

FOR FARM AND GARDEN.

Restorative Crops.

Clover, cowpeas, soy beans and the like are the best crops to improve worn-out soils. The crops may be cut for hay and grazed and the beneficial effects still be very great. Where the soil has been very badly injured, however, it is best to plow the vines under. Marked results are produced in most cases, the benefit being largely due to the effect on the mechanical condition of the soil. The added vegetable matter enables the soil to retain great amounts of moisture and at some time during the growing season this stored up water is needed.

Old Hens and Moulting.

Much has been said against the keeping of hens that are over two or three years old, and there is only one point against them, which is that each year a hen will moult later in the season, and the older the hen the later in the season will she moult. When winter comes it many times catches her before she is fully covered with feathers; as a result she will be set back and suffer from the cold, and perhaps not commence laying before the spring.

A little judicious treatment with nitrogenous food not only benefits the fowls, but shortens the periods of moulting, and in addition to that the growth of plumage is stronger and heavier, the fowls being then better able to stand the cold winter. The appearance of the fowl is also improved. The feathers look better and the fowls take on fat and meet the cold weather of winter with a vigorous constitution and in good health, which otherwise might not have been the case.—Mirror and Farmer.

Taking Milk Samples.

Creamery testing may be best checked either by having the creamery sample or duplicating it. When the creamery composite sample is complete and ready for testing the operator may be asked to furnish one-half of it. The patron should then be certain that the operator thoroughly mixes the sample by pouring; that all the cream from the sides of the jar, covers, etc., is mixed into the milk or cream, and that the halving is done immediately after the last pouring. In lieu of this the operator may be required every time he samples at the factory to furnish a duplicate sample in a jar controlled by the patron. In this way duplicate composite samples may be made, one held in the control of the operator, the other in that of the patron; both of which should test closely alike. Wide-mouthed jars should be used, which should be filled absolutely full to prevent churning in transit. Express charges should be prepaid, and the name of the party sending should be placed upon the package.—Vermont Agricultural Experiment Station Bulletin.

Woman's Experience With Fertilizers.

As I am a woman farmer, perhaps my ideas may not be accounted of much value. Nevertheless, experience is worth something whether it be gained by man or woman. Ten years ago, when I made my first attempt at trucking, I had 15 or 20 loads of fine manure hauled on the truck patch and put upon one large heap. This was done in autumn. The ground was rich loamy soil and sloped toward the south. The first year told me this was not a good one, as the ground whereon the manure was heaped remained frozen for weeks after the other ground was in proper condition for plowing. Again I noticed that where manure was spread thickly the ground retained the frost longer, and as one writer has said, was apt to turn up in clods, and the manure seemed dry and loose. After experimenting for ten years, I have reached the conclusion that there can be no particular rule to suit all farmers. The soil, the slope of the land and the climate must all be taken into consideration.

We are told that we must not follow the rules laid down by our forefathers, that methods of farming have changed so much in the lapse of years that we cannot with profit pursue the old ways. However, we cannot change nature; that remains the same for all time. Our forefathers seemed to follow the same rule in farming. There were no agricultural colleges, no experimenting, yet if the season was favorable their crop was good. This was due to the fact that the soil was new and not so much land was under cultivation as we now have. Time and education have changed this. We are the better able to discriminate as to which will be the most profitable plans to follow, but I shall continue to watch my neighbors' crops and methods, and whenever I see a good thing, follow it up, providing all things work together for good.—American Agriculturist.

Necessity of Fruit.

It is too bad that the farmers' family can not have all the fruit that they wish to eat, but it is a fact that there are a very large per cent. of farmers' families who consume but little fruit, says a writer in Farm, Field and Fireside. Grapes, for instance, which is one of the most easily grown fruits, is scarce on a great many farms as are the teeth, and this, too, when the young vines can be had for a very few cents each, and take but little time to set out. The grape is a very wholesome fruit, and there are but few persons who are not fond of it.

It ought to be made a point on every farm to set out some fruit every year. Nothing adds so much to the attraction and comfort of the farm home as does the orchard and fruit garden. Who is there that has grown

SCIENCE AND INDUSTRY.

The superior flavor of Smyrna figs is ascribed to certain Asiatic insects, which produces a more perfect fertilization of the flavors of the fig trees in Asia Minor than is commonly effected in other countries. The flavor appears to depend upon the number of ripened seeds in the fruit. During the past year the department of agriculture has imported some of these insects from Asia into California, and it is hoped that they will multiply there and improve the flavor of American figs.

The reconversion of the great Sahara desert, which was once an inland sea, to its former state is proposed. It is argued that a canal sixty miles long, connecting with the Atlantic the immense depression which runs close up to the coast nearly midway between the twentieth and thirtieth parallels of latitude, would solve the problem. The water would not, of course, cover the entire surface of the desert, here and there portions remaining above sea level, these becoming the islands of the Sahara ocean.

