

# The Silo.

The round silo is preferable to the square one. And two smaller ones are better than one large one when the enslinge is needed for summer feeding. A less quantity is exposed.

## Markets Near Home.

Markets exist in the small towns, as well as in large cities. Farmers ship heir produce to cities when their nearest towns may be buying from the cities in order to supply the home demand. 110

# No Food For All Purposet.

There is no perfect food for all purs to be accomplished. If the object is to fatten an animal the food should contain a larger proportion of corn than if the desire is to promote growth. Of the various foods, grass is equal to any, as it is rich in mineral matter and is also an assistant in fattening because it promotes digestion and is eaten slowly. For milk production grass may be assisted by the concentrated foods and also by hay, but only a variety of food is perfect for any purpose. ----

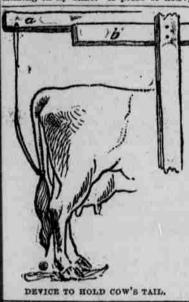
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Have Regular Feeding Hours. The Oregon station made a test of the importance of regular hours for feeding and milking cows. They took six cows and divided them into two lots as near alike as to age and length of time in milk as they could. One lot was fed and milked regularly at 5.30 s. m. and 2.30 p. m., while the other lot was fed and milked at hours ranging from 5 to 7 a. m. and from 4 to 6 p. m. This was kept up for three weeks, the amount of feed being the same for each lot. As a result those fed and milked regularly increased their milk production 5.9 per cent. while the other lot shrank 4.4 ner cent This difference of about ten per cent. in three weeks emphasizes what we have said so often: Feed and milk

# Ser. A Clean Cow Tall.

regularly.

The simple device here illustrated can be used in nearly every cow stable to keep the tails clean, and prevent the cows from switching during milking in fly time. A piece of heavy



rd, with a loop in each end, is fasd above the cow at a, and the other nd slipped around her tail as shown. all out of the gutter and filth. When out to milk, hang the cord over a cam or a hook at b, which will pull he tall above harm's way.-Orange udd Farmer.

growers, although a bad thing for the general run of farmers. It is during such seasons that the expert show his superior knowedge of condition and when his science and skill prov their worth. It is during averse sonsons when modern intensive culture makes the highest showing, for while other crops are producing only half the average yield, the farmer who un-

derstands his business well and prac-tices the latest methods is making his crop yield a third of half more With prices ruling high, this extra yield means for him all profit. In full cosons, when prices are depressed by the abundance of yield, he may not get enough for his crop to pay for the actual work. So it is that during poor seasons we find the best growers mak

ing less complaint, and sometimes actually rejolcing. A full crop of potatoes, when prices

are high, as they have been this year, will net higher profits per acre than any other crop that we can grow, and even a three-quarters crop should yield profit sufficient to pay hig wages Therefore we find plenty of growers not at all discouraged over the past season's results. On the contrary they are more convinced than ever that there is money in potntoes, but more especially in intensive, modern culture One such season in the past is enough to convince many of this. A high yield of excellent market potntoes can be

accomplished only through-intensive culture in good seasons; but when the weather, seed and insects are all against the crop, one is particularly thankful that nothing has been left un done to get the best from the soil. Intelligent culture pays at any time, but in poor seasons it pays better than any time. In fact, it is the only cul ture that pays at all during such seasons .-- C. L. Maganus, in American Cultivator.

# Root Grafting Apple Trees.

The apple is propagated by root grafting by large growers of nursery stock, but not so much by those who grow only small quantities of trees. The value of trees grown from root grafts, as compared with budded trees is much discussed, and root-grafted trees are much praised by some and condemned by others, and probably both sides are right under certain con-

ditions. A good strong root in a perfectly healthy condition, skillfully grafted early in the winter, carefully packed, kept in a cool, moist place and carefully planted in the spring will no

doubt make as good a tree as can be produced by the same stock planted in the nursery in the spring and budded in the fall. As a correspondent isks how to make root grafts, I will briefly outline the work as it is done in many nurserles. The work of root grafting requires

strong, healthy stock or seedling, a sharp, thin-bladed knife, always kept sharp, and skill to make a clean cut with no twists or turns to it, but flat and smooth. To one not skilled in the use of the knife, considerable practice is needed in cutting upon shoots of the apple or pear, or other hard woods, before making the grafts. The root or seedling, Fig. 1, is held in the left hand, and an upward cut made at the point, a, where the root and top come together, called the collar. A tongue is then cut about midway of this, a, Fig. 2, which is to fit into a similar

The scion, Fig. 3, a piece of last year's growth, about six inches long, of the variety desired, is then taken, and the same kind of a cut made on its lower end. The two cut surfaces are then placed together and the tongues pressed firmly against each other, taking care that the inner bark, called the cambium layer, comes in contact with as many points as possible. If

cut on the scion.



