an's Suffrage" were also given attention at this session. Fremont Grange will en-train Pomona on the first Tuesday and Wednesday in October.—Sophia Kimbell, Scretary.

Two Meetings of Branch Pomona.

Two Meetings of Branch Pomona. Branch Pomona held a very success-ful meeting with Quincy Grange in June. Notable features of the program were the welcoming address by Miss Leona Stanton, an able address by Superintend-en Robinson, on the subject, "Is Agricul-ture the True Basis of Prosperity," a fine talk by W. Glenn Cowell on primary election. and an able paper by Mrs. Me-Cartney, of Girard Grange, on "Does woman's invasion of the business field improve home conditions?" Butler and Quincy Grange orchestra furnished music for the occasion. The Granges repre-sented were Girard, Butler, Bronson, Ba-tavia, Unity, Coldwater, Four Towns, with Quincy out in full force. Quincy

for the occasion. The Granges repre-sented were Girard, Butler, Bronson, Ba-tavia, Unity, Coldwater, Four Towns, with Quincy out in full force. Quincy furnished a fine banquet for 260 hungry patrons, which was served in fine shape, everybody receiving prompt attention and an ample supply of all the good things of the season. The Granges of Branch county now have a membership of about 1,350, and most of them are in a flourishing condition. The Pomona patrons of the county were again entertained on Thursday, July 18, this time by Unity Grange at the beautiful farm home of Unity's mas-ter. Bro. M. M. Garrett. The closed bus-iness session was held in the spacious parlors, after which a feast was en-joyed in the shade of the well kept or-chard, where a table accommodating 109 persons had been placed. After more than 200 had been served a good literary program was rendered, the feature of which was the able presentation of equal suffrage arguments by Sister Woodman, chaplain of State Grange, and Rev. Jones, of Bronson. Unity is one of the young-est Granges in the county and is to be congratulated on the success of this its first effort in the way of entertaining the patrons of the county. The Grange and its master were given a rousing vote of thanks.



4. The esthetic side of the day should of facts, usually considered dry and un-

5. Every rally should bubble over with and the community to have a farmers'

ments in which all can join-particularly Bristol. Of these gentlemen, nine have finished their work. Messrs. Ives and 6. Finally, the rally is designed to feed Bristol are with us today. All are represented in our membership today but two.

The officers elected were: Pres., D. L A. Hawley; rec. sec., Frank White; cor. sec., L. H. Ives, treas., Wm. H. Rayner The meetings continued each Saturday throughout the winter, with a member. ship of 23. At the close of the second winter 42 men had become members, and this was the order of business:

Reading of minutes of last meeting. 1.

- Discussion of markets and reports. 2. Inquiries and answers. 3.
- Results of experiments. 4.
- Replies to letters of inquiries. 5
- Discussion of stated subjects. 6. Miscellaneous. 7

The year 1874 was an eventful one. The regular weekly meetings were held throughout the winter season, and during the summer six homes were opened for the entertainment of the members and their families, those of Messre Wood, Sommerville, Chapin, Ives, Hawley and R. F. Griffin.

In 1875 the Club made itself famous besides the regular meetings, by holding poultry show, and later a plowing a match at the farm of R. F. Griffin. There were ten entries and only one three-horse team.

In 1876 another poultry show was held

In 1878 farmers' institutes began being held, and there were many under the auspices of the Ingham County Farmers' Club, and the old court house to be filled with interested farmers and their families, and really we can boast just a little over the state institutes that are held now annually at Mason.

This Club also held many seed shows with profit.

At the beginning of these, being on Arbor Day, this Club put itself on record by planting a tree on the court yard with appropriate exercises, Hon. O. M. Barnes giving the principal address.

In passing I just want to mention that \$25 prize won by this body at the state fair at Detroit in September, 1880, when Nettie Wood put into shape for exhibition 100 samples of wool of different breeds furnished by ten men.

(Continued next week).

CLUB DISCUSSIONS.

CLUB DISCUSSIONS. CLUB DISCUSSI

NOTICE TO GRANGES AND FARMERS' CLUBS.

We will be pleased to publish in the





For Sale, Farms of all sizes, at all of soil. WISNER & GUTHRIE, Eaton Rapids, Mich. To Buy, Sell or Exchange Property any kind, any Northwestern Business Agency, Minneapolis, Minn.

We Sell Farms in Oceana, greatest fruit Co. in U.S. Write for list, etc. HANSON & SON, Hart, Mich.

Beautifully Illustrated Booklet about Delaware, the Juscious peaches, strawberries, and of ideal homes. Address State Board of Agriculture, Dover, Delaware. For 75c Silver we will mail you 625 names and address Valley which mostly want to sell or exchange, also de-scription, price, terms of some of these ranches, H. W. Dixon, P.O. Box 186, Oak Park, Sacramento, Oalifornia.

WHAY PAY RENT when you can buy the Best Land in Michigan at from If to 12 an acre near Saginaw and Bay City. Write for may and par-ticulars. Clear title and easy terms. Staffeld Broe., (owners) 15 Merrill Bldg, Saginaw, W. 8. Michigan.

CENTRAL MICHICAN. Write for list of stook and Grain Farms, also our booklet "Facts about Central Michigan", giving complete informa-tion regarding the finest farming district in Central Michigan. HOLMES REALTY CO., Lansing, Mich.

Rich Potato Farm Near R. R.

Rich Potato Farm Near R. R. 80 Acres, \$4000, Easy Terms 50 acres of level fields in rich loam soil that raises from the set of the set of the set of the set of the set into the set of the set of the set of the set of the set into the set of the set of the set of the set of the set into the set of the set of the set of the set into the set of the set of the set of the set into the set of the set of the set of the set into the set of the set of the set of the set into the set of the set of the set of the set of the set into the set of the set of the set of the set of the set into the set of the set o

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THE MICHIGAN FARMER.

MARKETS

DETROIT WHOLESALE MARKETS.

July 31, 1912.

July 31, 1912. Grains and Seeds. Wheat.—Conditions affecting the wheat trade gave the market a firmer posi-tion than it occupied a week ago and prices for both cash and future deals are ruling from one to two and a half cents higher. Much confusion was started by the report of black rust in North Dakota. the report of black rust in North Dakota. The upturn in prices caused by this re-port was augmented by similar reports from other sections in this country and also from Saskatchewan. Later reports modified somewhat the extent of the scare and gave the market a slightly eas-ier tone. Abroad there is a firm tone with cash wheat finding an active de-mand. The visible supply showed an in-crease for the first time this season, it amounting to 72,000 bu. A year ago the price for No. 2 wheat was 88½c per bu. Quotations for the week are as follows: No. 2 No. 1 Red White Sent. Dec

| | 110. 4 | TAO' T | | |
|-----------|---------|---------|----------|---------|
| | Red. | White. | Sept: | Dec. |
| Thursday | | 1.02 | 1.03 1/4 | 1.051/4 |
| Friday | 1.03 | 1.02 | 1.04 1/4 | 1.061/4 |
| Saturday | 1.04 | 1.03 | 1.04 1/4 | 1.061/4 |
| Monday | 1.041/2 | 1.031/2 | 1.04 3/4 | 1.0634 |
| Tuesday | 1.051/2 | 1.041/2 | 1 041/2 | 1.061/4 |
| Wednesday | 1 07 | 1.06 | 1 0414 | 1 061/ |

| | | | | | | | | | Ν | o. 3 | No. 3 |
|----------|--|---|--|--|--|--|--|--|---|-------|--------|
| | | | | | | | | | | | Yellow |
| Thursday | | , | | | | | | | | 76 | 78 |
| Friday . | | | | | | | | | | 77 | 79 |
| Saturday | | | | | | | | | | 77 | 79 |
| Monday | | | | | | | | | | 761/2 | 781/2 |
| Tuesday | | | | | | | | | | 761/2 | 79 |
| Wednesd | | | | | | | | | | 761/2 | 79 |

