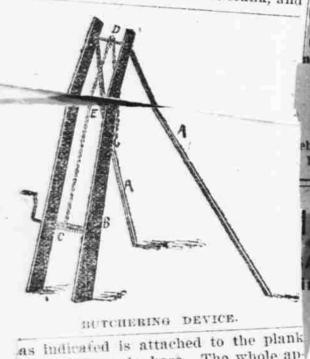


Device for Butchering. This device for butchering, described by a correspondent of the Ohio Farmer, is made so plain by the illustration as to require little explanation. The standards A A are 2x4 hardwood scantlings, 8 feet in length; the upright B, a 2-inch plank about 1 foot wide at the bottom and S inches at the top, S1/2 feet long. These are hinged together on top with a half-inch bolt running through a hole bored through both plank and scantling, and in the center of this the pulley D is placed, a slot of course beang cut in the plank for pulley to play

The crank C is an old well crank, and



THE FARM AND HOME

MATTERS OF INTEREST TO FARM-ER AND HOUSEWIFE.

Favorable Showing of the Southern Corn Crop-Value of Artificial Lakes on the Farm-Plan for Digging a Good Well-Notes.

The Southern Farm Magazine, of Baltimore, has compiled from official reports the total production of corn by States in the South in 1898, showing a gain, as compared with 1897, of over d out. Then soak in a solution of 114,000,000 bushels. In the South the and salt in the proportion of three average price for corn runs from 40 cents to 50 cents or more, as estimated by the United States Agricultural Department. On the basis of 40 cents, this means an increase of nearly \$50,the skin every day until it is dry, 000,000 in the corn crop of the South, as compared with last year.

Compared with 1897, most of the Southern States show a small gain in acreage, running from 1 per cent. in Ille to have every farmer and breeder Georgia to 8 per cent. in Texas, though Maryland, Tennessee and Kentucky show a decreased acreage of from 2 to g, as recommended by some, just get 5 per cent. The gain in the average plece of an old broom handle, or some yield per acre was very marked in und stick as large, and about twelve nearly all Southern States except in fourteen inches long, and fasten in Georgia, in which there was a decline animal's mouth so as to keep it in the average of two bushels per tking at the stick with its tongue, acre. The total crop by States, as com-IVE I it will soon pump up all the extra piled by the Southern Farm Magazine is accumulated in the first stomach. from advance government reports, and ad I known this several years ago I as compared with 1897, was as follows:

1898.

(Bushels.)

85,177,000

20,328,000

73,526,000

53,709,000

105,461,000

27,718,000

39,931,000

ould have been several hundred dol-1897. rs better off in cattle to-day. I have (Bushels.) States. 10sen curing cattle for the last five Kentucky 64,486,000 West Virginia... 17,004,000 ears, and have not lost a single case Tennessee 63,673,000 Arkansas 35,581,000 Feeding Work Horses. Texas 72,175,000 Whenever a working team has an un-Louisiana 21,576,000 sually hard job it is the habit of some Mississippi 30,346,000 mmers to feed it extra, thus giving its Alabama 30,524,000

39.681.000 mach an additional labor and thus Florida 3,811,009 4,377,000 sening available present strength. It Georgia 32,173,000 26,580,000 got always to be remembered that it South Carolina. . 15,308,000 17,500,000 the food eaten the day before, and North Carolina.. 31,324,000 34,170,000 Virginia 31,552,000 38,563,000 days and weeks before that, which Maryland 20,354,000 16,406,000 Egilable for present strength. No

> Totals469,887,000 583,127,000 The total corn crop of the United States for 1898 was 1,926,000,000 bushels, against 1,902,000,000 bushels in

for walling. I proposed the above plan, except the upper six feet of wall was made of grout. At fifteen feet fine sand was struck, and the excavator, who was a miner, said that it was unsafe to go further. I suggested a whitewash made of cement, which was applied and held the sand securely until each three feet was finished, and so on forty feet deep to water. Here was genuine quicksand. A tube was made of 2x4, sharpened on the Inside lower end, and lowered four feet into the water, and the well has been apparently inex

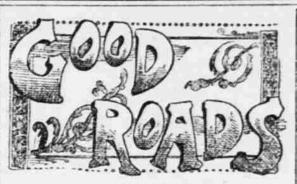
haustible ever since. It was mad twelve years ago, and several have been put down since, one over fifty feet. and have been perfectly successful. 1 examined the first well about a year ago, and as far as I could discern it was in as good condition as when first made.-American Agriculturist.

