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FRUIZALOWERS

JAN DE

TREES ON THEIR OWN ROOTS.

Fruit From Seedlings-Have Budding and

The idea that in order to get good va-

same time more prolific and longer lived than many of the grafted and budded

Autumn Treatment of Raspherries.

The London Garden contains some

The London Garden contains some good directions on the autumn treatment of the raspberry, the substance of which is worth repeating, with some comments. The early removal of the cenes is recommended, which is good advice when they are standing in sheltered positions. But in bleak exposures the old canes may aid in protecting the new ones against wind and

tecting the new ones against wind and storms. Heavy surface mulching twice

a year is recommended. Suckers should be removed, because they rot the plants, but a better way is to clear out all the

but a better way is to clear out all the needless suckers early in the season when only a few inches high.

Only three or four canes for future bearing should be allowed for each stool,

bearing should be allowed for each scool, or five at the most if they are rather weak. If, however, they are wanted for planting, more may be allowed. Canes for next season's bearing may be moderately or lightly pruned or shortened back or pinched into good shape without removing much foliage till they have

acquired a strong and well matured

low, free flowering, hardy Italian shrub, which has been known for nearly 300

years, and yet it is seldom seen. han says of it that the ends of the

kinds of the present time.

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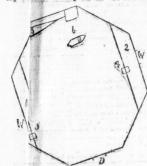
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AND TOOLHOUSE.

Thereo use trying to keep tools if you have place to put them. When they arattered around barn, woodowing shed, they soon become n rust. It does not require acksmith to do much of the llacksing or a carpenter to do many of the about the farm; hence many progres farmers advocate a workhop. accompanying diagram, furnished Ohio Farmer, illustrates in a roughy a substantial but inexpensive strains. The The man who owns it

ys: We all the building ourselves in a slack a of the year; hence we did not lay outlet money on it. It is built



OCTAGONAL WORKSHOP

of corete wall 11 inches thick and 64 feeligh. It has eight sides; therefore is very near round. The advanhaving it octagonal shape are, no waste room in it from square sides, the roof you will have e strongest that you can build, uires no girths or stays in any is braced in itself, and it is it is braced in itself, and he is le for it to spread, as the sheet-is it impossible; besides, the wall stronger and will do much it being braced or bound all. The sides are each 10 feet long itside, and being 11 inches thick bout 22 feet from side to oppo-(diameter) inside. The main is in the roof, which required

es of shingles. represents the floor of the shop; por; W, windows; 1, carpenter's, blacksmith's bench; 3, carpene; 4. blacksmith's vise; 5, the bel-the fireplace, which is built of enry 3 feet square, with a holhe top; 7 is the anvil.
second cut is shown a tool and

not shed that has given satisfactive is 14 by 18 feet, and is thus detail by an Ohio Farmer correspondthe ground floor is space for ider, mowing machine, corn three stubble plows and two harrows. The space for the 8 by 14, without a floor over-The rest of the shed has a floor of feet from the ground floor, for small implements, such as one or two persons can lift handily. This shed is 12 feet high in front and 8 feet at the rear. It has double doors, one (F) 8 feet wide let in the binder; A. plows; B, corn C, mower; D and E, miscella-



OP AND TOOLHOUSE COMBINED. hed can be built in size to suit any one. nvenience there should be a door

bushels at 39 4-5 cents; Prize Cluster cats, 34 4-5 bushels, at 172 cents; Centennial White corn, 43 2-5 bushels, at tennial White corn, 43 2-5 bushels, at 23 2-5 cents; Learning corn, 40 1 and 44 1 bushels, at 15 cents; timothy and red clover hay, nearly three tons per acre, at a cost of \$1.27 per ton. The cost of a crop depends upon the weather, the price of labor, the fertility and previous treatment of the soil and the skill of the farmer.

the farmer.

Grain In the Stack.

It is not a wise plan, says The Prairie Farmer, to have the grain in a stack any longer than is absolutely necessary. It is subject to many dangers there, which are very nearly done away with when the grain is thrashed and put in the barn. No matter how well the stack is built, it may be upset by a storm, and then wet and warm weather will quickly higre the grain. Grain In the Stack

RAPID PLOWING

Authorities Express Themselves on the Subject—Some Helpful Statistics.

A good authority on the subject of plowing says that 24 miles an hour is as fast as any team ought to walk in the plow. In clay ground two miles is fast enough, kent up for 10 hours a day. In plow. In cay ground two must is rast enough, kept up for 10 hours a day. In loose, loamy soil, when the object is simply to stir up the surface, wide furrows can be taken, the team can move off at a rapid walk, and a large area can be plowed over in a day.