A new computation of the period of the fifth satellite of Jupiter, discovered by Mr. Barnard in 1892, shows the extreme accuracy of astronomical calculations when they are based upon a long series of continuous observations. This computation deals very confidently with thousandths of a second, the period of the little moon being set down at 11 hours, 57 minutes, 22 seconds and 647-1000 of a second. The satellite whose time of revolution is thus accurately determined moves with great speed. Its distance from Jupiter's centre is about 112,500 miles, and its path is practically a circle, so that the distance which it travels during a revolution is, in round numbers, 353,250 miles. As it accomplishes this distance in less than 12 hours, its velocity is almost 500 miles in a minute, and this, singularly enough, is about the same as the average velocity of Jupiter in his revolution around the sun.

An English railway engineer has invented a car for lessening the loss of life in railway accidents. The plan adopted, which is favorably regarded by English experts, is extremely simple. On the ground that the danger from railway accidents is in the tendency of the modern car to telescope, and in the inability of the present style of buffers to take up very severe shocks, the inventor has designed a car that will take up and break a very heavy shock without injury to itself, except in extreme cases. His buffer car is filled with powerful springs, calculated to resist ordinary pressure, but to telescope under intense strain to one-third its normal size, thus exhausting the force of the shock and saving the passenger cars from injury. The cars are to be used in pairs, one to follow every train and another to precede the baggage car, separating it from the engine and tender. The force of a collision would thus be broken, whether it should come from the front or rear.

Some very pertinent suggestions appear in the *Werkmeister Zeitung* as to the best treatment of driving belts, in order to insure the most perfect working. Thus, from the fact that the good drawing of a belt increases with the friction between belt and pulley, it is to be considered that the belt must surround as large a portion of the pulley as possible, for which reason crossed belts always pull better than open ones, so that, if in any way practicable, open belts should cover at least almost half the pulley. Further, if the circumference of one pulley be very small in proportion to the other thus allowing the belt to cover only a small portion of the smaller pulley—a sliding of the belt frequently takes place, especially if the distance between the two pulleys be slight. Again, as a slow running of the engine makes a strong stretching of the belts necessary, a tightening pulley is frequently placed midway between the two pulleys, so as to avoid a repeated resewing, and, if a large power is to be transmitted at little velocity, a broader belt should be employed than would be necessary with greater velocity, or two belts are made to run on top of each other.

To Much Bait for His Fish.

They were passing a good story at the court house concerning a young lawyer who was admitted to practice a short time ago and recently hung out his shingle. His office isn't a very pretentious affair, but he didn't think it necessary to apologize to his friends for his little eight by ten, with several feet partitioned off for the use of his "clerk." The other day lightning struck and the door opened slowly, while a voice charged with a strong Irish accent asked if the lawyer was in.

"James" said the rising disciple of Blackstone, getting up from a couch at the time, "I wish you'd step around to the First National Bank and tell them that the amount of that draft isn't quite right; it should be \$1575, instead of \$1525, and before you return drop into Mr. Johngre's office and tell him I've collected that \$3500 claim of his. While you're there step across the hall and inform Mr. Fogoboll that unless that note for \$10,000 is paid in the morning I shall begin foreclosure proceedings. Don't lose any time, as I've a great deal of work for you this morning."

"Be hivin'," gasped the client prospective, who had progressed as far as the doorway into the inner office, "this be's no place for me wid er two dollar fifty cent claim ter k'lect," and he departed.—Milwaukee Evening Wisconsin.

Intelligence of the Philippines.

Chatting about conditions in the Philippines, Captain A. S. Frost, late Colonel of South Dakota Volunteers, said to your correspondent: "To show the intelligence and general dissemination of education among the Tagals I might mention that the valet or servant whom I hired for \$6 a month, could read and write Spanish very well. Besides, he was anxious to learn, and would take my Spanish-English dictionary and make up copy exercises which he would write out neatly and bring to me for correction. When I was there, plenty of these native servants could be had for \$6 a month, all able to read and write. Since then the cost of living has gone up, and it is necessary to pay \$12 a month for a servant."—New York Post.

Gait of South American Horses.

The peculiar gait to which the South American horses are trained, known as the "paseo de trote" is a mincing step, so light and easy that the hoofs scarcely touch the ground. It is said to have been acquired in the early days of the Spanish invasion, and to have become inbred with subsequent generations of horses.

QUALITY AND NEWS.

Fame and Excellence Are Determining Factors in Successful Development.

ONE OF THE IMPORTANT FUNCTIONS OF HIGH-CLASS NEWSPAPERS.

In presenting interesting phases of scientific and economic problems, high-class newspapers frequently give information of great value in their advertising columns as in those devoted to the publication of the principal events of the day, and when the fame of a product is extended beyond its natural limits into foreign lands, and a large demand created throughout Great Britain and her Colonies and the principal sea-ports and cities of Europe, Asia and Africa, it becomes a pleasant duty to note the fact and to tell of the points of excellence which are to be expected. We refer to the now world-famed laxative remedy, Syrup of Figs, the product of the California Fig Syrup Company. The merits of this well-known excellent laxative were first made known to the world through the medical journals and newspapers of the United States; and is one of the distinct achievements of the press. It is now well known that Syrup of Figs is an ethical proprietary remedy, approved by the most eminent physicians everywhere, because it is simple and effective, yet pleasant to the taste and acceptable to the system, and not only prompt in its beneficial effects, but also wholly free from any unpleasant after-effects. It is frequently referred to as "the remedy of the healthy," because it is used by people who enjoy good health and who live well and feel well and are well informed on all subjects generally, including laxatives. In order to get its beneficial effects, it is necessary to get the genuine Syrup of Figs, which is manufactured by the California Fig Syrup Co. only.