How to Clean a New Churn.

occurs, the bolts ought to be loosened of everybody. more or less, so as to prevent it from woody taste.

soaking a new churn, but far will one for absorbing most flavors, and especially if it is used in the following man- pay for them." ner: Have it clear and cold for the first twenty-four hours, but change it two principle, yet nothing could be more or three times; next, churn for an hour unequal than to tax farm property with a solution of some weak alkali alone for the construction of roads (powdered lye or lime), then rinse with boiling hot water, and if convenient community. In the newer states the soak for twenty-four hours longer with | taxable property is more nearly equalclean flavored buttermilk or sour skimmed milk, repeating this should it seem necessary. This process over, wash the churn as usual-that is, by first rinsing t with cold water, then churning for ten minutes with that which is boiling

hot, and if steam is available steaming the implement sufficiently to make it



The Basis of State Aid. Two highways should be built and

naintained by those who live along them is an ancient doctrine, but an unjust one. Fifty years ago Macauley described how unfairly the practice operated in the Seventeenth Century; how toll roads succeeded it and, finally, free turnpikes. But in this country we have only recently begun to see its injustice, and to realize that the relatively sparsely settled country, with its comparatively small amount Never should a churn be employed of taxable property, cannot equitably for making butter until it has been shoulder the burden of constructing soaked several days. Furthermore, if and maintaining the major part of the it is perfectly tight when the soaking highways of the country for the use

This subject is treated by A. B. warping and getting out of shape, says Choate, of the L. A. W. Highway Ohio Farmer. Some manufacturers Committee, in circular No. 31 of the stencil this instruction right on the Government Office of Road Inquiry, churn. Despite this, however, many are on "State Aid." "After years of agithe butter-makers who neglect the pre- tation," he says, "and condemnation caution. What are the results? Gener- of the farmers for failure to build ally the butter is not good, it having good country roads, the agitators have for the first few churnings a decidedly discovered that they have been trying to work an injustice upon the Many are the ways recommended for farmers. The mistake was, not in demanding good reads, but in asking the go to find anything that equals water farmers to build good country roads without taxing city property to help

> Equality of taxation is a familiar which ultimately benefit the entire ly divided between town and country; but, in the older ones, the preponderance is greatly in towns and cities, in New York the proportion being about six to one.

"The bearing which this fact has," says Mr. Choate, "upon the question of State Aid for building country wawarm enough to dry itself. Thus it is gon roads is very apparent, for, if the

merely sympathizes with it. A young woman who had gone from her home in an inland village to visit friends in the great city for the first time in her life, soon began to lose all appetite and grow thin and hollow-eyed.

Her friends, fearing that she was go ing into a decline, called in a physician in spite of her protests, and asked him to prescribe for her. He asked a few questions, noted her symptoms, gave her malady a scientific name, and said. as he handed her a bottle of pellets:

"It will be necessary, miss, first of all, for you to leave the crowded city The air here is not good for you. Have you friends in the country?"

"Why, I live in the country, doctor," the replied.

"Very good. Return, then, to your home, engage in light exercise, with frequent walks in the open air, and take five of these pellets every morning before breakfast."

She returned to her village home, observed the doctor's directions faithfully, paying particular attention to taking the medicine, and was well in less than a week.

Meeting the family physician one day it occurred to her to tell him her experience. He listened to her, asked to see the pellets, tasted them, and finding them to be merely sugar, unmedicated, said:

"What did your city doctor tell you was your ailment?"

"He said it was nostalgia."

"H'mph! Do you know what nostalgia means?"

"No. sir."

"It means homesickness,"-Youth's Companion.

The Clergyman's Lease.

