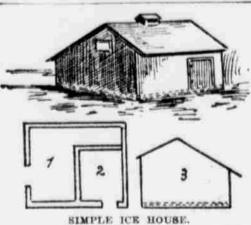


Ice and Cold Storage House.

While many farmers consider an ice frawing it will be found profitable. Even in sections where ice is scarce such a structure would be worth all it sost to a fruit grower who desired to hold back his products in cold storage.

of any lumber obtainable, the essential thing being to have it with an inper wall a foot from the outer wall

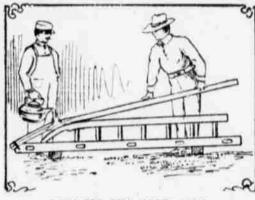


and this space filled in hard with sawdust, straw, leaves or any similar material. Then pack on the bottom of the floor a foot of straw or hay or sawdust and on this lay the cakes of ice, filling In between them cracked ice, and, if the weather is freezing, pouring water over each layer as it is filled in. Divide off a portion of the space for a cold storage room, as shown in the lower part of the illustration and one has a place where fruit, milk and butter may be kept in good condition during the warmest days of summer. Try an ice house, even though it be but a small one, and you will be surprised to see how little it will cost and how useful it is.

Half-Soling the Sted.

Soles made of poles are almost a thing of the past since the sawed ones have come into use. There are still some who do not use the sawed soles because of not knowing how to put them on, after they have become dry, without breaking or splitting them.

The illustration shows how the trick is done. A teakettle full of boiling water, poured on very gradually while the sole is being sprung, is all that is necessary in almost every instance. The stream should be no larger than a lead pencil, and poured on continually. Any one who has never tried this method will be surprised how



BENDING THE SLED SOLE.

quickly the sole will bend down into its place.-R. A. Galliher, in Farm and Home.

Winter Fruit Tree Pruning.

While the early spring pruning and the summer pinching back of the small shoots covers the main pruning of the fruit trees, much good work may be done during the open days of winter which will, at least, save time in the spring. Broken limbs may be removed and many of the inside limbs which are overlapping the fruiting twigs can be cut off during the winter as well as in the spring. The work of pruning should always be done with a saw on limbs two large to cut with a sharp knife; in pruning saw from the under side of the limb first, sawing up a quarter or a The natural consequence of promiscu half through and finishing from the ous commingling of fowls is that the top. This will result in a clean cut and largest and strongest take their choice there will be no splintering, as would and leave the refuse to be eaten by the be the case if a heavy limb was cut weaker, whereas the best should be through from the top. In the winter pruning of orchards keep your eyes open and note the condition of the tree. so that at the proper time any remedy for any trouble found may be applied.

Maturity of Fowls.

The Leghorns may mature in six months, but with the larger breeds a fowl is not matured if under one year of age; and it is a settled conclusion that neither animals nor poultry should be used for breeding until the system has had time to develop and make His average for many years was no complete growth. Pullets sometimes less than twenty cows night and morn begin to lay before they are fully ing. He milked one cow nineteen year matured, but in such cases their eggs and about ten months in the year. In should not be used for hatching pur- the year 1879 twenty cows gave hin poses. The use of eggs from pullets 100,000 pounds of milk, which netter that have not completed their growth him from the cheese factory \$1,600, be is sure to injure the flock if the practice is continued for several years.

Cout of Raising Corn.

The present low price of corn and he enormous quantity which is piled up in bins and warehouses everywhere in this country is the most emphatic evidence that corn can be produced at a very low cost, and it is plain from the experience of hundreds of corn raisers that there is a profit in producing corn on a large scale, even at the present low prices, for many thousands of farmers have made a good living and laid some profit by from their

It is perfectly true that the man with a small farm, devoted exclusively house a luxury that is not for them, to corn raising, can get only a very building such as is shown in the cut precarious living out of corn when the may be erected at small cost, and if price is under 25 cents on the farm. the ice can be had for the cutting and But even the small farmer can assure himself of a substantial surplus with the prospect of a substantial surplus, some years, if he devotes a part of his land to raising the products which he needs for his family, and raises To make the house cheap build it corn, well cultivated and carefully cared for, on the rest of it.