Driving, cycling and automobiling tourists who return from their out ings on the South Jersey pikes this summer are unusually enthusiastic in heir praises of these shell roads, writes the Philadelphia Press,

The process of constructing these roads is of special interest because of its simplicity. There is no expense of digging out the roadbed and filling it first with large stones and then with a smoother top dressing as in the construction of a macadamized road. The shells are simply unloaded from the boats (which bring them in great quantities from nearby oyster fields to Buena Vista wharf), and are then carted out along the roads until a hollow is found, or any spot that needs repairing, and are then unceremon iously dumped and left without any process of pounding or smoothing, until broken up and leveled off by the pass-

In constructing a shell road from the beginning, load after load of the oyster shells are dumped in an irregular bank all along the centre of the roadway; then with a road scraper a bank of earth is thrown up along the edge to keep the shells from scattering. This leaves a narrow, smooth space over which the scraper has passed along the edge of the bank of shells; and as this is used for driving as long as the weather is dry, it would seem that the bank of sharp shells would never be driven into smooth, white firmness. But wait until there is a heavy storm, and the smooth road at the side becomes a mass of heavy mud and sand, then the rough shell bank is gladly mounted. and although it is decidedly rough at first, the heavy country driving and carting of farming produce soon crushes the shells and forces them into the rain soaked soil beneath. A second or third banking of the shells, scattering them further over the sides of the roadbed each time, with this process repeated, forms a roadbed that is hard and firm to the depth of a foot or more. and beautifully smooth and white, When these shell roads extend along

great stretches of pines, with even rows of cedar and fir trees lining the roadway (as they do throughout many parts of New Jersey), one is reminded of the palm lined drives so alluringly pictured in views of "our new posses sions '

## Solving the Problem.

Cost is now the principal obstacle to the building of good roads in New York State, according to State Englneer Bond. The farmers, who have the most to gain from improved highways, but who have been slow to appreciate this fact, are now represented to be generally in favor of the movement. Applications under the Armstrong-Higble law for road improvement are pilling up in the State Englneer's office. With a reduction in the cost of road building, the State appropriation could cover more ground, and to this problem of a reduced cost Mr. Bond has been devoting his attention.

He thinks he has found the solution in the proposed establishment of a State rock-crushing plant, near Rockland Lake, across the Hudson from Sing Sing, where the convicts could employed, in converting the tran rock, abundant there, into road metal. He regards the location as excellent for the purpose, and would expect the returning canal boats to carry loads of broken stone up into the State at cheap rates, rather than to go back light. Another suggested merit in the idea is that it would solve the convict-labor problem, so far as Sing Sing is concerned,-New York Post.

# ANOTHER GRAND REPORT FROM HIS MAJESTY'S DOCKYARD, AT PORTSMOUTH, ENGLAND.

Where Upwards of 10,000 Men Are Constantly Employed.

Sometime ago the Portsmouth Times and Naval Gazette published a most thrilling and remarkable experience of the wife of Mr. Frederick Payne, himself connected with the Portsmouth Dockyard for many years. The report produced a great sensa tion, not only in Portsmouth, but through out the country, being considered of suffi-cient importance for reproduction and editorial comment by the leading Metropolitan and Provincial Press of England, as showing the marvelous powers which St. Jacobs Oil possesses as a cure for Rheuma-tism, its application having effected a perfect cure in the case of Mrs. Payne, after having been a helpless cripple and given up by several physicians.

We have now further evidence of its intrinsic value as a Pain Conqueror. Our readers will do well to follow the intelligent and highly interesting details as given in Mrs. Rabbets' own words: To the Proprietors St. Jacobs Oil:

Gentlemen-My husband, who is a ship

wright in His Majesty's Dockyard, met with an accident to his ankle and leg. spraining both so badly that his leg turned black from his knee to his toes. The Dr. said it would be months before he could put his foot to the ground, and it was doubtful whether he would ever get proper ase of his leg again.

A few days after the accident I had a book left at the door telling about St. Jacobs Oil, so I procured a bottle from our chemist, Mr. Arthur Creswell, 379 Commercial Road. I began to use St Jacobs Oil, and you may guess my surprise, when, in about another week from that date, my husband could not stand, but could even walk about only and in three weeks from the time I first used the Oil my husband was back at work, and everybody talking about his wonderful recovery. This is not all. See ing what St. Jacobs Oil could do gave me faith in your Vogeler's Curative Compound also favourably mentioned in the book left at my house. I determined to try the compound on my little girl; who was suffering from a dreadful skin disease, the treatment of which has cost me large sums of money in going from one doctor to an-

Curative Compound, and one would now hardly take her for the same child, her skin has got such a nice healthy colour after the sallow look she has always had. I shall never cease to be thankful for the immense benefit we have derived from these two great remedies of yours. ] think it a duty to recommend these medi cines now I have proved their value.