One of the most popular preachers in London, from 1832 to 1879, was Dr. John Cumming, a Scotch Presbyterian. His celebrity was chiefly due to his sermons on prophecy, wherein he interpreted the signs of the times, the millennial rest, the Last Trumpet, and the Seventh Vial.

Shortly after the publication of a series of sermons, in which the preach-

er had announced that within a few years the present order of things would end, the post Tennyson was dining with a friend at a London tavern. In the course of the conversation the poet said "Doctor Cumming, although he has prophesicd the end of the world in ten years, has just taken a lease of the house he lives in for twenty-one years." "Is that true, sir?" exclaimed a waiter, rushing forward, napkin on arm. "You have comforted me wonderfully, sir. I am a family man, and I didn't see the use of my being a waiter if the world was to end so soon." Doctor Cumming was a canny Scot. He knew how to drive a good bargain, and had unbounded confidence in his drawing power as a preacher. When he became pastor of the London church. it had run down into a poor, weak, palsy-stricken thing. The confident young Scotchman agreed to take the pew-rents for his salary, and to remain satisfied with the same. The trustees consented-there was an acre of unfilled pews-to discover in a year or two that their pastor was receiving the largest salary of any dissenting clergyman in London.-Youth's Companion.

21/2 feet from the base. The whole apparatus is easily portable, very con venient and cheap in construction, and every farmer who keeps pigs should to it, for use at butchering time.

Homestead has an excellent as well a a humane way for the relief of choking. the animal becomes choked I find the obstruction by feeling along the throat with one hand, and in nine cases or of ten it is found in the gullet. With be forced out the way it went in, and which has the championship record of generally the animal is ready to assi in the removal. A few years ago I ha

a heifer that was choked with applevery few days, and in every instan-I removed them in this way witho difficulty or danger of injuring the at mal. I think anything which an an mal gets in its throat and cannot g down in the natural way should not punched or pushed down, thereby e dangering the life of the animal, a should be taken out the way it we in."

A Handy Manger.

The idustration shows a ladd frame binged in the manger at bo ends, which can be tipped up whi hay or fodder is being put in, and down again. This device prevents t waste of feed, which is pushed out a trodden under foot, and saves sto that are sometimes horned into a ma ger or in their backs. For cattle crossbolts or rounds should be stre and close enough together to prev



PREVENTS WASTE OF FEED.

them from getting their horns ca under the counds .- Practical Farm

Cost of Eggs. Experiments in feeding and in puting the value of eggs, show that no estimate is made for labor, one en eggs can be produced at a cos about 6 reuts for food, or about h -cent an egg. If all of the food all to heus were converted into eggprofit of a dozen eggs would be l even when prices are very low, but depends on whether the hens co food into eggs, flesh or support of bodies. It is a fact demonstrated. ever, that when a dozen eggs are keted they carry from the farm bi the of the nutritious elements of th in propertion to their value in m and on that account they are as i able as anything that can be proon the farm.-Poultry Keeper. Corn in Germany. of American corn that now goes ly to Europe is for the German f: For the past two years the G farmer has been learning how to his corn to his stock. It is esti-German farmers had fed oats, Ru barley and other cheap imported g Their own land is too valuable t mit them to grow feed.

equires .- Home and Garden.

fmal ought to be expected to work on

in empty stomach. But a light feed

before an extra hard job is better than

oading the stemach with more than it

Orchard Manuring.

made of value for strings, etc.,

tanued by soaking them in lye

wood ashes or lime until the

n be easily rubbed off, then soak

In running water until the lye is

ds of alum to one-half pound of

The solution should be sufficient

ver the skin. Soak for about three

then hang up to dry in the shade.

To Cure Col'c

leorge H. Hogan, writing to the Ag-

ultural Epitomist, says: "I would

fine stock know how to cure colle,

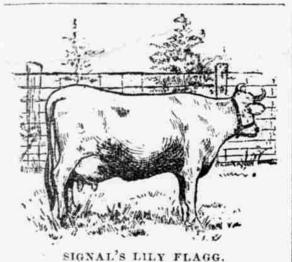
hoven, in cattle. Instead of punctur-

and pliable.

have one either of this kind or similar Ananure are broken fine by frost, while decrease for the rest of the country. eto the roots of the trees. Such work partial offset to the low price of cot-To Relieve Choking Cattle. Dis applying manure to trees in winter to the low price of cot-ton this year, but before the South concattle, and he thus describes it: "When Nand there is more complete incorpora- should remember that the Central ____ tion of the manure with the soil.

