

will be extended.

The Hull of Oats.

Incubators for Early Chicks.

solve to do without incubators, he can-

not very well dispense with them if he

wants the very earliest-hatched chicks.

sit steadily early in spring for suffi-

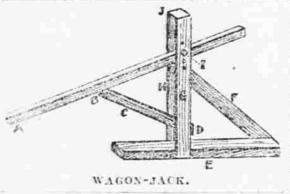
cient time to hatch out the chicks will

However resolutely a breeder may re-

All who have fed oats know that

### Good Wagon Jack.

A correspondent of the Ohio Farmer thinks that the trouble with many there is the greatest difference in their wagon-jacks is that they are inclined feeding qualities. It is largely dependto tip toward the end of the lever, if ent on the character of the hull. It the ground is a little soft or uneven. has been thought that black hulled oats Another fault is that it takes the had not only a greater amount of hull. greater part of a man's weight to raise | but that it was also coarser and rougha beauty wagon because the lever is or than white hulled oats. But there made too short. In this wagon-jack are some comparatively new varieties the lever is made long. It projects a with white hulls that are as coarse and foot beyond the bolt, which is the ful- rough as barley hulls. Most new kinds cities, at I. The advantage of this is of oats originate in cold or at least cool the lever does not have to be climates. If they are also moist, as rained or lowered at I, for the front and Ireland and Scotland are, the hulls will axle. The base, E, comes well be large but not rough. The roughest out beyond the end of the lever, A, so hulled oats have their origin in Northere is no tipping over the end of way, Sweden and Russia, lever. With this wagon-jack one can



lift a toa and a half; can take off a wheel with a big load on the wagon. It requires no blacksmith work to the cold weather comes, in which case make it. The only iron about it is a most of them, if well fed and given a bolt at L, a bolt at D, and a strap-hinge warm, light room, will continue to lay at B. The rest is all wood.

# AGRICULTURAL NEWS

THINGS PERTAINING TO THE FARM AND HOME.

Direction-Keeping Cribbed Corn Clean-Digestibility of Corn and Cob Meal-Brief Farm Notes.

The chopper approaches the tree with | 000 caterpillars in a single year. Strong a plumb-line; if the top does not lean cess can be made of them. It is a good more than two feet in the case of a plan, after laying a tile drain, to fill up large tree, or more than four feet in the green trees in one year. They not only half the depth of the ditch above it case of a small one, he considers that destroy the first foliage, but continue with loose stone. Through this the he can fall it in any direction he may their ravages as the trees put forth water will run into the tile, and each desire. He then views the ground, says new foliage, until the last of July. Gen. year, for at least ten or fifteen years, William Adams in the Engineering Lawrence, of Medford, spent in one the area of drained soil on either side | Magazine, and selects the most promising "layout," and the undercut is made exactly facing it. The "undercut" usually extends about one-third through, and then the tree is sawed in from the back to meet it. When the two cuts are the protection of Masachusetts alone. within six inches of meeting the saw is removed, and the tree is wedged up | and the moth is allowed to increase until the top passes the center of gravity, when it falls by its own weight, easily breaking the strip of wood re- other States the most dangerous and maining.

Where the surface of the ground is such that it is necessary for the butt and the top to strike the ground simultaneously, the stump is snubbed off at the undercut, which provides a slanting surface, so that the butt has no place to rest, and perforce slides to the ground. If the tree needs to be rolled off to one side, half the undercut is slanted, and a pile of chips is placed on the flat surface of the other half; the result never fails to manifest the efficacy of this device. Again, by leaving one side of the uncut wood between the Any one who has tried to get a hen to undercut and the saw-cut thicker than the other, the tree may be drawn considerably away from its natural course.