Oats.—This cereal shows a greater ad-vance in price than either wheat or corn. Harvesting is progressing rapidly and the outlook for a heavy yield is no more promising than it has been. The visible supply shows a decrease of 641,000 bu. A year ago the price for standard oats was 41½c per bu. Quotations for the week are as follows: was $41\frac{1}{2}$ c per bu. week are as follows: Standard No.3

| Standard. | 140.9 |
|--------------------------------------|--------|
| W | Thite. |
| Thursday | 60 |
| Friday 61 | 6014 |
| Saturday 61 | 601/ |
| Saturday , 01 | 00 1/2 |
| Monday 61 | |
| Tuesday 601/2 | 601/2 |
| Wednesday 61 | 601/2 |
| Beans Cash beans rule the same | as a |
| week ago. October quotations have | |
| tuated a little, a drop of 2c last F | |
| was regained on Saturday, only t | |
| | |
| lost again Monday. The new cro | |
| promising. Quotations are as follow | |
| Cash | Oct. |
| Thursday\$2.65 | \$2.25 |
| Friday 2.65 | 2.23 |
| Thursday | 2.25 |
| Monday 2.65 | 2.23 |
| Tuesday 2 65 | 2.23 |
| Wednesday 2.65 | 9 99 |
| | |
| Clover Seed The quotation for (| |
| ber clover seed remained steady | until |

Tuesday of this week when a 10c de-cline was agreed upon. The market is quiet and quotations are as follows: Prime Oct. Thursday \$9.85

Friday Saturday Monday 9.85 Monday Tuesday 9.85 Wednesday **Rye.**—This cereal remains steady at st week's quotation, which is 73c per 1. for No. 2. The price is merely nom-

10 per ton. Potatoes.—The advanced prices of last week have improved under a good de-mand. Michigan offerings are of small volume. The ruling price for southern offerings is \$3 25 per bbl. Provisions.—Family pork, \$19@20.50; meroemeter headen

OTHER MARKETS.

Grand Rapids. Thursday1.03 1.02 1.03½ 1.05½ Grand Rapids. Friday1.03 1.02 1.04½ 1.06½ Monday1.04 1.03 1.04½ 1.06½ There were 450 loads of fruit and pro-duce on the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the city market Tuesday morn-ing, including about 60 loads of potatoes, the corn market last week. The in-huckleberries, \$1.60@2. Vegetables were thuence of an advancing wheat market bringing the following prices: Turnips, was felt and weather conditions have as it should, while in Kansas and Okla-not been ideal for pushing the new crop cumbers, 30c; peas, \$1.50; beans, 75c; parsley, 20c; sweet corn, 12½c; celery, homa the extremely hot weather has 15c. Hay is bringing \$14@15, Jobbers damaged the prospects for a bumper are paying the country trade 18c for eggs crop. There is little trading on the local market. The price for No, 3 corn a year worth 10c. Old wheat is quoted at \$1. ago was 66c per bu. Quotations are as No. 3 No. 3

Chicago.

Wheat.-No. 2 red, \$1.00½@1.02; Sept., 93¼c; Dec., 95¼c. Corn.-No. 3, 72½@73c; Sept., 66c; Dec.

57c 12 Oats -No. 2 white, 47@50c; Sept., 33c;

57c. Oats --No. 2 white, 47@50c; Sept., 33c; Dec., 34¼c.
Futter.-Volume of business fair at prices which have ruled for several weeks past. Quotations: Creameries, 23@25c; dairies, 21@24c per lb.
Eggs.-Last week's advance on miscel-lancous lots has been lost, while the bet-ter grades have advanced ¼c. Quota-tions: Firsts 18c; ordinary firsts, 16¼c; at mark, cases included, 15@16e per doz.
Potatoes.-Receipts show a heavy in-crease and the market is easier. Early Ohios from Kansas and Missouri are quoted at 75@77c per bu; fillinois stock, 65@72c; Minnesotas, 70@75c.
Beans.--Market quiet with last week's lower values ruling. Quotations are: Fea beans, choice, hand-picked, \$2.85@ 2.88 per bu; prime, \$2.75@2.78; red kid-neys, \$2.50@2.60.
Hay and Straw.-No changes of conse-quence since last week. Quotations are: 2.88 per bu; prime, \$2.1502.16, 100 min may and Straw.—No changes of consequence since last week. Quotations are: Timothy, choice, \$23.024; No. 1, \$21.022; No. 2 and No. 1 mixed, \$17.018.50; clover, \$7.010; No. 2 and no grade, \$5.09; alfalfa, choice, \$13.50.014; No. 1, \$12.012.50; No. 2, \$10.0011. Straw—Rye, \$10.50.0211; wheat \$7.50.08.50; oat, \$7.50.08.50;

New York.

New York. Butter.—Prices are substantially the same as a week ago. Demand is largely for current consumption. Quotations are: Creamery, special extras, 27@27¼c; do. firsts. 26@261½c; do. seconds, 25@25½c; factory, current make, firsts, 22@23c lb. Eggs.—Market is steady Demand and supply are normal and prices remain un-changed. Fresh gathered extras, 23@24c; extra firsts. 20@22c; firsts, 18½@19½c; western gathered whites, 20@24c per doz. Poultry.—Dressed, unsettled. Western broilers, fresh killed, 21@27c; fowls, 14½ @17c; turkeys, 16@17c per lb.

THE LIVE STOCK MARKETS. Buffalo.

THE MICHIGAN FARMER.

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mand. Michigan offerings are of small volume. The ruling price for southern offerings is \$3.25 per boll.
Provisions.—Family pork, \$19@20.50; mess pork, \$19: clear, backs, \$19.60@21; harms, 15c; briskets, 12@12½c; shoulders, 11½c; baco, 14
@Tide; pure lard in therces, 11½c; kette rendered lard, 12½c per b.
Dairy and Poultry Products.
Butter.—No changes of account have appeared in conditions affecting the built stow of the storage people, while the output is about normal for 1000, \$7.40@7.56; butcher steers, 1.550@6.5; light butcher steers, 2.50@6.5; prices of the same as given a week ago, current receipts, candled, being quoted at 20½c; stock heifers, \$3.50@6.5; light butcher heifers, \$2.50@6.5; best butcher buils, \$6@6.25; best butc

AUG. 3, 1912.

Chereise
(10): Severe
(10): Seve

Holstein Breeders Hold Picnic,

The annual picnic of the West Michi-gan Holstein Breeders' Association will be held at the Long Beach Stock Farm on the shores of Gull Lake, near Augus-ta, Mich., Wednesday, August 7. It is re-quested that the breeders bring their wives and families to enjoy the outing and program.