Champion Butter Cow. A picture is given here of the won-

the thurab and fingers the obstacle c. a derful Jersey cow, Signal's Lily Flagg,



1,047 pounds 9 ounces of butter in one year. The cut is reproduced from a drawing from life made by Mr. Webb Donnell, for the Country Gentleman.

Gleanings.

The farmer who buys bran and linseed meal never makes a mistake, as such ponds without going outside of the those substances will enrich his manure heap, as well as add to the thrift many townships there are no brooks of his stock.

When meal is fed to hogs, either as slop or dry, it is impossible to prevent waste; if meal is worked out of the trough or the slop spilled, it is hardly possible to gather it again. If whole much of a stream, it is true, but it will orn is fed the last grain is devoured. The food properties of corn are not changed by grinding it; it is still corn, whether served as meal, much or slop. When feeding hogs, grind only for the aged sows which have lost their teeth. and it is doubtful if they will pay the miller.

Each field of the farm is fitted for some special use. Have due consideration of the soil, the past rotation and fertilization and needs of the proposed crop. There should be no haphazard of it for the bottom and sides, as that the sooner they will begin to make a way, but some forethought, in adapting would probably have some influence on winter egg record. the crops to the land.

some, as they lessen the work of har- suggest that the hogs be not allowed to | for feding hens in winter. vesting the crop and enable the grower divide the possession of this pond with to combat insects with advantage, but the other stock. The hogs seem to do closer cultivation can be given when more than any other animals to keep the trees are tall and the lower such places in an unwholesome state .-

1897, a gain of only 24,000,000 bushels, whereas the gain in the South alone A covering of manure around trees was 114,009,000 bushels. Omitting the erves as a mulch, and the lumps in the South, the figures would show a large he soluble portions leach out and go This is a very gratifying exhibit as a is then cultivated the hurried work of figures as evidence of the growth of the spreading manure will have been done, idea of the diversification of crops it Southern States have in this big corn crop just a little more than caught up with the corn crop of 1860, allowing nothing for the fact that in the meantime the population has doubled.

Artificial Lakes on Farms.

We have noticed in some parts of lilinois a number of small artificial lakes constructed in the pastures where the soil is suitable. Recently we saw not less than half a dozen of these on a single large farm. So far as we could see. they supplied the only water available for the stock, and the latter not only drauk the water, but bathed in it. There was no outlet, and the supply was gathered mostly from the raiss. The result of sum conditions is that the water becomes stagnant and foul. Water weeds and water life multiply rapidly, and the possibilities of disease are greatly increased. It would be better to build fewer artificial ponds, and have them abre sanitary in construction.

The desideratum is to produce a pond in which there will be a current of water. In such farms as we refer to it will be found inspossible to produce natural resources of the pasture. In

that run throughout the year. The dependence in such cases must be placed in a windmill, and this is the reason why fewer and better ponds should be constructed. A windmill will not give be enough to prevent the water from becoming entirely stagnant.

It will take some study to make the water run through the whole pond, but this can be accomplished by placing obstructions in the way or the current, continually deflecting it. Where there are low swales it will not require much of a lift to get the water to the top of

the ground. This will increase the amount of water that can be pumped. If gravel and sand be near and plentiful, it might be advisable to use some keeping down the growth of slime in

Low heads for trees are preferred by the ponds. It would be also well to

that almost any new churn may be rendered absolutely clean and sweet.