Jerome K. Jerome has written and published sixteen novels in eleven years.

Beauty Is Blood Deep.

Clean blood means a clean skin. No beauty without it. Cascarets, Candy Cathartic clean your blood and keep it clean, by stirring up the lazy liver and driving all impurities from the body. Begin to-day to eat simple, healthful, wholesome food, and that sickly bilious complexion by taking Cascarets—beauty for ten cents. All druggists, satisfaction guaranteed, 10c, 25c, 50c.

Plumbing is taught in the Boston Trades School.

(From the BROCKTON TIMES, Oct. 10, 1890.)

Brockton's prosperity is so closely allied to the prosperity of the shoe industry that it will, no doubt, prove a matter of interest to a large number of people to learn the actual average earning capacity of each individual employed in the making of the world's famous Brockton shoe. For illustration: At the factory of the W. L. Douglas Shoe company the day roll for the week ending Sept. 30, excluding superintendent, foremen, salesmen and all clerical help, shows the average earnings of the employees, large and small, to be \$15.50 per week. This would make but nine days of the year that the factory is closed, which is surely as steady work as the most industrious shoemaker could desire.

Owing to increased business, another addition is to be made to the Douglas factory it will be 100 feet long, 40 feet wide, and five stories high. It will be ready for occupancy early in December. This addition increases the capacity 20 per cent. The W. L. Douglas shoe company, the largest shoe factory in the world, producing an advertised line \$3.50 and \$10 shoes.

Mr. Douglas says that the prospect for success in business for Brockton manufacturer was never so good as now, and that collection are better than for years.

About 2500 suicides are annually registered in Russia.

\$100 Reward. \$100.

The readers of this paper will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages, and that is Catarrh. Hall's Catarrh Cure is the only positive cure known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hall's Catarrh Cure is taken internally, acting directly on the blood and mucous surfaces of the system, thereby destroying the cause of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address: F. J. CHENEY & Co., Toledo, O. Sold by Druggists, 75c. Hall's Family Pills are the best.

Hunting and Fishing in the South. A book, descriptive of the best location in the South for various kinds of game and fish, showing the Game Laws of the different States South, penetrated by the Southern Railway, also hotel rates, names of guides, kind of game and parties who will furnish information, can be had upon application to Alex. Thwaites, Eastern Passenger Agent, Southern Railway, 271 Broadway, New York.

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IT FLOATS.

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From saving, comes having. Ask your grocer how you can save 15c by investing 5c. He can tell you just how you can get one large 10c package of "Red Cross" starch, one large 10c package of "Hamburger's Best" starch, with the premiums, two beautiful Shakespeare panels, printed in twelve beautiful colors, or one Twentieth Century Girl Calendar, all for 5c. Ask your grocer for this starch and obtain these beautiful Christmas presents free.

Baseball Outfit for the Army.

Henry Chadwick, the "father of the national game," will call on the President and urge upon him the original idea of providing all the regiments with athletic equipments, but principally with the implements of the national game. England has for years provided her soldiers with cricket outfits, and as a result Tommy Atkins has developed into prime physical exhibits of the English race. Among the different regiments great baseball rivalry exists, resulting in the development of the much sought for esprit de corps.

Of course, our troops now play ball when opportunity presents itself, but all the paraphernalia secured is at the expense of the boys in blue. The War Office in England looks to this part of the equipment of the English soldier as carefully as to the ammunition and guns, and should our Government adopt the suggestion, it is claimed that nothing but the best results can follow.

Fussy Killed by a Rooster.

A peculiar sparring match was held in Dan Kellogg's chicken coop the other day. The principals were a cat and a rooster, and it was a duel to the death. Dan threw a piece of meat into the coop for the chickens. A cat came along and wanted to share in the feast. The rooster objected and a fight ensued. Several fast rounds were fought with the honors very even until the last round, when fortune favored the rooster. Dan meantime was getting around the coop to stop the battle, fearing that the rooster would get killed. He opened the door of the coop, but he was lying on its back in a state of death, he having been struck in a vital spot. The cat seemed to realize that he had been fighting a cat, as it did not crow, a usual in a chicken fight.—Walk. (Ind.) Independent.

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ARNOLD'S COUGH KILLER

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Resin and Rosin. Some of our readers observed, perhaps, when reading the address before the Huntsville convention upon the timber interests of the South, the use of the word "rosin," applied to exudations of gum from the pine tree. The word, as written in the address, was "resin." The word "rosin" has come to mean specifically the residue that remains after the distillation of oil of turpentine from pure turpentine. Therefore, it could not be properly used in this connection in place of the word "resin."—Mobile (Ala.) Daily Register.



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