> It must not be forgotten that the present low price of corn is due to two years of very extraordinary yields, and though this year's crop is moderate. by comparison with those years, the surplus in the country, added to what ply in the country about as large as of production of the corn which most farmers have on hand at the present time, must be figured on the basis of large yields, so that, even at present low prices, the great bulk of the corn more than what it has cost the farmer the moment. to produce it.

> > For Sitting Hens.

Mrs. Amanda Wilson writes to the Iowa Homestead: "I have been very much annoyed at times with persistent sitting hens, I have tried several methods of preventing



coop about two feet square and two feet high made of lath and attached to a rope, as shown in the illustration. Place

broody, and have at

last hit upon a simple

the hen inside the coop and let is swing about eighteen inches from the ground. The excitement of the curi ous chickens which stand around or the outside will quickly dispel the hatching idea from the most persistent sitting hen. Feed and water should be given the same as usual."

Advantages of Farm Life.

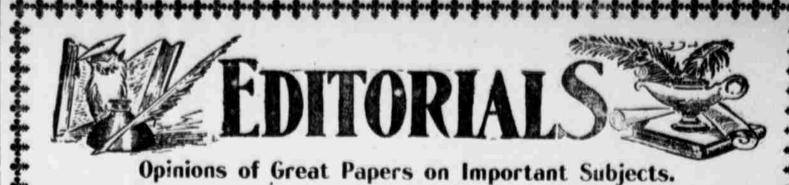
It is the farmers' boys who are mos likely to succeed, whether in business or in professional life. Spending mos of their time under the open sky er little things keep them well occupied to produce.—Kansas City Journal. and enable them to feel that they are earning their way, thus giving to then a sense of independence and cultivat ing a spirit of self-reliance and manli ness. The performance of a deal of drudgery is an indispensable prepara tion for all real success in life, what ever the occupation. A boy who h afraid of work or of soiling his hand in the world. Country boys have their full share of fun, but there are many speaking of the value of his farn Germany, and the United States. training when a boy, once said to me 'I learned one thing of great value and that was to do disagreeable thing heerfully."-Josiah Strong, in Success

Indiscriminate Feeding.

On some farms all kinds of poultry are fed together, old and young, and geese, ducks, turkeys and chickens There are always domineering indi viduals in all barnyards, hence it wil be an advantage to separate the olde from the younger stock when feeding given to the poorest in order to help them to a condition of thrift and growth. It is also more economical to make some distinction when feeding especially when a profit is desired.

The Milkman's Steady Job.

A veteran New York State dairymai who has been in the business over hal a century says that commencing in 1876 he was away from home but om night in about twenty-two years. He the anchor would send the anchor always used to do his own milking sides having his whey to feed to th hogs and calves.



Matrimony and Dyspeps'a.



T is not good for man or woman to cat alone, Thus medical authority has spoken for years. The solitary diner out, having no company before him, other than his food, swallows it improperly masticated, hurrles one course upon another before the stomach can properly adjust itself to the conditions that tax it, and acquires a dyspepsia that distress him severely and makes life a bine

The increase in dyspepsia and kindred aliments, so one who has been gathering information asserts, is largely due to the independence manifested by both sexes regarding matrimony. In other words, were there fewer bachelors and bachelor maidens there would be less demand for tonics to brace up an impaired digestion.

In spite of the orthodox joke about the young wife was produced this year, makes the sup ruining her husband's digestive apparatus by her attempts at cookery, it is established that there are, in reality, much it was ever known to be, and the cost fewer cases of dyspepsia among the wedded than among those who choose to remain single.

Food consumption should be a task of slow process. and the mind should be free from care and unnecessary excitement during the meal hour. This is best established when two persons dine together and enjoy such good-nain the country represents a good deal tured chaff, raillery or interesting chat as diverts them for

A few are so gifted as to be able to dine alone and dine deliberately by the amusement derived from their surroundings, but the rule is, as the restaurant-keepers can well testify to, that the single diner cats his meal in from one-third to one-half the time taken by those who dine in

The inference, of course, established by this research is that matrimony is a good thing for dyspepsia, and possibly this fact may establish a new line of thought in some them from becoming crusty bachelors and fussy bachelor maidens, who are unable to eat a meal without topping it off with a few specially prepared tablets and nostrums to help out their poor stomachs.-New York Telegram.