know that it is impossible. The brood-To Keep Cribbed Corn Clean. iest hen after two or three days on the When Indian corn is stored in cribs nest will probably leave the eggs and for any length of time vermin will pen- largely increase the yield of a beet ments and wishes for success. Some go to laying again. Yet it is necessary etrate into it. There are several rea- crop, and on all clover and grass plots eight barrels of this oil have been used to have the chicks hatched early, so sons why this is so. Many cribs are the increase was very marked. In on a notoriously muddy road near Keothat they begin laying next fail before built too low on the ground. Rats and cases where land for oats was limed kuk with most satisfactory results. mice will quickly burrow into the soft, the results were also good. The use dry dirt beneath such a crib. Once of lime should be more general, in the ble anywhere to keep dry roads in good there it is almost impossible to get rid face of the results obtained, whether condition at minimum expense. Oil from the supply of their employer, and of them. The spaces between the boards | the soil is heavy or light, as the cost | will prevent the earth from becoming | when the shortage is discovered it is or rails of a corn crib are generally too was but little, comparatively. Food wet by forming a waterproof crust. So generally charged to the laundry. Lots Wishing to keep my milk as clean as wide. A space of about two inches will grown on limed land is probably better far as he has carried on experiments, of times we know perfectly well that early in the spring before the buds possible, says a Hoard's Dairyman admit a great deal of dirt; besides, it is relished, and if the land receives fer- a barrel of crude oil is sufficient for a the things claimed were never sent in, All cribs should be built at least six | ing. pail, which I have | inches above the ground. It would be better if there was a space of a foot or more between the floor and the ground. This space should be tightly boarded up. No vermin could gain a permanent foothold beneath a crib thus built. The sleepers on which the floor rests should slightly convex have smooth, even surfaces. The boards upper surface and of the floor should be laid together as closely as possible. By doing this the farmer will help to rid himself of the grain worms and grain weevils which and three or four | exist in large numbers beneath an iminches high extending upward. The perfectly made floor. Instead of using tubes are placed about two inches and six-inch boards on the sides of his spring. If there are dead trees or bad- a half apart and about the same dis- crib, with spaces of two inches between them, the farmer who wishes to keep milkman holds the pail between his his corn free of mice and dirt should knees, with tubes of the cover on the use four-inch boards, with one-half opposite side from him, and milks with inch spaces between. If he builds rail cribs, some of the rails should be hewn at the ends. Closely woven wire netting or slats would be excellent to prevent the gnawing of the boards, besides preserving their usefulness.-Orange Judd Farmer.

the production of eggs pay. Not only should we be dependent on ourselves, but other countries should be dependent upon us.-Farm and Fireside.

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Fighting the Gypsy Moth. As showing how formidable a pest the gypsy moth is to contend with in How a Big Tree May Be Felled in Any Massachusetts, it is stated that 2,070 nests were found on a single tree, each of which had between 500 and 600 eggs. This one tree was carrying through the winter a prospective increase of 1,035,celonies, if undisturbed, will kill most deciduous trees in two years, and ever-

> season more than \$3,000 in the effort to protect the trees on his own premises, but failed and was obliged to call on the State employes. It is urged that the battle against this insect is not for for if the work should be discontinued, along the highways and railroads, the inevitable result will be to carry into destructive insect pest ever introduced into this country.-Hartford Times.

> > Fxperiments with Lime.



Crude Oit on Country Foods. Major M. Meigs, a civil engineer of Keokuk, Iowa, made a short address odd Features of a Boudoir for "Sweet

at the session of the Missouri Good Roads Association, which in the opin- A charming room fitted up recently ion of many was the most interesting by a clever mother for her 16-year-old part of the day's work. He opened a | daughter has several odd features. One new field of investigation, and pro- of these is an alcove where a big bathposed experiments in securing good tub, a regiment of sponges, crash towroads along a line practically unknown els and brushes are drawn up in battle outside of a few localities in the East. array. In one corner is a gymnastic It is his opinion that the use of crude | apparatus and on the floor stand a pair oil may prove a panacea for bad roads of Indian clubs. This is the "health in localities where road material is corner." In a narrow gold frame, hung hard to obtain.