Portsmouth, England.

pound will be sent by addressing St. Jacobs Oil Ltd., Baltimore.

themselves attractive, yet lack that convincing proof which Mrs. Rabbets' description of her own experience supplies. St. Jacobs Oil has a larger sale throughout the world than that of all other remedies for outward application combined, and this can only be accounted for from the fact of its superiority over all others.

First Nurse Girl-Seems to me y'r puttin' on a heap o' style drivin' in the park with a moneygrammed kerriage, and coachman and footman, too. Does Second Nurse Girl-She sends me to

There is more Catarrh in this section of the contry than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it is local disease and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Belence has proven Catarrh to be a constitutional disease and therefore requires constitutional treatment. Hall's Catarrh to the a constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a tenspoonful. It acts directly on the blood and muccus surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address F. J. CHENEY & Co., Toledo, O., Bris fails, Te., Ball's Family Pills are the best.

Ship rate, which are propagators of the plague, have been thoroughly exterminated at Marseilles by the use of liquid carbonic acid.

### Best For the Bowels.

Best For the Bowels. No matter what alls you, headache to a can-cer, you will never get well until your bowels are put right. Cascamers help nature, cure you without a gripe or pain, produce easy natural movements, cost you just 10 cents to start gotting your health back. Cascamers Candy Cathartie, the genuine, put up in metal borze, every tablet hus C. C. C. stamped on it. Beware of imitations.

The rich man traveling abroad doesn't have to be a linguist. Money talks in every language.

Mother Gray's Sweet Powders for Children Successfully used by Mother Gray, nurse in the Children's Home, in New York. Cure Feverishness, Bad Stomach, Teething Disor-ders, move and regulate the Bowels and Destroy Worms. Over 20,000 testimonials, At all druggiets, 22c. Sample mailed Farz, Address Allen S. Olmstead, Lelloy, N. Y.

The average man returns a borrowed um-brella when it's worn out and he wants another.

FITS permanently cured. No fits or nervous-ness after first day's use of Dr. Kline's Great NerveRestore. \$21 rial hottle and treatisefree Dr. R. H. KLINE, Ltd., 231 Arch St., Phila., Pa.

Practice makes perfect, but it doesn't re quire much practice to make a perfect fool

H. H. GREEN'S Soxs, of Atlanta, Ga., are the only successful Dropsy Specialists in the world. See their liberal offer in advertise-ment in another column of this paper.

When a fellow carries a picture in his watch there is usually a woman in the case.

We refund 105, for every package of Pur-NAM FADELESS DIE that fails to give satis-faction. Monroe Drug Co., Unionville, Mo.



Mrs. L. A. Harris, a Prominent Member of a Chicago Woman's Political Club, tells how Ovarian Troubles may be Cured without a Surgical Operation. She says:

"Doctors have a perfect craze for operations. The minute there is any trouble, nothing but an operation will do them; one hundred dollars and costs, and included in the costs are pain, and agony, and often death.

"I suffered for eight years with ovarian troubles ; spent hundreds of dollars for relief, until two doctors agreed that an operation was my only chance of life. My sister had been using Lydia E. Pinkham's Vegetable Compound for her troubles, and been cured, and she strongly urged me to let the doctors go and try the Compound. I did so as a last resort ; used it faithfully with the Sanative Wash for five months, and was rejoiced to find that my troubles were over and my health restored. If women would only try Lydia E. Pinkham's Vegetable Compound first, fewer surgical operations would occur."-MRS. L. A. HARRIS, 278 East 81st St., Chicago, Ill. \$5000 FORFEIT IF THE ABOVE LETTER IS NOT GENUINE.

When women are troubled with irregular, suppressed or painful menstruation, weakness, leucorrhoza, displacement or ulceration of the womb, that bearing-down feeling, inflammation of the ovaries, backache, bloating (or flatulence), general debility, indigestion, and nervous prostration, or are beset with such symptoms as dizziness, faintness, lassitude, excitability, irritability, nervousness, sleeplessness, melancholy, "all-gone" and "want-to-be-left-alone" feelings, blues, and hopelessness, they should remember there is one tried and true remedy. Lydia E. Pinkham's Vegetable Compound at once removes such troubles.



ing carriages and farm wagons.