Farming a Great Industry.



HE annual report of the Secretary of Agriculture shows that farming is still the chief business of the people of the United States. Fast as our other industries have grown, especially within recent years, agriculture still far surpasses any of them in the amount of its capital, in the value of its products and in the

number of people engaged in it.

We have been boasting of the rapidity with which our exports of manufactured goods have increased, of our "conquests of the markets of the world," but Secretary Wilson shows that the balance of trade in all products except those of agriculture ran against us \$865,000,000 during the last fourteen years. The balance of trade in agricultural products was \$4,806,000,000 in our favor, however, so that the total balance in our favor, thanks to the farmbreathing fresh air, and eating simple er, was \$3,940,000,000. While we have not been able to food, they are more likely to have vig turn out or, at least, have not turned out-enough of other orous health and strong constitution commodities to supply our wants, we have raised enough than are their city cousins. Brough farm produce not only to meet our own demands, but to into constant contact with nature, they feed a large part of the rest of the world; and the agriabsorb a great deal of useful knowi cultural lands of the country still possess large resources edge, and acquire habits of observa that never have been exploited. In the couse of time the tion. Then, too, the regular farn country's industrial population no doubt will become so work, the "chores" and numberless oth great as to consume all the food that the land can be forced

English as the World's Language.



HERE is a significance, more important and far-reaching than appears on the surface, in the announcement that the English language is to be the medium employed in the arbitration of has so long been the custom, still very generally in vogue, for such exchanges to be carried on in

need not expect to accomplish mucl French that French has become recognized as the diplomatic tongue, the language to be observed in international causes and in the interchange of communications between disagreeable duties on a farm which nations. The first radical departure from this rule was in farmers' boys learn to accept as 1 1889, when English was used in the international parliamatter of course. Edward Eggleston ment that settled the Samoan dispute between England,

The growth of the United States as a world power has substitute. Buffalo Commercial.

undoubtedly had a greater influence in this step toward making English the universal language than any other cause. This nation is now an interested party in any disputes that may arise in the Pacific. She has her Interests in China, by reason of the united action of the Powers during the Boxer revolt, and her position as arbitrator and peace preserver in South America has become more prononneed with the development of that continent and its American continent. Russia, it is true, has a larger popupean countries. More people speak the Euglish language than use any other tongue spoken in Europe or on the American continent: Russia, it is true, has a larger population than the United States and Great Britain combined. but millions of her citizens do not speak the Russian language. Aside from other considerations, there is a force and directness to plain English that are not found in any other tongue, and international relations are new such that plain, direct, concise terms are needed to avoid complications. The adoption of English as the diplomatic language is but a natural step in the right direction. - Washngton Post.

How We Catch Colds.



HE London Hospital, a medical magazine, maintains that colds are caught, the colds that have nasal catarrh for their chief symptom, in the same way that other infectious diseases are caught, by the lodgment of a germ. The character of the germ is not specified. This is no new discovery or theory. Knowing persons

have long been careful about exposing themselves to infection by persons who have a cold, lest they "catch" it. The old notion that a cold is result of exposure to draught or to cold air, or of getting the feet wet, has been abandoned, although it is true that one may get a chill in that way which will afford some of the symptoms and sensations of the nasal catarrh caused by a noxious germ. It is safer to aveid close contact, and all unnecessary contact. with a person who has this cold. A horse that has been wintered out often catches a cold upon being brought into the stable in the spring. Experiments with disinfectants have shown that it is not the warmth of the stable that induces the cold. Arctic voyagers are commonly free of colds until their return to a community where they prevail. In the small rocky island of St. Kilda, one of the Western Hebrides, Scotland, colds are unknown except when it is visited by some vessel, and it is said that the inhabitants can distinguish between the different kinds of colds brought by different ships. There is much similar evidence relating to the subject, and the Hospital declares that "some source of infection must be present before is is possible to catch cold." What appears to be needed is a specific germielde which may be used either for prevention or cure.-Boston Herald.