He said his attention was first directed to using oil on the highways by | fully illuminated text: Pennsylvania town. It seems that a patent creams and washes. leaky oil pipe near the town in question was responsible for the discovery. | you admire a double chin. This pipe was near a place in the road

the season of spring and fall rains. Experiments made with lime at the When the leak occurred in the pipe the Rhode Island station show that lime ground became saturated to some exgives wonderful results on clover and tent with oil, and very soon it was nograss, even if it has been well treated ticed that the mud dried up and the mind that the American woman's with fertilizers. Beets also respond surface of the earth became hard and readily to lime, and the gain is remark- remained so. It appears that so notoable where lime was used. The ex- rious was this piece of bad road that periments were made on plots treated | the effect of the oil on it became a matalike in every respect, except that air- ter of so much comment that presently slaked lime would be used on one and the experiment was repeated in other left out for the other. On one plot the localities, and with the same effect. yield of beets was doubled compared | Major Meigs said that he sent a letwith the one unlimed, and on another | ter to the officials of the Standard Oll farm the yield of beets on the limed Company and asked them to furnish land was over nine times as much as him some crude oil for experimental on the other plot. The experiments purposes. They forwarded a tank condemonstrate conclusively that lime will taining 130 barrels, with their compli-Major Meigs said that it was no trou-

the rear of my store, hade me goodevening and rode away. I didn't know for certain who my visitor was, although I suspected it, until the next day, when I heard that a man in the neighborhood was telling that he had seen the elder James the afternoon before. I suppose that was the last shave Jesse James got in Kentucky, and I have never seen him since."-Louisville Post.

## FOR A GIRL.

Sixteen."

near the dainty dressing table, are the following "Rules for Beauty" in fanci-

reading a newspaper clipping from a "Beauty is only skin deep. Don't use

"Never sleep on a high pillow unless

"Breathe from the diaphragm, inhale that was invariably impassable during deeply, keep the mouth closed and hold the chest well up, if you would secure a high chest, broad shoulders and a slim waist.

> "Walk from the hips, and bear in greatest sins are a wobbling walk and a shrill voice.

"Beauty does not come in a day.

"The secret of beauty is good blood, excellent digestion and a clear conscience."

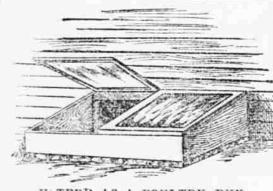
These wise and quaint precepts were laid down by the family physician, who knows a good deal about the soda-water-loving and caramel-eating age of 16. -New York Commercial Advertiser.

Where Missing Laundry Goes To. "Dishonest household servants cause the laundries no end of trouble," remarked an employe of a down-town concern. "It's a common thing for them to annex a few shirts or collars, and now and then a stray handkerchief but pay for them rather than have a wide. The cost of the oil at the wells | row and lose a good customer. A lady is about 90 cents a barrel. No other of this city lost several fine lace handmaterial, he said, is so cheap, and no kerchiefs about a year ago, and insistother will prove so effective. In con- ed that they were sent to the shop but dusion, he said that he would send oil never returned. She was perfectly sincere, and the bill was paid. Last week the handkerchiefs turned up. They were sent in with a bundle of things from another part of the town. and when we came to trace them we found they had passed through four different hands. The original thief was a mulatto maid servant who had disappeared. On another ocasion a gentleman lost several collars, and was very angry. He said he was continually losing articles that way, and brought his negro porter along to provo that they had been sent in. The manager was about to hand over the value of the linen when he happened to nocut into it to a depth of one or two lice that the darky was wearing a very feet, according to circumstances, and handsome collar, and told him to take if the horses are able to get through it off. He protested vigorously, but it it safely with an empty wagon at the was secured, and proved to be one of rate of one mile an hour it is not in- the lot. The rest were found in his

## When to Spray.

The first spraying should be done open, and it must be done thoroughly. correspondent, I got the tinner to make. a wide open door for mice. The second should be done after the trees are through blossoming, while "the third may come in to twenty days later. The fourth spraying is due about three weeks later. A tree is sufficiently such yed when the drops of the mixture are seen hanging from the branches and leaves. Many orchard trees besides spraying need a thorough scraping as in the case of the elm trees. Then the brush and other waste matter, including all dead leaves and rubbish, must be removed from the grounds and burned. Do not leave it near the trees or in the roadway, for the eggs deposited therein will hatch in the ly diseased ones here and there in the orchard cut them down and burn them. -M. Goldman.

Serves a Double Purpose. The cut shows a hotbed that is buil. against the south side of the poultry house, serving all through the winter as a sunny scratching place for the fowls. These are shut out at the approuch of spring and the hotbed start-



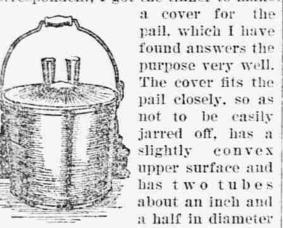
H THED AS A POULTRY RUN.

ed. About the time the plants are started the fowls will be getting out upon the ground, while all through the the spring.-American Agriculturist.