A team walking two miles per hour

plowed over in a day.

A team walking two miles per hour for 10 hours will plow as follows, according to width of furrow: Furrow 5 inches wide, 1 acre; 6 inches, 1.2 acres; 7 inches, 1.4 acres; 8 inches, 1.6 acres; 9 inches, 1.8 acres: 10 inches, 2 acres, and so on, increasing two-tenths of an acre for each inch increase in width of fur-row. With a furrow 7 inches wide a team must walk 14½ miles to plow an acre. With a furrow 12 inches wide a team will walk only 8½ miles to plow an acre, and in walking 20 miles would

plow very nearly 2½ acres.

The speed of the team in plowing varies greatly. The Ohio Farmer says that horses naturally fast walkers will travel 20 miles a day in the plow without exhibiting any more fatigue than others that walk naturally only half as far and accomplish only half as much. With a 9 inch furrow a team that walks 1½ miles an hour will plow an acre in 7 hours and 20 minutes, while if it walks 2½ miles an hour it will finish the acre 24 miles an hour it will finish the acre in 4 hours and would plow 2½ acres in 10 hours. Most of our modern two horse walking plows are made to cut a 10 inch furrow, and they will turn 12 inches by breaking 2 inches, but this adds too much to the draft, especially in stiff soil.

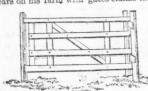
At the walking contest on the state

much to the draft, especially in stiff soil.

At the walking contest on the state fair grounds at Columbus, O., in 1889, the first prize mare pulled half a ton of coal at the rate of over five miles an hour, and her owner said she would keep that gait up all day. This would be impracticable in the plow, but 3 or 3½ miles are the property of the pro would not be impracticable, and the gain over the 11 mile team is apparent from above figures.

The time lost in turning is considerable. The advantage of long pulls in this respect is seen from the following figures: With a furrow 234 feet long the time lost in turning in 10 hours' work is 5 hours 11 minutes; furrow 447 feet long, time lost in turning is 2 hours and 44 minutes; furrow 600 feet, time lost 2 hours and 1 minute; furrow 822 feet, time lost 1 heur and 28 minutes. The time lost in turning, however, is not all time lost in turning, however, is not all lost time, for the team requires some "let up" from the constant strain that exists in this work.

Substitute Light Gates For Bars. The sliding gate depicted in the cut is especially adapted as a substitute for bars. A farmer who has replaced the bars on his farm with gates claims that



A SLIDING GATE.

he made six gates similar to the one here depicted, with the aid of a hired man, in one afternoon, and that 10 years' trial with them only serves to enhance their value as a time and labor saving device. This gate, which was originally illustrated in The Farm Journal, is made of day pine 1 by 5 inches; it is light, and any boy big enough to drive pigs can handle it. To open it just slide the gate back until the ends of the top and bottom rails come out of the mortises of the left hand post, and then carry it around as far as needed. The two right hand posts should be set far enough apart so that the gate will slide freely between them. As there is no strain on the posts, as in ordinary hinged gates, they may be

Best Food For Wintering Bees A Michigan apiarist tells in The Country Gentleman that there is no better food for wintering bees than pure cane

NOVELTIES IN READING.

Dr. Von Holst, the eminent German historian, who has lately taken up his residence in this country, will furnish to the November Forum a slashing criticism of the

The first volume of McClure's Magazine closes with the November number. Among the contributors to volume II. will be: The idea that in order to get good varieties of fruit we must bud or graft from existing trees that are known to be such prevails so extensively that no other system of propagation can be said to be in general practice. Yet it is true of the most of fruits that the best as well as the poorest of the varieties we have original.

in general practice. Yet it is true of the most of fruits that the best as well as the poorest of the varieties we have originated as seedlings. Not a few of our fruitgrowers are suspecting that the practice of budding and grafting has a tendency to degeneration and is at least a cause equally potent with climatic changes and soil exhaustion for loss of vigor and the want of a power to resist unfavorable influences, in which the fruit trees of the olden time were superior to those of the present.