Lice on Poultry,

In a letter from our veteran friet James J. H. Gregory, of Marblehead, he avows his belief that insufficient feeding is the reason why poultry become troubled with lice. In his many upon the farm property shall be very years' experience with fowls he fins much heavier in proportion to the any of the popular vermin destroyers. This is good testimony to the doctrine that lice never breed except where there have recently been lice to breed from. In other words, the notion of spontaneous generation is a humbug. It is undoubtedly true, also, that lice will not live on fat poultry. But there are times, as when hens of the brooding varieties are determined to sit, and then the steadiness with which the hen will keep to her nest will make her thin in flesh, no matter how well fed she may be. Mr. Gregory probably remembers the story of the anxious mother whose son had run away. "Dear John, come home. You know that a rolling stone gathers no moss." The son wrote back: "Dear mother, I don't want any moss. You must remember that a sitting hen never gets fat." So there is use sometimes for remedies for hen life, as they cannot always be prevented by

Root Frowning.

good feeding.-American Cultivator.

"It is difficult to get people to understand," says Meehan's Monthly, "that Boston correspondent refers to two large horsechestnuts which were moved last spring with the greatest skill, but sary holes in the bottom to allow the

ter lesson in gardening than to be continually remembering why it is necessary to have a hole in a flower pot."

Pcultry Pointers.

Never give fowls medicines in metallic vessels. Chemical combinations might be injurious.

Ducks and geese should never be kept with chickens. They are sure to breed disease in the flock.

The earlier hens shed their old coats

The Poultry Messenger advises putting away some second growth clover

"hump" themselves these days.

farmers are required to pay taxes on

their proportionately very small amount of property, to improve the long stretches of country roads, while the city people pay only enough taxes on their great wealth to improve the roads within the city limits, it will be necessary that the road taxes levied never but once had occasion to use value of that property than the road taxes upon city property, and the principle of equal taxation will be violated. * * *

> "The business men in the cities have learned that it is to their interest to have better country roads. * * * The whole State is interested in the improvement of all the roads, and since the city people are insisting that they shall be improved, it would be fair to levy a tax on city property as well as country property for the improvement of country roads. This is what is meant by State Aid. * * The State does not undertake to conduct the country district schools, but it does say that, if any school district shall run a school of a certain character a certain number of months in the year, it will contribute to the expense. The State Aid proposition, then, is an application to building country roads, of the practice now in operation for running country schools."

Summing up the principal points, Mr. Choate finds that:

1. All taxes should be equal. 2. Taxing farm property to improve trees can die from root drowning. A all country roads, and city property to improve city roads only, results in unequal taxation.

> 3. City people desire to have country roads improved; equal and just taxation requires that they contribute toward the expense.

4. State aid simply requires all benefited property owners to contribute to the expense of road improvements that benefit them.

5. State aid for road-building is the same in principle as state aid for public | riage entered the opening, he added: schools.

6. State hid is not a new experiment in road-building, but has proved successful in New Jersey, Massachusetts and elsewhere.-L. A. W. Bulletin.

The Song of the Angelus Bird.

When traveling in the forests of Guiana and Paraguay, it is not uncommon to meet with a bird whose music greatly resembles that of an Angelus bell when heard from a distance, says a writer in Great Thoughts. The Spaniards call this singular bird Campanero. or a bell-ringer, though it may still be more appropriately designated as the Freedom from lice and plenty of Angelus birl, for, like the Angelus range will make the growing chicks bell, it is heard three times a day-

morning, noon and night. Its soug.

sweet a note that Actaeon would stop

drop his lute to listen, while the clear

Ex-Colonials.

During the progress of the Queen's Jubilee the colonial princes, officers and premiers attracted, next to the royal lady herself, the attention of the public. Wherever they appeared they were received with cheers and especial honors.

On on occasion the streets were packed with spectators watching the guests depart from some royal function at Buckingham palace. The crowd refused to move except when some of the Indian rajahs or Australian officers appeared, when a way was speedily opened for them.

A carriage presently came out of the gates in which were three or four Americans who had been guests in the palace. Finding that the way was completely blocked, one young fellow among them shouted:

"Let us pass! We, too, are colonials," The crowd divided, and as the car-

"We are the colonials who wouldn't let our mother spank us."

The crowd caught the joke, and replied with laughter and applause,-Youth's Companion.

Seeing the Sights.