#### The Bite of a Hog.

There is great danger of blood poisoning if a hog bits the flesh. There is the saliva, as the hog is a very indiscriminate feeder and not at all cleanly. When a hog is made angry the amount of this saliva is greatly increased, and the danger is greater. Even a slight contusion from a hog's tooth should be promptly washed out with some antiseptic. Dilute carbolic acid, one part of the acid to 2,000 of water, is good and always a reliable antiseptic. Some should always be kept where it can be handily procured, to put on cuts or outside injuries received on any part of the body. It will greatly hasten their healing.

To Keep Milk Clean.



through the winter.

PAIL COVER.

tance from the edge of the cover. The each hand directly into the tubes.

## Su flowers.

In 1842 a Russian farmer named Bokareff conceived the idea of extracting oil from the seed of the sunflower. His neighbor told him it was a vision-

ary idea and that he would have his labor for his pains. He persevered, however, and from that humble beginning the industry has expanded to enormous proportions. To-day more than 7,000,-000 acres of land in Russia are devoted to the cultivation of the sunflower. 91/2 per cent of protein and 70 per cent. found that are altogether so, and seed-Two kinds are grown, one with small seeds, which are crushed for oil, and the other with larger seeds, that are consumed by the poorer people in enormous quantities.-Farm, Field and Fireside.

# Too Good to Pe a Farmer.

The cause of the scarcity of agriculdeep snows of winter they will have an trural students goes about as far back exceedingly sunny space to run. Make as total depravity. The trouble does the holbed large enough to give suffi- not begin in the college, but in the icient scratching space. The room can kindergarten. Almost as soon as the well be utilized with early plants in boy goes into school he finds a schoolma'am who tells him he is too good a fellow to be a farmer. If he is bright

he must go to college and be a minister. So he goes to a classical college, and in just about sixty cases out of 100 no toison in the hog's teeth as there is turns out a nonentity. It is to be feared in the fangs of a poisonous snake. It that some of the teachers in the agriis rather the poison which comes from | cultural colleges exert the same influence as the schoolma'am alluded to .-Orange Judd Farmer.

# Smallest Tree.

The smallest tree in the world is the Greenland birch. Its height is less than three inches, yet it covers a radius of two or three feet.

## Sheep Shearing. Cull out the poor rams.

#### Corn and Cob Meal.

A comparison of the constituent substances and their digestibility of corn meal and corn and cob meal will make the matter perhaps plain. Corn meal they have become seedless. We have contains about 131/2 per cent. of water, now apples and pears that are almost 11/2 per cent. of ash, 31/2 per cent. of fat, seedless, specimens frequently being of starch, etc. Corn cobs contain about | less grapes and oranges are not at all 101/2 per cent. of water, 11/2 per cent. of uncommon. The banana has no seeds ash, 2½ per cent. of protein, one-half or at best only rudimentary ones, and of 1 per cent. of fat, and 55 per cent. of the pineapple is a seedless fruit. All starch, etc. It will be noticed that the this must have taken long years of secorn meal contains nearly four times as | lection, whether it was done intelligentmuch protein as the cob meal, and sev- ly or by chance, and all seedless fruits en times as much fat. Of indigestible are valued because they are usually of crude fiber the corn meal contains but | superior sorts. 2 per cent., while the corn cob meal A story is going the rounds that a contains 30 per cent. It will be no- melon grower has discovered a method ticed, therefore, that there is nearly of producing seedless melons. This is one-third of the cob meal that is indi- to cover the joints of the vines until gestible, but it contains a fair propor- roots start from them, and then cut tion of digestible matter, however. The them off at the roots, leaving the seccause greater digestibility is thus secured to both substances, while the mechanical action of the cob meal is considered an advantage.

