

Farm and Garden.

To make Superphosphate of Lime.

This is the season of the year when preparations should be made for the manufacture of this valuable manure. It is a product, which, as stated by Prof. Anderson, of Edinburgh, depends on the existence of two different compounds of phosphoric acid and lime, one of which contains three times as much lime as the other. That which contains the larger quantity of lime is found in the bones, and all other natural phosphates, and is quite insoluble in water; but when two thirds of this lime is removed it is converted into the soluble. This change is effected by the use of sulphuric acid, which combines with two thirds of the lime of the ordinary insoluble phosphate of lime, and converts it into a phosphate of lime, which is soluble. If to 100 lbs of common phosphate of lime the requisite quantity of oil of vitriol is added, 64 lbs of phosphoric acid, containing the whole of the phosphoric acid (the valuable part) of the phosphate, and the remaining 36 lbs, consist of lime, which, combining with the sulphuric acid, produces 87 lbs. of dry sulphate of lime, or 100 lbs. of the ordinary sulphate of gypsum. This is a minimum amount, but in practice, in actual practice it is liable to be exceeded. By employing a sufficiency of sulphuric acid the whole quantity of phosphoric acid in the phosphate may thus be brought into a soluble state, but in actual practice it is preferable to leave part of it in an insoluble condition, as where it is entirely soluble its effect is too great during the early period of the season, and deficient at the end. In order to dissolve bones, bone ash, or mineral phosphates, which are mixed with from one to half their weight of sulphuric acid of specific gravity 1.70 (140 Twaddle). When mineral phosphates, and particularly coprolites, are used the sulphuric acid must be increased, so as to compensate for the lime which is consumed in decomposing the carbonate of lime they contain. When operating on a small scale, the materials are put in a vessel of wood, stone or lead (iron is to be avoided as it is rapidly corroded by the acid), and mixed with a sixth to a fourth of their weight of water. The sulphuric acid is then added and mixed as uniformly as possible. Considerable effervescence takes place, and the mixture becomes extremely hot. At the end of two or three days it is turned over with a spade, and after standing for some days longer, generally becomes pretty dry. Should it still be too moist to be sown it may be turned over, and mixed with some dry substance to absorb the moisture. For this purpose everything containing lime or its carbonate must be carefully avoided, as they bring back the phosphates to the insoluble state, and undo what the sulphuric acid has done. Pent, saw-dust, sand, decaying leaves, or similar substances, will answer the purpose, and they should all be made perfectly dry before being used. The best plants to sow in the bones are those which are the most hardy, and the most prolific, and after that to mix in the fine dust which has passed through the sieve, to dry up the mass.—Scientific American.

The Best Vinegar in Twenty-Four Hours.

The following is the Scientific American's recipe, which is no doubt just as stated, is commended to the attention of all families who desire good vinegar. The directions here given, place its manufacture within the easy reach of all, for the process is simple and rapid. The whole philosophy of the manufacture of vinegar is included in the word oxidation, the alcohol contained in cider, beer or wine, combining with the oxygen of the atmosphere, becomes acetic acid, which in a diluted state is vinegar. The methods usually pursued in the domestic manufacture of this article are, to say the least of them, susceptible of improvement. The conversion of cider into good vinegar, by exposure to the air in casks, requires weeks and even months to accomplish; because, only a small surface is exposed at one time to the oxidizing action of the atmosphere. By exposing a large surface of the liquor to the atmosphere, oxidation takes place with corresponding rapidity, and the process may be complete in twenty-four to forty-eight hours. The method of accomplishing this rapid acidification, which has long been known to scientific men and manufacturers, may be pursued without difficulty in private houses, as follows: Take a clean wooden tub, and fill it with holes around the sides, and in the bottom; set it over a flat tub or open cask, and fill it with fresh shavings which have been soaked in vinegar. On top of this barrel, which is open, lay a strip of wet wool, and resting on those, a nail filled with cider, beer or the like. Proceed 20 to 15 lengths of cotton wicking, about 30 inches long; which after dipping in the liquid, arrange round the sides of the tub, so that the wicking, at one end of each wick, will be hanging in the cider and the other hanging down outside, and below the bottom of the tub. By means of these wicks the tub will gradually be emptied of its contents, and the vinegar, which is being exposed to the air, absorb oxygen, and finally be received in the tub beneath. By returning the liquor into the tub above, and suffering this trickling process to continue, the vinegar will be obtained. The whole secret of the process lies in the mechanical increase of surface accomplished by the shavings.

Seeding Orchards to Clover.

One of our correspondents asks if seeding an orchard to clover will be injurious to the trees? The practice of seeding down young orchards to grass cannot be too strongly condemned; but after the trees are ten or twelve years of age, and have formed strong main roots, and commenced bearing fruit, it is rather good policy to seed down to grass; and, indeed, the seed, however, only for a couple of years, before again ploughing and cropping with hood crops. In seeding to grass we advise sowing grass seed in the spring. Oats, especially, is very injurious to a young orchard. Of the grasses, the common red clover is as little injurious as any; for it obtains a considerable portion of its nourishment from the atmosphere, and means of the next best leaves. Orchard grass is the next best injurious, and those who have practiced sowing both together, say the results are profitable in the long crop, and if not too long in seed not injurious to the orchard trees. By some authorities it is claimed that the longevity and hardiness of the tree is increased by an occasional seeding down to the grasses we have named. They aver that it checks the too exuberant tender growth consequent on a high state of hood crop cultivation, and creates a more firm texture and hard, diaphragm of wood.—Ohio Farmer.