Receipts, 1,978. Market steady at Wed-nesday's prices; 10@15c lower than last week. We quote: Extra dry-fed steers, \$7.50 @8; steers and heifers, 1,000 to 1,200, \$6.25@7; do. 800 to 1,000, \$5@6; grass steers and heifers that are fat, 800 to 1,000, \$5@6; do. 500 to 700, \$4.55@5; choice fat cows, \$4.75@5.25; good fat cows, \$4.50; common cows, \$3.25@3.75; cancers, \$2@3.25; choice heavy bulls, \$4@4.25; stock bulls, \$3.50@4; choice fed-ing steers, 800 to 1,000, \$4.75@5; fair do. 800 to 1,000, \$4.50@4.75; choice stockers, bio to 700, \$4.50@4.75; choice stockers, 500 to 700, \$3.75@4.25; stock heifers, \$3.25@4; milkers, large, young, medlum age, \$40@c0; common milkers, \$20@30. Ree Com. Co. sold Sullivan P. Co. 1 bull weighing 1,480 at \$5, 5 cows av 920 at \$5; to Newton B. Co. 23 butchers av 500 at \$4, 2 steers av 1,355 at \$7.75, 2 do av 1,490 at \$7.75, 5 cows av 972 at \$4.25; do av 813 at \$3.25, 19 butchers av 707 at \$5.50, 30 do av 683 at \$5.5; to Sullivan P. Co. 5 cows av 836 at \$4.50; 1 ad weigh-ing 760 at \$3, 2 do av 1,060 at \$4, 4 steers av \$67 at \$6, 1 do weighing 570 at \$4; to Regan 11 butchers av 510 at \$4; to Goose 2 do av 357 at \$3.50; to Newton B. Co. 6 butchers av 460 at \$4.55, 1 do av 846 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 846 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 2 do av 866 at \$3; to Sullivan P. Co. 3 teigers av 960 at \$4.25, 11 do av 670 at \$4.75, 4 cows av 970 at \$4; to Goose 7 butchers av 421 at \$3.50; to Fry 11 do av 730 at \$4.75, 9 do av 617 at \$4.65; co at \$2.52; cows av 735 at \$3.25, 4 do av 950 at \$4.25. Bishop, B. & H. sold Sullivan P. Co. 3 steers

Nich, B. Co. 1 heifer weighing 650 at 83.25, 2 cows av 735 at \$3.25, 4 do av 950 at \$4.25. Bishop, B. & H. sold Sullivan P. Co. 3 steers av 983 at \$6.10, 4 cows av 1,137 at \$4.75, 2 bulls av 1,160 at \$4.50, 2 cows av \$40 at \$3, 3 do av 893 at \$4, 4 do av 900 at \$3.10, 3 bulls av 870 at \$4; to Bresna-han 6 cows av 943 at \$25, 11 stockers av 540 at \$3, 3 cows av 1,116 at \$3.75, 1 can-ner weighing 550 at \$3, 2 do av 840 at \$2.75, 1 cow weighing 1,060 at \$5.25, 6 do av 965 at \$4.25; to Kamman B. Co. 6 butchers av 883 at \$5.75, 2 steers av 1,060 at \$7, 7 do av 796 at \$5; to Newton B. Co. 12° butchers av 768 at \$4, 3 cows and bulls inv 810 at \$4, 1 cow weighing 960 at \$3.02 steers av 1,060 at \$3.02 steers av 825 at \$5.50, 15 butchers av 800 at \$6, 2 cows av 1,015 at \$5, 5 butchers av 825 at \$5.50, 15 butchers av 800 at \$6, 2 cows av 1,015 at \$5, 5 butchers av 825 at \$5.50, 15 butchers av 747 at \$4.25; to Parker, W. & Co. 18 steers av 1,035 at \$7.50, 6 cows av 981 at \$3.75, 2 bulls av 920 at \$4.25, 5 do av 1,040 at \$4.50; to Applebaum 7 butchers av 747 at \$4.25; at \$6; to Austin 2 stockers av 525 at \$4.50. Spicer & R. sold Bresnahan 9 cows av \$901 at \$3.85, 17 butchers av 713 at \$5.25; to Parker, W. & Co. 27 steers av 746 at \$4.50, 4 bulls av 880 at \$4.50. Spicer & R. sold Bresnahan 9 cows av 555 at \$4, 4 butchers av 637 at \$3.50, 7 do av 796 at \$5.50, 1 bull weighing \$20 at \$4.50, 4 bulls av 880 at \$4.50, 4 do av 525 at \$4, 4 butchers av 637 at \$3.50, 7 do av 740 at \$5.50, 1 bull weighing \$20 at \$4.50, 2 do av 640 at \$4, 1 do weighing \$50 at \$4.50; to Schlischer 9 butchers av 512 at \$4.50; to Schlische

av 182 at 80.16, 3 do av 300 at 90, to matter 88.05, 15 stags one-three one 80. Solo at 800 at 800 at 900 at 900 at 800 at 900 at 800 at 900 at 800 at 900 at 800 at 8000 at 8000 at 800 at 8000 a

Weeks sold same 5 cows at 600 at \$3.20. Lowenstein sold same 4 cows av 930 at \$3.25, 9 do av 1,033 at \$4.50. McLaughlin sold Hammond, S. & Co. 2 bulls av 1,160 at \$4.55. Same sold Newton B. Co. 3 cows av 983 at \$4, 10 butchers av 783 at \$4.50. Allington sold Battkowsky 6 cows av

Allington sold Rattkowsky 6 cows av 833 at \$4.10.

833 at \$4.10.
Veal Calves.
Receipts, 912. Market strong at Wednesday's and last week's prices. Best, \$9@10; others, \$4@8.

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at \$8.35. Long sold Bray 11 av 130 at \$7, 10 av 158 at \$9.50. Adams sold same 2 av 170 at \$10.

Auams sold same 2 av 170 at \$10. Sheep and Lambs. Receipts, 2,808. Market 50c higher than last week's close; steady with Wednes-day. Best lambs, \$6.50@7; fair to good lambs, \$5.50@6; light to common lambs, \$4.50@75; yearlings, \$4@4.75; fair to good sheep, \$3@3.50; culls and common, \$2 @2.50. Haley & M cold T

Tambs, so. 300, 9; nght to contribut latings, \$4.500, 95; yearlings, \$400, 4.75; fair to good sheep, \$300, 50; culls and common, \$2 00, 250. Haley & M. sold Thompson Bros. 1 buck weighing 170 at \$3.50, 12 lambs av 45 at \$7; to Bray 34 do av 55 at \$5, 100 do av 68 at \$6.55; 15 sheep av 115 at \$3.25; to Newton B. Co. 2 sheep av 115 at \$3.25; to Newton B. Co. 2 sheep av 120 at \$3. 20 lambs av 55 at \$6; to Mich. B. Co. 14 do av 60 at \$5, 46 do av 60 at \$6.75; 51 do av 90 at \$3.25, 2 do av 125 at \$3; to Thompson Bros. 4 do av 77 at \$2, 13 do av 95 at \$3. Bishop, B. & H. sold Mich. B. Co. 6 sheep av 100 at \$3.25, 30 yearlings av 80 at \$4.75, 7 sheep av 110 at \$2.75, 4 do av 80 at \$2.75, 15 lambs av 57 at \$6.50, 69 do av 80 at \$2.75, 15 lambs av 57 at \$6.50, 69 do av 80 at \$2.75, 15 lambs av 57 at \$6.50, 69 do av 80 at \$2.75, 15 lambs av 57 at \$6.50, 69 do av 80 at \$2.75, 16 lambs av 56 at \$4.50, 20 do av 70 at \$6.50, 20 do av 85 at \$6.50, 102 do av 70 at \$6.50, 20 do av 85 at \$6.50, 102 do av 70 at \$6.75, 28 do av 65 at \$4.50; to Thompson Bros. 15 lambs av 65 at \$3.50, 1 buck weighing 150 at \$2.50; to Sullivan P. Co. 10 sheep av 100 at \$3.25, 21 lambs av 50 at \$4.50, 26 do av 50 at \$5, 7 do av 70 at \$6.75, 28 do av 65 at \$4.650, 22 do av 70 at \$7; to Mich. B. Co. 22 do av 55 at \$5; to Thompson Bros. 14 sheep av 110 at \$3; to Sullivan P. Co. 65 lambs av 68 at \$6, 49 do av 70 at \$6.50; to Bray 65 sheep av 85 at \$3.26 do av 53 at \$4.50; to Nagle P. Co. 37 sheep av 53 at \$3.; to Harland 32 lambs av 65 at \$4.50; 54.50; to Fitzpatrick Bros. 14 do av 67 at \$6.50; 55.10 As \$5.50; 2 sheep av 170 at \$3. 3 do av 95 at \$3.50; to Vosso 26 lambs av 48 at \$5.50; to Mich B. Co. 19 do av 50 at \$5, 11 lambs av 55 at \$5.50; to Barlage 10 sheep av 90 at \$3, 14 lambs av 60 at \$5.50; To Com. Co. sold Hayes 57 lambs av 65 at \$5.50; to Barlage 38 do av 60 at \$6, 21 sheep av 100 at \$2.75, light bo av 50 at \$6, 21 sheep av 100 at \$2.75, light bo av 50 at \$6, 21 sheep av 100 at

Hogs. Receipts, 1,729. Market steady at last week's closing prices. Range of prices: Light to good butch-ers, \$\$@8.25; pigs, \$7.75@8; light yorkers, \$8@8.15; stags one-third off. Spicer & R. sold Parker, W. & Co. 250 av 190 at \$8.30, 50 av 200 at \$8.35. Haley & M. sold same 130 av 210 at \$8.35, 115 av 180 at \$8.30, 210 av 150 at \$8.25. Bishop, B. & H. sold Hammond S.