That grafting or budding on stocks and roots is the only certain method of reproducing exactly the variety we wish to perpetuate is freely admitted, but may it not also be true that the practice should become more general of raising fruit trees from selected seeds? In case

those least desirable we may secure or-chards of excellent fruit and at the

CHEARS

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IGBACEC

Vitex Agnus-Castus is a very pretty. There is always a great rush for S. DAVIS & SONS' Cigars

LA CADENA ELPADRE MUNGO

characterize this young folks' magazine as the household standard. It is charmingly illustrated. 10 cents a number, \$1 a year. D. Lothrop Company, nublishers, Boston.

Miss Mary Wilkins has written a new novel-one which is described as a particularly strong piece of work. It is to make its first appearance in January in the pages of Harper's Weekly.

New subscribers to Littell's Living Age ean obtain a set of the Personal Memoirs of can obtain a set of the Personal Memoirs of Gen. P. H. Sheridan, U. S. A., in two large octave volumes, handsomely bound in half seal, and The Living Age from the date of the receipt of their subscriptions to the close of the year 1894, for only \$9. Such an opportunity to get a standard work, published at \$9, for \$1, is of too rare an occurrence to be let bass.

Write the publishers, Littell & Co. Boston, Mass., concerning this and other fiers.

tendency to degeneration and is at least a cause equally potent with climatic changes and soil exhaustion for loss of vigor and the want of a power to resist unfavorable influences, in which the fruit trees of the olden time were superior to those of the present.

That grafting or budding on stocks and roots is the only certain method of reproducing exactly the variety we wish to perpetuate is freely admitted, but may it not also be true that the practice should become more general or raising fruit trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the peach we may fairly expect trees from selected seeds? In case of the feat Michael of the peach we may fairly expect trees from selected seeds? In case of the feat Michael of the peach we may fairly expect trees from selected seeds? In case of the feat Michael of the peach we may fairly expect trees from selected seeds? In case of the feat Michael of th In a series of interviews with members of

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pays as follows: \$10
Membership dues. \$10
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He then buys a homeorth \$1.090 and the association effection for the purchase price to pay for it on pays 415 per month for 42 months, amounting to 630

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injure the grain.

Carter's Little Liver Pills must not be concommon Cathartic or Purgative Pills and they are extremely unlike then. in very respect. One trial will prove their superiorities.

Where the brain is not fagged.

Give Holloway's Corn Cure a trial. It removed ten corns from one pair of feet without any pain. What it has done once superiorities up the nerves and gives renewed.

Superiorities are the brain is not fagged.

Ask your dealer for "Lardine" and beware of Imitations.

This and impure blood is made rich and beautiful by taking Hood's Streagarilla. FOR SALE BY ALL TIE LEADING LEALERS THROUGHOUT THE COUNTRY without any pain, is will do again.

cost of Farm Crops.

Cost of Farm Crops.

At the Nebraska station an effort was made to ascertain the actual cost of farm crops. The crops were given ordinary farm treatment. Labor was charged against the fields at the uniform rate of 15 cents per hour. The profit on a crop depends upon its cost asel if s market pies. The cost is more largely under the farmer's control, the masket price being affected by demand and supply. Hickman wheat, yielding 405 bushels per acre, cost 167 cents per bushel in the granary. Tuscan Island Red yielded 35 bushels, at 23 2.5 cents; Landreth White, 36 1.6 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White Winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bushels, at 27 cents. White winter rye yielded 21 bus for each wagon, and for this purpose it should be built longer to admit the tongues. The implement department is just right—14 feet deep. A shop can be made as long as desired. There is a stone pillar under each post. No sills. Cost of shed, \$25 for shingles, weather-boarding nails, etc. or in a on that ods is a double double This nsoluble of the ble and naterial atter of a con-d this is possible nic. In soluble ome inbut on

reservative, but slow to dry on iron.

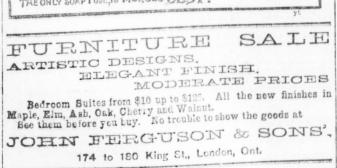
Texas is at the head of the cattle producing states, having about 7,899,900; next comes Iowa with nearly 4,000,000.

The next five range from 2,600,000 to 2,600,000.

Eight states and one territory range from 1,700,000 to 1,000,000; 14 states and one territory have less than 1,000,000 each, while 13 states and one territory have less than 500,000 each, less than 500,000 each less than 100,000.

The Farm Journal tells that many farmers who work beyond an average of 10 hours per day are lessening their capacity for effective labor. The trouble with excessive hours is that the keemes of the mind's edge is duiled, and more muscle is demanded to do the work than where the brain is not fagged.

Give Helloway's Corn Care a trial. It removed ten corns from one pair of feet.



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