Fuel from the Marshes.



series of experiments has lately been conducted under the auspices of the Massachusetts Institute of Technology, into the fuet value of marsh mud. Now the announcement is made that this material contains the elements of coal to an equal if not greater amount than peat The fact is well known that the mud bogs of

Holland, of some parts of Germany, and yet more of Russla, are being worked commercially on an extensive scale for the supply of what is in fact artificial coal, resembling it in appearance, in specific gravity, in heat units and in effective service. In this country, Mr. Edward Atkinson says, we may be justified in considering it proved that New England and many other sections, distant from coal mines, are in possession of material that can be converted into domestic fuel at lower cost than any coal can be secured, and in many respects of better quality for cooking and other domestic purposes. It is also available the Venezuelan dispute at The Hague court. It for gas production; also for conversion into coke at lower cost and of purer quality than any other fuel that can be obtained in New England. Mr. Atkinson considers the secret of conversion to be solved; and he also asks this question: 'May it not be possible that the Irish peasants who have been converting the turf of their hill slopes into domestic fuel for generations have taught the scientists a lesson in heat and power which they had wholly overlooked?" As long as New England cannot have natural gas, she may find "mud ceal" from the marshes a good

BATTLING WITH AN ANCHOR.

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To Lefst to the cat-head an anchor weighing eight thousand pounds, with a gale of wind blowing and a tremendous sea rising, is a difficult task. The New York Sun tells how this work was undertaken on a warship in Hampton Roads. In order to raise the anchor to the deck of the ship the hundred-pound carblock had to be fastened by the huge book which depended from it to the ring in the baluneing band on the anchor shank so that the power of the winch could be

The great anchor hung so that when the wave receded it was clear of the water, but each incoming crest submerged it several feet. As the ship tossed on the wayes there was great danger that the cosmous weight of through her thin dating. But with seas nig enough to loss the ship about is easily as if she were a fishingfloat, and to swing that anchor back and forth like the pendulum of a toy clock, it was no child's game to hook the vat-block.

Two men were chosen, each a fine specimen of the American sailor, Just |

ready to haul away in case of need. was well out of water, over they went. They had hardly reached the anchor when a wave rolled in that surged four

water they jumped to their work and si ove to get the block in place. With the ship hauling one way and the wind blowing another there was small chance for them to drag that hundredpeund block in Mill a third way. Again and again they had it almost fastened, when a great wave knocked it away and buried them far out of sight. Still the two men struggled at their task.

Then the inevitable happened. The great cat-block swung far out as the ship plunged forward, hung poised an instant, as if taking deliberate aim. and came sweeping back straight at the head of one of the two men. It struck him on the back of the head and knocked him ten feet from the anchor into the sea.

The rush of an incoming wave swept him away from the ship, and for a moment it seemed as if he would surely be lost. Then was justified the wisunder the arms of each a line was dom which had placed the line about is marble heart.

him in unconscious but safe, and in The two sailors watched their ten minutes he was declaring to the chance, and, when the ship's head officer in charge that he could surely hook that block next time.

But the captain had formed another plan. He determined to haul up the feet above their heads. When it anchor as far as was possible, so that passeds both were elinging, almost it should have the smallest room for breathless, to the shank of the an play, and to make harbor. Just at nightfall she reached quiet waters. But the instant they were clear of and once more the unruly anchor was let go again,

A Good Start.

Two natives of the soil in a New England village were overheard disassing the prospects of one Jim Means, who had forsaken a factory for agricultural pursuits.

"I hear that Jim has gone to farmin'," said one of the village worthles.

"Yaas, he has," was the drawling reply, "but he ain't went into it very steep yit. He has hired a hoss for the summer an' rented a keow an' borrowed a hen to put a settin' of eggs under, an' his folks has give him a peeg, but he ain't farmin' it on the scale I bear they do out West."

"No." assented the other; "still, he's got considdable of a start, an' ort to do well if his eggs hatch an' his peeg thrives an' the keow is a good buttermaker."

It takes a lot of cold cash to melt