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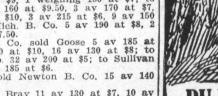
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Washingt





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PRACTICAL SCIENCE.

FEEDING STUFFS CONTROL

BY FLOYD W. ROBISON. the milling fraternity a natural market for the refuse by-products of their mills. the balanced ration, certain manufacturing concerns in the large centers of population began putting upon the market by-products of an entirely different nature than the milling by-products, but designed to compete with the miller in his market. sprung up and the natural product from the manufacture of oatmeal, that is, oat hulls, was produced in enormous quan-Corncobs, the product from the tities. manufacture of hominy, and other corn products accumulated likewise in the large milling centers in enormous quantities. The temptation offered by a fascinating price was too great for many millers to resist, consequently oat hulls began to find its way in ground corn and ground corncobs began to be introduced. Many concerns, such as the American Cereal Co., The Great Western Cereal Co., and the H-O Company began catering to the demand of the dairymen and placed scientifically balanced rations upon the market, not as an issue subsidiary to their general manufacturing business whole manufacturing plant. Oat hulls and corncobs were blended by some

of such an act by the legislature of 1905, fee of \$20.00 for each and every brand of and went into full effect with the active feeding stuff he offers for sale in this support of the dairymen's association and state. Said fee is to be paid on or be-the Michigan Miller's Association as well. fore April 1 of each year: Provided, that

support of the dairymen's association and state. Said fee is to be paid on or be-the Michigan Miller's Association as well. Crude Fibre Declared on the Package. One of the unique features of this law was the requiring of the branding on the gackage of the percentages not only of protein, carbobydrates and fats, but of the crude fibre as well. The reason for the writer's advocation of the plan of in-cluding crude fibre in the law was be-cause it was the real index of the net available energy of that feed to the ani-mal. Obviously, the manufacturer on the package the percentage of digestible nutrients, the required to state on the package of the percentage of the percentage of the writer's advocation of the plan of in-mal. Obviously, the manufacturer could he be required to state the agents the real index of the net available energy of that feed to the ani-mal. Obviously, the manufacturer could he be required to state the required to state on the package of the percentage of digestible nutrients, therefore, help defray the expenses of the office neither could he be required to state on the package to the animal. However, with the plac-ting on the package of the percentage of the roughage in the ration, the feeder of thus had at his disposal factors which the roughage in the ration the reduired roughage and sells in th

or expose for sale or for distribution, in this state, any concentrated commercial feeding stuff used for feeding live stock, For a long time it has been customary shall furnish with each car, or other for farmers to take in exchange for their amounts shipped in bulk, and shall affix grains the mill by-products to be used to every package of such feeding stuff, in as adjuncts to the roughages in the shape a conspicuous place, on the outside there-of hay, corn stover and the like, which of, a plainly printed statement, clearly were the basis of the feeding rations on and truly certifying the number of net the farm. There thus grew up among pounds in the car or package sold or offered for sale, the name or trade-mark under which the article is sold, the name the practice of more intensive of the manufacturer or shipper, the place dairying and the study which dairymen of manufacture, the place of business, were making of the new ideas regarding and a chemical analysis, stating the percentages it contains of crude protein, crude fibre, nitrogen-free extract and ether extract, all constituents to be determined by the methods adopted by the association of official agricultural chemists. Whenever any feeding stuff is sold quantity not exceeding two pounds for Oatmeal, factories had at retail, in bulk or in packages belonging to the purchaser, the agent or dealer shall furnish to him a certified copy of the chemical analysis named in this section.

(a) The term concentrated commercial feeding stuffs as used in this act shall include linseed meal, cottonseed meal, pea meals, cocoanut meals, gluten meals, oil meals of all kinds, gluten feeds, maize feeds, starch feeds, mixed sugar feeds, hominy feeds, rice meals, oat feeds, corn and oat feeds, meat meals, dried blood, clover meals, mixed feeds of all kinds, slaughter house waste products: also all condimental stock foods, patented and proprietary stock foods, claimed to possess nutritive properties and all other materials intended for feeding to domestice animals: Provided, that such feedbut as one of the main spokes in their ing stuffs, as defined above, shall not include hays, straws, fodders, ensilage, the whole seeds nor the unmixed meals

pany, agent, person or persons who shall sell, offer or expose for sale, without first complying with the provisions of act, any commercial feeding stuff, this or shall attach or cause to be attached to any car, package or other quantity of said feeding stuff, an analysis stating that it contains a larger percentage of any one or more of the constituents named in this section than it really does contain shall, upon conviction thereof, be fined not less than \$100 for the first offense, and not less than \$309 for every subsequent offense, and the offender shall also be liable for damages sustained by the purchaser of such feeding stuff on account of such misrepresentation.

(g) The Dairy and Food Commissioner, by any duly authorized agent, is hereby authorized to-select from any package of commercial or other feeding stuff exposed or offered for sale in this state, a a sample, such sample to be used for the purposes of an official analysis and for comparison with the certificate filed with the Dairy and Food Commissioner, and with the certificate affixed to the package on sale.

(Added by Act No. 12, P. A. 1905). Sec. 19. The published annual report of the Dairy and Food Commissioner which shall be made to the governor, shall include a complete accounting of all moneys received by the department from every source, and the amount expended by the department.

(Added by Act No. 12, P. A. 1905). Sec. 20. All acts and parts of acts inconsistent with this act so far as they are inconsistent are hereby repealed. This act is ordered to take immediate

effect. (Added by Act No. 12, P. A. 1905).

BOOK NOTICES.

whole manufacturing plant. Out hulls include hays, straws, fodders, ensilage, and corncobs were blended by some the whole seeds nor the unmixed meals manufacturers scientifically, if we may use that term in this connection, and by wheat, rye, barley, oats, flaxseed, maize, for Barrows, S. B., Prof. of Zoology and buckwheat, wet brewers' grains of the granows, the seeds nor the matreet in this way the man facturers were able to utilize to a decided advantage what was otherwise have found their way fractically worthless and the ground oat their way fractically worthless and the ground corncobs which units and the ground corncobs which would not pass muster in other way for products.
Michigan was the Dumping Ground for the state of Michigan Experiment station, following the legislature in their state of Michigan Experiment station, following the experiment station, following the legislature for the sold or of fered for sale, for the manufactiver, and Michigan Experiment station, following the legislature for products with said Dairy and Food Commissioner, a certified to in this section, and shift to be sold or offered for sale, for sale in this state one pound of the feeding stuff, the or sale of the kingan experiment station, following the beam state of the difficure and for the analysis and certificate which would not pass muster in other state of the chemical analysis and certificate which would not pass muster in other state of the chemical analysis and certificate transming for the acalled gas far, or bottle, control have for products and Michigan Experiment station, following the legislature and space of reace of reace of the chemical analysis and certificate transming for the heading stuff to be sold or offered for sale, for sale in this state one pound of the feeding stuff to be sold or offered for sale. The shock, which is printed upon the active the reactive the shock for every farmer and will prove a valuable ext and the same of the chemical analysis and cevery feering to in the state subject of Michigan birds, has spent sev-eral years in preparing this work and the people of Michigan should generally avail themselves of the rare opportunity thus afforded them to secure a valuable book of this kind at a nominal price which merely represents the cost of printing and binding

the roughage in the ration, the feeder thus had at his disposal factors which would give him a very close approxima-tion indeed, to the real intrinsic value of that feed when given to his stock. The statement of the content of crude fibre over the laws enacted in the neighboring states which required simply the content of protein and fat to be mentioned. Before going into any other features of this subject we shall append hereto a full copy of the law covering the sale of Michigan. The Law. Sec. 18. Any manufacturer, company, person or persons who shall sell, offer



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CULLING THE FLOCK.