The Wonderful Fruit Prospect.

It is a gratifying fact—gratifying to every individual in the community, (for all are benefited by it)—that we are rearing, and are about to have once more, a general fruit year. Strawberries we have had; and such strawberries! Never, within our recollection, has there been such a bountiful abundance of the fine sized, well flavored, and of such a fine quality. They were in fact, our market drug, in our market, and sold in many cases at prices that would not pay for their picking. The prospect for other fruit is equally flattering. Of apples, pears, peaches, &c., there is such promise of abundance as must gladden the heart of every lover of fruit. With so many signs and wounded soldiers to take care of, the orchardists of our country will be most happy.

A Great Cabbage Story.

The California Farmer, of April 11, says: "We know a case where a farmer having a good lot of cabbage is now selling them from 37 to 58 the hundred lbs.; from this crop alone he will realize some \$12,000 to \$15,000 for cabbages raised the past autumn."

1862. THE FARMERS, BUILDERS, MECHANICS,

And the public generally, will please call at the

Cheap Hardware Store,

EAST MAIN ST., CARLISLE, PA., (Adjoining the German House.)

AS I am selling goods cheaper than ever for cash or approved credit.

Remember the place, East Main street, Carlisle, Pa.

HENRY SEXTON. March 27, 1862.

NAILS AND SPIKES—1900 kegs Nails and Spikes, just received, of the very best makes and warranted.

Country merchants supplied with Nails at manufacturers prices, at the Hardware store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

IRON—100 tons of Iron—Hammered and Rolled—of all sizes, just received, and warranted to be of the best quality, with a large assortment of

Sheet Iron, Hoop Iron, Band Iron, Horse Shoe Iron, Spring Steel, Cast Steel, Bolts, Rivet Steel, Nuts, Horse Shoe Nails, Blacksmith Bellows, Rivets, &c., &c., &c.

Cheaper than the cheapest at the Hardware store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

GLASS—1000 boxes of Glass, of all sizes, of the best quality, and for sale very low at

March 27, 1862.

POWDER—Just received a large lot of DuPont's Blasting and Rifle Powder. Also

Safety Fuses, Picks, Stone Drills, Stone Sledges, Stone Hammers, Napping Hammers, &c.

March 27, 1862.

PUMPS AND CEMENT—100 blbs. of Cement, with a large assortment of Chain and Iron Pumps, just received and for sale cheaper than ever, at

HENRY SEXTON'S, N. B. Content sold by the quantity at Manufacturers prices, at the Hardware store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

FARM BELLS—I have been appointed agent for the superior Farm Bells, also, Bell Metal, Bells on hand, all warranted not to crack, by

HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

PLOWS, PLOWS.—Just received and for sale at Manufacturers prices, a large assortment of

Yerk Metal Plows, Blooded do, Zeigler's " Eagle do, Whipple's " Cultivators, &c., &c., at the Cheap Hardware Store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

HAMBS—500 pairs of Hames on hand, of all kinds, at

HENRY SEXTON'S, N. B. Content sold by the quantity at Manufacturers prices, at the Hardware store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

PAINTS AND OILS.—10 tons of White Lead, 1000 gallons of Oil, just received, with a large assortment of

Fire Proof Paint, Turpentine, White Zinc, Colored Zinc, Red Lead, Lead, White Lead, Fish Oil, &c., &c., at the Cheap Hardware Store of HENRY SEXTON, East Main street, Carlisle, Pa.

March 27, 1862.

BARGAINS! BARGAINS!

Since the late victories Domestic Cotton Goods have declined, as there is now a prospect of a supply of Cotton, we, LEITCH SAWYER & MILLER, at the New Store, under Martin's, East Main street, are receiving daily large supplies of

NEW SPRING GOODS,

which, with our old stock we are determined to sell at CITY PRICES. DRESS GOODS of every variety;

Plain and Fancy Silks at all prices; A large lot of new Black Silks at 75, 87 1/2, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50; new Spring Delaines, Colco, Pacific and American Prints, dark and light colors, new styles, at 12 1/2; a large lot of 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00, 6.50, 7.00, 7.50, 8.00, 8.50, 9.00, 9.50, 10.00, 10.50, 11.00, 11.50, 12.00, 12.50, 13.00, 13.50, 14.00, 14.50, 15.00, 15.50, 16.00, 16.50, 17.00, 17.50, 18.00, 18.50, 19.00, 19.50, 20.00, 20.50, 21.00, 21.50, 22.00, 22.50, 23.00, 23.50, 24.00, 24.50, 25.00, 25.50, 26.00, 26.50, 27.00, 27.50, 28.00, 28.50, 29.00, 29.50, 30.00, 30.50, 31.00, 31.50, 32.00, 32.50, 33.00, 33.50, 34.00, 34.50, 35.00, 35.50, 36.00, 36.50, 37.00, 37.50, 38.00, 38.50, 39.00, 39.50, 40.00, 40.50, 41.00, 41.50, 42.00, 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