## How to Be a Good Farmer.

There are thousands of farmers all ver the country who if asked why hey are living in the country, will ay that they don't know enough to anything else. In my opinion the rmer to enjoy his work and be able accomplish anything of importance lust be as well educated as any other inss of people. He should not only be amiliar with scientific works, but he bust not neglect higher mathematics, and should be familiar with animals ad insects, know about the growth of lants, formation of solls, etc. He will hen be better able to solve the many omplex problems which confront ev-

Many think that the farmer's life is unenviable one, that ne is tied down home, scarcely having time to eat r is, the farmer can be the most inendent man on earth if he chooses. ue, he must rise early, work late rie, he must rise carry, work the ad continuously for a while in the pring, but after two or three months he hardest of his work is done, and can take it comparatively easy durg the remainder of the season. ne of the greatest essentials to prosrity and enjoyment of life is per-et health. The best opportunities for is are offered on the farm unless much work is attempted. Exposure ring bad weather must be avoided much as possible. While stock ners especially must be out in all ads of weather, good food and proper sthing will go a long way towards interacting any bad effects. The chard, garden and poultry yard akes it possible for the farmer to ve the very best to live upon. While en in other professions may make oney faster, very few callings afford are pleasure and more substantial urns. It is now possible to have ly papers, periodicals of all kinds, that the dweller in the country

d net be ignorant.-Harry Cou ite, in American Agriculturist. not be ignorant .- Harry Courth-

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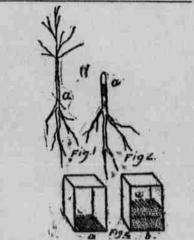
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mased Potato Crop

he high prices of potatoes this r have caused importers to bring ck from Europe in the largest quanis from Europe in the largest quan-es ever known. Every owner of atoes has had a chance to sell his ducts for good prices, and nothing the small yield last year cast a dow upon the industry. But even h the lessening of the general crop re was considerable profit for the rage grower, and some more for-ate than others in their yield real a greatter returns per acres than edinary sensous. Small crops often we a blessing to the few expert



STEPS IN ROOT GRAFTING.

meals, while the truth of the mat- the scion is the same size of the stock this may take place on both edges. but if it is smaller than the stock, contact can only be made on one side. After pressing as firmly as possible. the union is made more complete by tying the parts together with raffin fiber, soft twine or waxed thread, as at Fig. 4. The success of this work depends upon how carefully the cut has been made, how much of the cambium layers come in contact, and how firmly the parts are bound to gether.

After the grafts have been made they are to be packed in moist sand or light soil and kept in one position until taken out for planting in spring. A very good way of packing is to take a soap box or other box of the right size and place it on one end, Fig. 5. Then put in a layer of grafts and cover with soll, pressing it firmly about the grafts, putting in layers of sand and gravel, Fig. 5, b, until all are in or the box is filled. The box should be kept in a cool, moist place, as nearly freezing as possible, yet not actually frozen, until spring.

As early as the land will work up fine and mellow, the grafts should be planted in the nursery rows about five

aches apart, and in rows four to five feet from each other. As the grafts are taken from the box they should be put into a pall of water, that they may not be exposed to drying, and planted with a spade or dibbler, taking care not to start the union of the scion and root. During the first year in the nursery little care is needed, but to keep the land well cultivated, and allowing only one shoot to grow.-Pro-fessor S. T. Mayuard, in American Agriculturist.

- 法法律 It isn't always the clock with the oudest tick that keeps the best time.

## Europe Was Fortunate.

The countries of Europe were fortunate in having a system of roads established long before the invention of the steam railway. In the United States the rapid extension of railways has caused the roads to be neglected. Good roads are essential to the prosperity of rural districts, as they promote local commerce and tend to make the people better acquainted with one another,-Thomas W. Knox, New York City.

Mean New Opportunities.

Good roads mean new opportunities which will broaden and sweeten life. They mean education, and just as ignorance is the root of faisity and disorder, so education means knowledge and love of law and order, the nation's only hope for the abolishment of crime. -Clara Louise Burnham.

# A Good Suggestion.

The Legislature of each State should pass a law for the establishment and maintenance of good roads. Let the bleyclist of town or city unite with the farmer in agitating the matter, and a millennium of good roads will speedily result .- Mrs. R. F. Woodward, Fort Wadsworth, N. Y.

Needed For Everybody.

By all means let us have good roads for the farmer, for the merchant, for the wheelmen, for the pedestrians, for everybody. - Ellen F. Pratt, Editor Health and Dress, Iowa City, Iowa.

Don'ts. Don't consider yourself the axle or the world. You are only a spoke. Don't waste emotion. Excessive feeling disturbs the brain, weakens the

eart and ages the body Bon't confuse fault-finding with critcism. One has its root in captiousness, the other in kindness.

Don't be superstitious. Reason out causes rather than dwell upon effects. Don't be pharisaical. Be honest, virtuous, obliging and wise, but don't preach

Don't be ashamed of your parents They may be illiterate and dull, but they gave you a chance to beco what you are.-Philadelphia Record.

Booksellers who supply English schools report that there has been in recent years a very great increase in the demand for German school books.