Before moulting begins the flock should be culled and all fowls not wanted for wintering or for sale later on should be sold. Under this head come old hens and roosters which are often kept in the flock long after they have ceased to be of any value. There is no use in retaining them, as the food they eat and the space they occupy in the poultry house might better be given to the oth-Prices are better at present than they will be later and now is the time to turn unprofitable fowls into cash.

It has been proven that males are an actual detriment to the laying flock, and the practice of keeping three or four over winter, eating their heads off, might safe, it is not good policy to neglect them well be given up. After the hatching period they should be disposed of.

In preparing for market, fowls fatten far more readily and with less food if not permitted to run at large. A small enclosure, made of wire netting surrounding any kind of open shed provided with roosts, answers admirably for the purpose unless the weather is very cold. Some kind of grit, also fresh water, should be always in reach. Corn is the best whole grain to feed to fattening fowls. said to be better still, particularly if made with sweet milk.

A laying flock may be reduced in numbers by judicious culling in such a way as to actually increase the egg yield. It keys unless he has ample range for them stimulates laying in those remaining. when the flock has been over-crowded. A mixed flock of 50 hens might be made to yield better returns by removing all the old ones, even should this leave not dows, pastures, and grain fields, since more than half the original number. they are great foragers, they will get Then give the same feed to those kept the insects that furnish the meat food It is poor policy to keep old hens over. through the moult and the following winter when the chances are that they will of giving growing turkeys one feed of not produce eggs enough to pay for their grain a day will be returned many fold If it is desirable to keep a larger keep. flock, better sell the older ones and buy growth, and they will be ready for markan equal number of pullets. Pound for et much sooner. pound, at market prices, this would be a profitable way to manage and give bet- DOES THE BEE MARTIN, OR KINGter returns in egg money. Genesee Co. E. E. R.

SUCCESSFUL POULTRY FARMING.

The possibilities of successful poultry farming continue to have a great amount of interest for many people. But intending poultry farmers must disabuse themselves of the common and erroneous idea numbers is a business requiring no special knowledge.

Before commencing, it is essential to realize that there is a very great deal to er fiying bees, which limits its depredabe learned, a lot of hard work to be done tions almost exclusively to drones. Some and ceaseless attention to be paid to have sought to prove that the bird is not small details at all times of the year and destructive of bees by examining the in all weathers. Poultry farming is not crops of birds, reporting failure to find in all weathers. Poultry farming is not a pursuit to be undertaken by those deficient in business capacity, energy, and intelligence, and who have, perhaps, al-ready failed in some other walk of life. But for anyone who has some capital, and who is active and intelligent, and discarding the remainder. has gained some knowledge from a practical poultry farmer, there is every reason to expect success.

Some years ago poultry farming proved a failure, except in a very few instances. But since then great attention has been paid to the crossing and making of new Among these there are many breeds. prolific layers, as well as excellent table Moreover, much assistance is fowls. rendered by the perfection attained by incubator makers, and the moderate price at which machines can be purchased. up an armed worker, undoubtedly paying Movable houses, too, are made so cheap- a severe penalty for its carelessness. The ly, and in such great variety, that poul- stomach examinations just referred to try farming at the present day has many (281 stomachs), made under our own diadvantages not possessed 20 years ago. rection in the United States Department The effect of this is that there are of Agriculture, showed that about 90 per numerous successful poultry farms, both cent of the food consisted of animal matlarge and small, but these are carried on ter, most of which was insects. These by business people on business princi- included beetles, grasshoppers, butter-ples. There are still a great many fail- flies, bees, wasps, two-winged flies and ures, attributed in a great measure to even caterpillars. There were 50 honey the ignorance of practical details, and to bees in these stomachs, 40 of which were the wasting of capital in the purchase surely drones, and only four certainly of needlessly expensive houses and the workers." wrong class of stock. The fowls have been improperly fed and treated, and no that the general bee-keeper has little to attempt has been made to dispose of the fear from this bird, unless these flyproduce of the farm to the best ad- catchers are present in such numbers as vantage.

at all unless he has sufficient capital to a specialty of rearing queens, however, allow for living expenses for two years, the presence of this bird may be regardwhile the business is being built up and ed a serious menace.

the outgoings are probably in excess of the returns. The stock should consist of fowls of some definite breed, and not of mongrels. There are few mongrels that lay as well as pure-breds.

When keeping pure-bred fowls, in addition to the sale of eggs and chickens on the market there is the advantage of obtaining higher prices for sittings of eggs early in the year, and for some of the young stock that are fairly typical specimens and are salable for stock purposes. Most successful poultry farmers do not make their profit from eggs and chickens marketed, but from breeding stock. W. R. GILBERT. Canada.

GETTING GROWTH IN TURKEYS.

Young turkeys are very tender up to the age of seven weeks. While it is true that as soon as turkeys begin to acquire the "red head" they are comparatively or allow them to take, their own course without care during the rest of the season. Because they can find a living for themselves the owner should not consider that they need no food except what the fields afford them. Growing turkeys should be given a liberal feed of grain every evening; they should not go a single day without grain feed of some kind. The evening feed of grain keeps them growing rapidly during the hot weather and it gets them in the habit of coming A thick mush of corn meal is to the house to roost. Turkeys will grow more rapidly after they become familiar with their owner and are not worried at the sight of a human being.

No one should undertake to grow turas they will not flourish in confinement. If milk is available the curd makes an ideal feed for growing turkeys, and if they are given entire liberty in the meaessential to their growth and development. The owner's care and the cost by the turkeys making more rapid J. M.

BIRD, DESTROY BEES?

A Barry county reader wants to know whether the common bee martin, or kingbird, is really destructive of bees. There is difference of opinion as to this -not so much as to whether the bird really catches bees but as to the loss sustained by the apiarist. That this bird, which is a prominent member of the that profitable poultry keeping in large family of flycatchers, is capable of capturing bees upon the wing has been very conclusively proven, but its friends declare that it chooses the larger and slowevidence of the consumption of bees. the other hand, some observers claim that the bird does not consume the body of the bee, more especially the worker bee, merely extracting the juices and

> In his recently published exhaustive treatise on Michigan bird life, Prof. Barrows, of M. A. C., states that the facts do not warrant the opinion that this bird is an enemy of the bee-keeper. Upon this point he says: "It has been shown most conclusively, by the examination of numerous stomachs, as well as by careful observation of the living bird, that it seldom eats worker bees, usually contenting itself with drones. Of course, it makes an occasional mistake and snaps

From the above it seems safe to say antage. to endanger the queens when making An intending beginner should not start their flights. To the man who is making



(17; 89

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Crystal White Orpingions the great winter layers. if taken now. Young stock for sale. MRS. WILLIS HOUGH, Pine Crest Farm, Royal Oak, Mich. Order Booked for Single comb Buff Orpington Cockerels of May hatch. Otis Greenman, R 4, Bellevue, Mich Prize Winning Barred Rocks, R. I. Reds, Mam-Stock for sale. Eggs S1, 52, Spor set. Utility \$5 per 100. EMWOOD FARM, R. R. No. 13. Grand Rapids, Mich. 30 Pure Bred Fox Hound Pups ready to ship in May hounds. Send stamp. W. E. Lecky, Holmesville, Ohio.