#### Froduction of Eggs.

In winter the egg markets in the citles are never supplied with fresh eggs. Even in summer, when the prices are sometimes low, the cost of keeping the fowls is greatly decreased; in fact, on the farm the cost is barely noticeable, and the egg production steadily increases. It is a great mistake to select the best pullets and send them to mar- necessary in this climate to provide a ket in the fall and early winter, and rehave a proper allowance of food and always a supply of fresh water, for in winter all domesticated members of the for proper care. Our farmers may not only supply our own markets, but provide eggs for export. It is said that to supply the New York market alone. If this be true, consider how small the egg production of this country really is. We should depend on ourselves, keep efit our country. Poultry raising and he fails to act the part.

tilizers or manure the results are last- strip of road 100 feet long and 12 feet

# Potatoes in Orchard,

The potato crop is probably the most exacting in its requirements of labor at special times of any that the Northern free to all wishing to make experiments farmer can grow. In cultivating, deif they would pay the freight,-St. stroying bugs and harvesting a little Louis Republic. delay involves the loss of everything Evils in Roadmaking. that has heretofore been done. All A very common evil in roadmaking these operations are going on while

is the use of bad materials. Nothing is labor is needed in cultivating corn. more common than to scrape a fine, Hence farmers who make a specialty rich, mucky top soil into a high ridge, of one crop cannot well grow the other called a "turnpike," and on which wagextensively. A large orchard in bearons are expected to travel. The maing also interferes with success in growterial thus scraped into a deep mellow ing potatoes. The harvesting and bed would be very fine for the growth marketing of one is pretty sure to be of corn, potatoes or white turnips, but nearly simultaneous with that of the it makes the most intolerable roads. other. It was the practice of a shrewd When the rains soften it the wheels farmer who owned a large apple orchard to wait until his apple trees blossomed before deciding whether to plant largely of potatoes or not. He had learned by experience that the two crops greatly interfered with each frequently quite as much as they can trunk. other, and often made one or the other sasily perform. of them unprofitable.-Hartford Times.

Road Repairing.

Road Inspector Thomas Malley, of A good many varieties of fruits have Morris County, New Jersey, says that "the scheme of pouring screenings on a road to repair it is very expensive and utterly worthless. The first hard rain carries away the screenings or they grind up and are blown away in the first dry spell. Experience shows that until a road needs three-quarter inch stone it needs nothing. With this size stone as a basis, a little binder and screenings, all well rolled, will make the road as good as new."

## Comic Pictures in Old Egypt.

Bey, in Zeit. Aegypt., describes a comic papyrus, unique of its kind. The artist painted burlesque scenes in which cats | 'The Banks of Allan Water.' ' and rats conduct themselves in a human fashion, and the manners of cats are attributed to rats, and inversely. corn and cobs are ground together be- ondary roots to support the vine. This In the first scene, a rat, attired as a grand dame, is served by a cat that is clothed as a slave and is presenting a mirror to the mistress. In the next lord, "run out and get to know what scene a rat has the traits of a young | that fellow's singing." Egyptian dandy, and an obsequious cat. having shaved him, places on his head a huge peruke. In the third sketch, a cat cradles in her arms a young rat in the manner of a nurse. Mr. Brugsch | right?" thinks the artist lived in the period of the twenty-second dynasty.

# Shaving a Pursued Bandit.

"I shaved Jesse James, the once noted outlaw, down in southern Kentucky a

while he looked after his Colt's revolv-

with a nev Wade & Butcher razor 1

a bank at Russellville, a crime, he aver-

#### Music Hath Charms.

A couple of sailors, returned from a long voyage, strolled into the bar parlor of a public house near the docks.

Above the rumble of the traffic in the. street could be heard at intervals a harsh, unmusical voice.

After listening intently for a moment one of the sailors turned to his companion and said:

"Eh, Jack, lad; it's a long time since we heard that song." "What song?"

"The one that fellow's singing in the street-"The Light of Other Days.""

"Stow it?" ejaculated the other gruffly. "That fellow ain't singing "The Light of Other Days' at all, man. I've been listening to him. He's a-piping

Each sailor was certain he was right, and, with characteristic contempt for money, a wager was made-a month's wages depended on the result.

"Here, Tommy!" called out one of the men to the little son of the land-

Tommy departed on his errand, which did not take many minutes.

"Well," demanded Jack when the youngster returned, "which of us is

"Naythur," replied Tommy, grinning. "The feller's not singing. He's hawking fly-papers!"-Answers.