Even in these days of liberal education, young women sometimes show how confused are the ideas shut up in their heads. Illustrative of this is the naive blunder which Edmondo de Amicis recounts in his story of a voyage from Genoa to Buenos Ayres:

The captain of the steamer which numbered the charming young blunderer among its passengers, met her one morning and said:

"Signorina, we cross the Tropic of which defies all description, consists | Cancer to-day.'

water to escape. There can be no bet-

they died. In the fall an examination was made, and the holes found to be full of water within one foot of the surface of the ground. The holes were really flower pots, without the neces-

To Tan Skins.

A. J. Legg, in the Epitomist, but good cheese brings a high price, the following instructions: Dog especially when the parties making it pecialty of a choice article.

branches trimmed off.

There is a positive scarcity of all kinds of good stock, especially of the high grades, for the best and most proitable feeding, for the best home market and export trade. Thus overpro-A large share of the \$1,000,000 v duction of grain or live stock corrects Itself by being unprofitable.

It is best to keep wethers growing intead of fattening them, unless they are Intended for market soon. An allowance of three pounds of clover hay a that there will be a yearly mark day for a sheep weighing 100 pounds, 150,000,000 bushels of American using no grain, should be sufficient, but for this purpose in the German to fatten rapidly give two pounds of cultural districts alone. Previous hay and a pound of commeal daily. It requires about twenty pounds of is properly done, a first-class well will time. ilk to make a pound of butter, and be the result. The water will be as free ourteen pounds of milk to make a from drainage as the driven well, angle ound of cheese. More labor and care

Haymaker.

Digging a Well. I submit the following plan for digging a good well. Dip six feet deep in the usual manner and wall with stone, laying them in mortar made of hydraulic cement and sand. Continue the excavation six feet further, making this one thirty-two inches in diameter. Put on a coat of this cement about one inch thick and connect it with the stone wall. Leave the lower three feet uncemented. Excavate three feet more it.

and then cement to within three feet of the bottom as before, and continue until the water is reached. If this work

worm tight, if you please, Objection those in reasonable confinement and re necessary to make cheese, however, may be raised that a well of this kind properly fed.

cannot be put down through quicksand or other loose digging. Some fourtheep skins, and such small skyre known and reliable, and make a teen years ago a pioneer friend had no for the next feed. It won't hurt the well on account of the absence of stone | hogs, however.

The sooner you are rid of the old stock, except those intended for next of sounds like the stroke of a bell, suc-

ceeding one another every two or three season's breeders, the better. A writer declares that while old fowls sonant manner that the listener, if a can stand corn meal and bran, they stranger, imagines himself to be near a

never should be fed to chicks. chapel or convent. But it turns out that Be careful how the new grain is fed. the forest is the chapel, and the bell is It is liable to produce cases of what you a bird. One writer (Mr. Waterton) will probably call cholera. has declared that the bird tolls with so

Pure-bred fowls first, last and all the time. The breed does not matter so in mid-chase. Orpheus himself would much, provided you are satisfied with

note can be heard at a distance of three Give as much of a variety as possible. miles! The beauty of the Angelus bird Young chicks soon tire of the best of is equal to his talent; he is as large as feed if confined to it for any length of a jay, and as white as snow, beside being graceful in form and swift in mo-

Hens that are permitted to range all tion. But the most curious ornament of the bird is the tuft of arched feathsummer will not lay as many eggs as ers on its head; this crest is conical in form and four inches in length.

That soft feed that stands over from Cure Effected. morning till night is not just the thing The wise physician frequently finds eased" rather than to the body that as they should be.

"Oh, indeed!" she cried with enthusiasm. "Then we shall see something at minutes, so clearly and in such a re- last."

Scandalous,

Mrs. Witcherly-They say Mrs. Dickson has recently become very economical.

Mrs. Larrison-Yes, she's carrying it to an extreme, it seems to me. I hear that she's even trying to get her husband to let his whiskers grow, so as to save laundry bills.

Soon Ready.

Enthusiastic amateur-O, mamma, there's such a picturesque old vagabond! I want a snap shot of him. Tuffold Knutt (noticing that the camera is pointed in his direction)-Wait till I run me fingers t'rough me whiskers, miss. There, Go ahead,

We have noticed that when it is angonneed that a singer's voice is It necessary to "minister to a mind dis- failing the neighbors are not as sorry