IICK

BROADCAST FERTILIZE

A NEW APPLE PEST.

It may be that the title of this letter is somewhat misleading, for the pest of until next year and then put these or- Oakland Co. which I shall speak is not new, but only chards on the necessary list. new in respect to its attack upon the apple trees in this part of the state.

just after the leaves had come out, the apple trees were seen to be covered with and easy to use, so these orchards have minute lice. They occasioned considerable comment at the time, but soon disappeared, and so far as the writer knows bear in mind and that is to get our orthey did little, if any, harm. This year chards in proper shape before it is too they came again and their work is noticeable in all the orchards as far as I know, and upon some sweet cherries as well.

or plant lice, as they are generally called, and diseased peach trees as soon as posand there are some very interesting facts about them.

The eggs are deposited upon the twigs in the fall, after which the cold weather a very heavy rain, which blocked our kills off the lice. These eggs hatch in farming operations for several days so I the following spring, producing a generation of females which quickly develop, after the rain and commenced pulling and give birth to another generation, also females, and so they go on multiplying throughout the summer, until in the fall both males and females are produced, which meet, after which the fe- as well as those diseased. By the time males once more lay their eggs upon the I get this job completed the ground will branches, and succumb later to the cold of the gathering winter.

The green apple aphis is most prevalent here. It puts its little bill into the last for this season. I will try to have tender bark, and sucks out the sap for For this reason it can not be food. killed by any poison applied to the surface of the tree. No spray can reach that part of the tree from which it gets its food.

By thus sucking the sap from the tree, weakens its vitality, occasions dropit ping of the fruit, and some species of the aphides fasten on the fruit itself, and prevent its development.

The lime and sulphur sprays have no effect upon this pest. Oil sprays are used sometimes, but their use is, without doubt, attended with some risk to the trees, and our impression is that the direct' results of the oil sprays are not very satisfactory.

A solution of nicotine will kill any of these plant lice, if applied at the proper We can buy this, or we can obtain time. tobacco stems and steep out the the nicotine at home. The formula given by Mr. L. M. Geismar, of the Upper Peninsula Experiment Station, is "One pound of tobacco stems steeped and diluted to eight gallons, after which a pound of soft soap is added.

The solution of nicotine can be applied to the trees in connecion with the regular spray, immediately after the blossoms fall and thus the only additional expense will be in the direct cost of the preparation

Without doubt these lice are subject to conditions of the, season which may be against them next year, but they have such a start now that it would seem that the only safe way would be to give them a good liberal dose of tobacco extract next spring.

W. F. TAYLOR. Oceana Co.

CULTIVATING ORCHARDS.

Without doubt our best fruit growers who practice cultivating in their orchards have the work so well organized that they keep ahead of it and always keep their orchards in fine shape. But, presume there are many like myself who are running a general farm in connection with their fruit growing, and at ing are crowding upon us that our orchards are apt to be neglected. It has always seemed to me that the things destroyed. that I knew just had to be done got done gotten ahead of me.

sand and quite badly infested with sand sorrow. burrs were plowed and disked early in the spring and dragged once or twice mon as they once were, but there are since. Then we put our time in get- still some of them left, together with ting in corn, potatoes, and cucumbers. stray shrubs that have escaped from cul-In the meanwhile we attended to the tivation. If the scale were to do no oth- ily increasing. Those who have tried in spraying, then followed the cultivating er damage than destroying the osage out are well satisfied. If interested ask of the hoed crops. And now, when we orange it might remain in peace, but it for full information. We import the are, as we think, somewhat caught up does not. The best way to dispose of highest grade seed obtainable and shall with our work, these orchards are star- osage is to dig it out, thus putting the be pleased to submit samples and prices ing us in the face with a growth that is scale out of the job. teo heavy to do anything with but to Owners of currants and gooseberries Grand Rapids, Mich.

plow under, and there is an objection to should not be surprised to see them die. plowing. A good many of the trees are The scale can kill them in two years. pretty thoroughly loaded with fruit, and kill out these sand burrs other than wait well as apples and plums.

Our young orchards are closer at hand, THE WHITE GRUB IN THE STRAWand if a man and team are out of a job At the opening of the season of 1911, for a while, cultivating can be done. The spring-tooth harrow is a fine cultivator nothing to complain of.

> In cultivating, there is one thing we late. If we cultivate too late we are apt to do great injury to the trees by having unripened wood for the winter season.

I mentioned sometime ago, in an arti-There are many species of the aphides cle, that I believed in removing all dead sible after they were known to be such. Till July 13 I could not find time to do it but on the morning of the 13th we had got a team into the orchards immediately Of course, it was quite muddy trees. but the trees were up-rooted the more easily for it. I made it a complete job and removed all unhealthy looking trees be dry enough to harrow and unless we get some more beating rains in the next two weeks this harrowing will be the weeds pretty thoroughly killed out the so they will not bother when it comes to sowing a catch crop. R. G. THOMAS.

TREES.

It is not the fruit trees alone that are subject to the San Jose scale. There are several other trees and shrubs that are subject to attack.

The mountain ash has been extensively planted as an ornamental and is deserving of attention for this purpose. But it much of this vacant space will be filled is something comes along to eat the scale, for not many will care to plant it if it must be sprayed. The scale finds it a choice feeding ground and settles upon it with as much contentment as the protrees in a nursery there is nothing more before the evil is suspected. This is not depository for their eggs. saying that the scale chooses a mountain ash in preference to other trees. Ordinarily it has no choice. It is carried to a tree by some means of distribution over which it has no control. But the kind of food it has does make a great difference with its multiplication. If suste-nance is good and is in plenty the scale thrives and increases, otherwise it tends to race suicide.

The Japan quince is another plant beloved of the scale, in which it shares other systems. After the runners start about equal honors with the mountain it is difficult to keep the plants confined ash. The moral is on the surface. Either to a sufficiently limited space, requiring spray or dig up this pretty shrub, other- extra labor. wise the scale will be present till the quince dies, which will not be long.

Those who have Camperdown elms should be told to look for scale, unless Plants are set at the intersection, cultithey already know about it. The Ameri- vated both ways and as the runners decan elm is exempt, though it has troubles velop they are allowed to form a matted of its own sufficient to meet all reasonable requirements.

The dogwoods should not be overlooked. sprayed.

Frequently the wild thorn is allowed ners. to grow along fences or in brush lots this time so many things that need do- near orchards, affording a distributing plants set in a straight line. In this point for the scale. Like all pest-breeding trees it should be either sprayed or grow side by side as in the matted row.

which feeds and fatter some way and other things that could be the scale in the purple leaved plum, hedge row consists of a single row of passed by for the time were simply Prunus pissardi. It makes a pretty tree plants about every 32 inches. The doucrowded out entirely. And now I have with its highly colored foliage and its ble hedge row has two rows set 24 inches some of this very same work that has wealth of white blossoms in their sea- apart and then a 32-inch space to the son, but should be sprayed, and that next row, i. e., every other space be-Two of our orchards which are on thoroughly, otherwise it is a source of tween rows is 24 inches and the remain-

Osage orange hedges are not as com-

These are the most important among as they are naturally low tree, now they the trees and shrubs outside the orchard are nearly resting on the ground. While fruits which are attacked by this scale, plowing seems at this time to be im- but the list is far from complete. Howpractical I hardly know what I can do to ever, these should receive attention as FRANK D. WELLS.

BERRY BED.

A correspondent writes me that the grubs are working great havoc in his new strawberry bed and wants to know what can be done to prevent further damage.