#### Potatoes Betray Nationality.

One of the easiest ways to tell the nationality of the persons living in any locality is to go into a grocery store. It's not necessary to look at the name of the grocer. A glance at the potatoes in stock will be sufficient. If the grocer is supplied with potatoes of the largest size, any one of and asked me if I wouldn't shave him which is a meal, it is certain that he deals exclusively with Irishmen. They like their Murphies large. If the potabarber by trade, but those persuaders toes are small their consumers are Jesse had induced me to try my hand Frenchmen. They think a big potato is indelicate and does not look well. Germans insist on having their potatoes of medium size. They can't stand them either too large or small. Americans few hurried words that a posse was and English don't care what size they dead or alive, on the charge of robbing are, as long as they are good.

been grown so long from cuttings that

'eedless Fruits.

sounds quite nice, and the only trouble with it is that it isn't true. If we could produce seedless melons in this way it would be a valuable discovery, but having been tried it was found that the melons had the usual number of seeds,

as usual in the sweetest part of the melon.-Farmers' Voice.

# Keeping Apples.

The proper temperature for keeping apples is as nearly 35 degrees Fahrenheit as it is possible to keep it, and in order to maintain this it will often be

A German savant, Emile Brugsch

#### Varly Weeds,

There are many different kinds of weeds and some of them start off early in the spring, almost before the frost leaves the ground. It is the early weeds that give the farmer the most trouble. If the land was plowed last fall cross plow it the coming spring, and then harrow or cultivate it as often as can be done until time to put in the seed. Every time the land is cultivated more | flock is out of reach of the frost, and is weeds will germinate to be killed, and pure. the more weeds that can be destroyed before the regular crop starts the fewer there will be to combat later on.

## Making Clay Land Pay.

A rundown farm of any kind of soil is hard to reclaim, but if the soil be fertility, that only requires thorough on even lots.

Keep a good dip near at hand. Arrange to sell your feeders early, Have salt constantly before the sheep.

Be thoroughly posted on the market before shipping.

Culls which are not fat should not be shipped to market.

Don't feed corn but twice a day. Too much is worse than too little. Be certain that there are not ticks or lice on the sheep.

Be sure that the water supply for the

There should be a thorough inspection of the feet of every member of the flock, and the proper trimming should be done.

Care should be taken that sheep shipped to market are as even in size and heavy it probably has much unused weight as possible. Prices are better

separate place for storing the fruit, as | long time ago," said an old gray-haired serve the culls and old hens, and from the average cellar under the dwelling fellow on the train the other day,"when them expect the egg supply during the house is wholly unfit for this purpose, the man's life wasn't worth a penny. winter. These fowls, if confined for a If the cellar consist of several compart- Jesse rushed into my little country few days in a fattening coop, can be ments so that one can be shut off com- place, down in the Red River country, made ready for market, and then farm- pletely from the others and the tem- one day in the later part of December ers can retain the true egg producers at perature in this kept below 40 degrees, home. Of course it is expected that it will answer the purpose very well. every one will be humane enough to If this cannot be done, a cheap storage ers and watched the door. I was not a prepare warm and dry quarters for house may be built in connection with their poultry, besides see that they the ice house, by building a room underneath, having it surrounded with ice on the sides and overhead, with fa- took out of my showcase. As I shaved, cilities for drainage underneath, keep- | the man of iron nerve sat with a cocked barn yard are forced to depend on man ing the air dry by means of chloride of pistol in each hand and told me in a calcium placed on the floor in an open water-tight vessel, such as a large milk pursuing him bent on capturing him. crock or pan. In this way the temperthe egg supply from our three largest ature may be kept very near the freezegg-producing States is not sufficient | ing point the year round, and apples may be kept almost indefinitely .-- Farm

Journal.

red, of which he was not guilty. He Man claims to be lord of all creation,

The Voice of Caution. "She's pretty enough to bite." "Yes, but there's lead poisoning in all those face preparations."-Cleveland Plain Dealer.

Professional wrestlers are speculators

wanted his beard shaved off that he might fool his pursuers if they should happen to catch up with him. I finished the job of scraping. The much-wantthis amount of money at home and ben- but when a savage bulldog chases him ed individual thanked me, and, mounting a horse which had been bitched in for a fall.