Now that the larvae of the June beetle are already established in the soil, the only thing to be done to to hunt out the repredators and kill them. If there are plants that do not appear to be doing as well as they ought, it is altogether likely that a grub is working at their roots. If taken in time, a plant may be saved by removing the enemy. Work employed in destroying these pests is time well spent, for, if left unmolested a single grub will often destroy several plants, making a clean sweep as he works from plant to plant.

The presence of these grubs may be more easily detected during the heat of the day, when the foliage of the plants being worked upon will show wilt. Then. too, this is the feeding hour of these larvae, hence they will usually be found near the surface, that is, near the base of the plant. At other times one has to dig down several inches before the grub is found.

These larvae are doing considerable damage in our new spring-set bed. This was to be expected for this piece of SCALE-INFESTED, BUT NOT FRUIT ground was in strawberries the two preceding seasons. We knowingly took extreme chances because of the fact that this particular piece of ground is especially adapted to the growing of strawberries, possessing large quantities of humus and being rich in plant food.

At present vacancies in the row of plants are quite numerous. However, liable to become a rare tree unless in by directing runners across from the row opposite. This is another advantage possessed by the double hedge-row plan of culture.

In dealing with this problem, prevention is better than cure and a grub inverbial pig in a clover field. Among the fested soil had better not be set to strawberry plants. Short rotations will subject to attack. If it is near fruit aid in solving the problem, as the beettrees it may become a bad breeding nest les will then seek other grounds as a Emmett Co. M. N. EDGERTON.

SYSTEMS OF PLANTING STRAW-

BERRIES.

The hill system is on the decline as a favorite way of planting this fruit. The land is marked both ways, as for corn, except narrower, and the plants are set at the intersections which requires a greater number of plants than for the

The matted-row system is less expensive. It is started by marking the field 4 ft. one way and 21/2 or 3 ft. the other. row, i. e., a row that occupies a strip of land from one to one and one-half feet wide. Cultivation is then done in only The red branched species is a refuge one direction. The saving comes in the for the scale and should be thoroughly fewer plants required and in the smaller amount of labor needed to train the run-

> The hedge row is formed by having the system no two plants are permitted to There are two kinds of hedge rowshe single and the double. The single ing spaces are 32 inches.

SAND OR WINTER VETCH.

The demand for this legume is steadon request. Alfred J. Brown Seed Co.,



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It is really too bad for the cause of pure food and honesty that the manufacturers of oleomargarine will not be satisfied with the present law governing that product, known as the Grout bill. Nothing can be fairer to their interests. Under this they are allowed to manufacture oleomargarine and only have to pay one-quarter of a cent a pound revenue tax, just enough so that the government will keep track of the manufacturer, but if they persist in coloring it yellow in imitation of butter so that it is liable to be sold for butter and deceive the con-sumer then they have to pay on this colored oleomargarine 10 cents a pound. Now the oleo interests have made a great cry about the 10 cent tax. They have interested many laboring men's organizations throughout the country and a great many of the city consumers because they hold up to them that oleomargarine is taxed 10 cents a pound while the farmer's butter is not. But as a matter of fact, it is only the colored oleomargarine that is taxed 10 cents a pound while oleomargarine in its natural color is only taxed one-quarter of a cent a pound, and statistics show that very little of the colored oleomargarine is sold. Most of it that is manufactured and put upon the market is oleo in its natural color and they only have to pay onequarter of a cent a pound tax. Consequently the tax upon oleomargarine does not make a burden to the consumer. Nevertheless, by not stating the case as it is by misrepresentation, the oleo manufacturers have got many consumers to believe that on all the oleomargarine which is sold the manufacturer has to pay 10 cents a pound tax.

The cleo interests in congress for the last several years have attempted to change this law and remove the 10 cent They have brought forward the Lefer bill, which is a good bill in many ways, as it requires that the original packages of oleo must be small and the revenue stamp must be placed upon each package, but they insist that they shall have the right to color oleomargarine. Now the dairymen claim that they have no right to color oleomargarine unless they color it some other color than but-

affected in this-the consumer is also hit. If the consumer pays for butter he ought to have butter. If he pays for the barn. You will need the room later oleomargarine he ought to get oleomar- on in the barn and you will wish a hungarine, and get it at a proper price per pound. It is a pure-food proposition in Then again, the silo in the barn will this respect, purely and simply. There is a law which prevents people from sell- sure of the silage is so great. I nearly ing corn syrup for maple syrup, even though they color it and flavor it in imitation of maple syrup it is against the law to sell it as maple syrup, and that Build one ten feet in diameter, make it but what it is more profitable to have is right. Maple syrup is a special product, and it cost more money to produce than it does corn syrup. It is a better have it round than you can to build it has an abundance of cheap pasture, product, that is, many people think it is, square with the same material. and they are willing to pay a better price. Now it is a fraud for the manufacturer to take common corn syrup or it imitates maple syrup and sell it as maple syrup. It is a fraud on the con- ground if you wish to but I would adsumer, and it is an injury to the producer of maple syrup. This is exactly it on a level with the ground and make it the case with oleomargarine. The same a little higher to get the capacity. Then, tions. can be said of vinegar. It is believed by on top of this circular wall put a circumany that cider makes a much better lar sill made out of inch boards, double. vinegar, more wholesome, than could be Then set your studding on this circular made from acids, but it cost more to sill 16 inches apart, lath the studding on now there is an enormous amount of it make cider vinegar than it does acid the inside and plaster it with cement This cuts down the supply of butter for Consequently vinegar. are all the while trying to disguise acid cement. You can clapboard it on the conditions better for the dairyman. vinegar so that it looks like and tastes outside. Get six-inch lumber and have gives a man with cheap land for pasturlike, and will sell for cider vinegar. Now it split so that it will be one-half inch age a chance to make something out of there is a law against this. This law is thick and put it so that one piece will jt. Of course, it has always been the the producer, but it protects the pro- it lap. Then it will go on nicely. In milk must have his supply of milk disducer as well because cider vinegar is building this silo re-inforce it with com- tributed as evenly throughout the year more costly to produce.

made out low. Now if it is prepared so that it is roof put two 2x8's across the center three to freshen in the fall when he wants

there is not enough butter being pro- top of the 2x8's and then make a cap to duced at the present time to supply the go over them by using two other 2x4's demand if oleomargarine or the substi- and nailing boards across so that it will tute for butter was taken off the market. just fit down over the pieces fastened to People would not have enough to spread the 2x8's. You can have this cap in secupon their bread. But when this manu- tions so that it can be easily taken off. facturer of oleomargarine attempts to When you fill the silo remove the caps. color tallow and other animal fats so In this way you avoid having any dortheir product looks like butter and sells mer window or anything of that sort. it for butter, then it is a fraud. It is a Other kinds of silo would serve your purcheaper product than butter, it is not as pose nicely. A stave silo can perhaps be good as butter, everybody knows that, erected with the least trouble, while a There is no use in denying it and there cement silo has the advantage of being is no use arguing about it, and the only reason that the manufacturer insists that be colored yellow is so that it can be it sold for butter and get a better price, or butter price for it, and when they do that they defraud the consumer and the producer as well.

to the color distinction. If you take ing a manufactured product, it is conpackage somewhat, and it prohibits the product, whether it be butter, cheese, product. tures. manufacturer be allowed to take good cessful crop producer, a successful farmpure butter and mix it with a lot of tal- er, if he makes the greatest success out ine? If a manufacturer of butter should produce good crops is not proof that he use any other animal fat in connection will succeed with dairy cows. He must with butter-fat and attempt to sell it also have an ability to select, feed and for butter, then it would be adulterated care for cows. butter, but the manufacturer of oleomargarine can take creamery butter and mix it with animal fat, in some brands as high as 40 per cent being creamery butter, and then sell it for oleomargarine. ter so that they can sell it for butter the fall and go dry in the summer time. Hagon bill, which will prevent this, ought to prevail. There ought to be the question at the present time. Fifteen or color distinction and the manufacturer of oleomargarine ought to be prevented from using butter.

The government cannot prevent the a tax of ten cents a pound is put upon this product so that it will practically prohibit its manufacture.

BUILDING SILO IN BARN.

My advice would be first, don't build your silo in the barn; build it outside of dred times that you had built it outside. warp your barn out of shape, the presspeiled a barn by putting my first silo inside.

Then again, don't build a square silo. round. You can build a much stronger silo and

yourself you could build a lath and plasvise you not to go into the ground, build

more permanent.

THE MICHIGAN FARMER.

DAIRYING A LARGER BUSINESS THAN FARMING.

Men talk about dairying as if it were on a par with raising wheat, or corn, The dairy interests of this country have or clover, or any other one particular brought forward a bill to offset the Lefer crop. When, in fact, growing these is bill. The bill was introduced by Con- the mere production of crops while gressman Hagon, of Iowa. This bill sticks dairying is a business in itself; it is makaway the color distinction then there is verting the corn and the clover and the no use of having any legislation at all. other food stuff grown upon the dairy Besides that, it changes the original farm into a marketable, manufactured manufacturer of oleomargarine from us- milk, or butter-fat. So the dairyman is ing butter in the manufacture of their more than a mere crop producer. Crop These are the essential fea- production is but a part of dairying, an Why should the oleomargarine elementary part. A man must be a suclow and lard and sell it for oleomargar- of dairying. But the fact that one does

WINTER DAIRYING.

Fifteen or twenty years ago I thought there was but one side to the question They do this so as to make bleomargarine of winter dairying. All arguments were look like, taste like, and smell like but- in favor of having the cows freshen in and get a butter price for it. Now the Since then dairy markets have changed so much that there is two sides to the twenty years ago we used to sell butter in the summer time for 12 and 15 cents. Our creamery has sold butter for this price for storage purposes. The commanufacture of colored oleomargarine mission men did not think they could but it can use its taxing power. Hence afford to hold and store butter unless they could get it down below 20 cents. The price of cheese and market milk and all other dairy products has always been based on the price of butter and consequently they were low in the summer Now there is no question but time. they color if some other color than but-they color if some other color than but-ter; because, when oleomargarine is col-ored in imitation of butter it is colored for the purpose of selling for butter and deceiving the consumer. Now the dairyman is not the only one Now the dairyman is not the only one ration to balance the feed and has to good warm stable to keep her in she will keep up the flow of milk with very little falling off all winter long and then when summer comes and the pasture grass is luxuriant the cow will flush up for a time like a new milch cow. The period of lactation is prolonged. On the average the winter milker gives the largest amount of milk. Where one has little pasture there isn't any question today You don't want a square silo. the cow freshen in the fall. On the other hand, if a man is so situated that he waste, cutover, or rough land that can-If you want to build a serviceable not be plowed but which contains plenty round silo and do the most of the work of grass, it is a question whether it would not be better for him to have his glucose and color it and flavor it so that tered one as follows: Make a circular cows give the larger amount of milk in wall for the foundation, you go into the the summer time, and therefore they would necessarily freshen in the spring. The consumption of ice cream in this

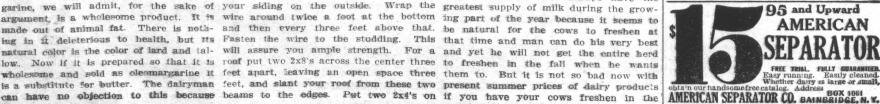
Silage

Pays"

country is growing to enormous propor-It, to my mind, has much to do with the summer price of butter. Fifteen or 20 years ago very little butterfat was consumed for ice cream, while manufacturers mortar made two parts sand to one part storage, advances the price, and makes 1 to protect the consumer more than it is come directly above the other, not have case that the man who furnishes market and so with oleomargarine. Oleomargarine, we will admit, for the sake of your siding on the outside. Wrap the greatest supply of milk during the growargument, is a wholesome product. It is wire around twice a foot at the bottom ing part of the year because it seems to of animal fat. There is noth- and then every three feet above that. be natural for the cows to freshen at made out of animal fat. There is nother and there is nother the wire to the studding. This that time and man can do his very best natural color is the color of land and tal- will assure you ample strength. For a and yet he will not get the entire herd wholesome and sold as oleomargarine it feet apart, leaving an open space three them to. But it is not so bad now with is a substitute for butter. The dairyman feet, and slant your roof from these two present summer prices of dairy products







It 30 days f the

spring, because you will get something for the grass that grows on the hillside and in the cut-over lands that cannot utilized in any other way only by pasturing, and the indications are that the summer price of dairy products will continue to be higher than formerly. I don't see any chance for breaking the butter industry, no matter how much the oleomargarine proposition is pushed for there will always be a large class of people who will prefer good butter and who will buy it at any reasonable price. We might be much concerned about this if the only market for dairy products was butter and cheese, but the growing demand for market milk which will continue just as long as our population increasing, and the increasing keeps amount of ice cream used which is not dependent upon increase in population but rather on the extension of the present market, there is no chance for a falling off of demand for summer dairy products, and consequently there will be no falling off in prices.

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(20)

Figured in any way, the prospects for dairying in the future are more flattering than they have been in the past. To be sure, labor is higher, feed is higher, but dairy products are higher in proportion than the labor and the feed, and with the understanding that we now of the business we can produce have milk and butter-fat cheaper than ever before. By keeping a close tab upon our cows as we can through the cow-testing associations, we place dairying on a true business basis. We can easily eliminate the less profitable animals in the herd, select the most profitable ones for future use, and by adopting a modern standard method in feeding and caring for the animals there is no question but what a man can make more money out of dairying today than he ever could before. I realize that in many instances the production is lessened owing to the fact that unprofitable cows are disposed of more closely than before. While this means a smaller quantity of the dairy products it does not mean a lessening of the profit. This is an advantage to the dairyman rather than an advantage to the consumer, but of course we are figuring from the producer's end, rather . than from the consumer's end.

A dairyman must be a good dairy farmer. He must realize that much of his profit from his herd depends upon the cheapness by which he can produce the feed upon his farm. He must learn to produce a maximum quantity of feed upon his own farm. He must use byproducts. He must utilize the silo to its fullest capacity. He must grow red clover, the alfalfa plant to furnish the protein and the bulky part of the ration. He must balance these two feeds with a proper grain ration which will the cow the proper proportion of give protein to carbohydrates. He can raise the most of this upon his own farm, and his skill as a farmer will in a large measure determine his profits in dairy-

PASTURE IS GOOD.

ing

We have the best pasture this spring we have had in years. We rented a farm in the neighborhood with about 35 acres of additional pasture and we didn't have to turn the young cattle onto the cow pasture at all in the spring, and then I built a good-sized exercise yard for the cows down on the creek flat so I didn' let them onto the main pasture unril there was a good growth. If you let them out early and allow them to roam over the pasture they do not give the grass a chance to grow and at the same time there isn't much for them to eat so So I fenced in a big yard, someearly. thing like two acres. There is a creek running through it and it has quite a lot of shade. We turned the cows in this enclosure early. They ate their rations did no 9110 for the the grass grazed from the enclosure, and we kept them there until the grass got a good start, and the consequence is that they had good pasture and that pasture has held out well until the present time. Now the dry weather begins to tell. There is an abundance of grass, the June grass is getting ripe and is drying up and it isn't so palatable as it was. Ever since we turned the cows onto the pasture we haven't been able to get them to eat very much ensilage. We finally decided to leave it out of the ration entirely and will not feed it again till the pasture gets short. We have more ensilage left on hand probably than the cows can consume this year but if there is no occasion to feed it this summer it will keep until next year.



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