

CARE OF MILK.

An authority on dairying says that "all the results of scientific investigation which have found such great practical application in the treat- away from the farm. ment of disease, in disinfection and in the preservation of various pro- las of commercial fertilizers for crops ducts, are almost entirely ignored in milking." On the above subject Mr. production of the sections to which F. W. Bouska says that this is not they are sending their fertilizers, because the application of these than upon analysis. It is well for principles is difficult or hard to un- the farmer to understand thoroughly

value is not realized. Continuing, Mr. Bouska points out three years before the heifer comes in and starts the credit side of her account. In addition to this, considerable expense is involved in the buying or raising of feeds of the proper character, so that the cow, together with her care and the feed she con- perous farming centres. sumes, represents considerable capital. To this must be added the labor of milking, there being no returns until money is received for the The value of the milk depends upon its keeping quality.

it is sold for table use it should not only keep until delivered, but a reasonable time afterwards to give satisfaction. If it is to be made into butter or cheese it should keep well, because otherwise taints develop that may lower the value of the product enough to materially cut the price. At the best the entire profit on milk is comparatively small, and when the

quality is poor IT MAY OCCASION A LOSS. It is deplorable that after so many laborious and expensive details milk frequently is more or less injured through lack of care just before it passes out of the farmer's hands. The additional effort involved to keep the milk properly is scarcely appreciable when compared with the routine involved before the milk can be marketed, even in poor state. In this matter success may truly be traced to the little For example, the milk should be drawn by a clean milker into clean pails and pans; these utensils should be washed with hot water, a brush and such materials as salsoda, borax or washing powder. After this the vessels should be rinsed and aired perfectly in the sun. The stable and cows should be kept darkens the light of day and vitiates bleaches the one and the rosin is inclean, for exclusion of dirt is one of the two principles of milk preser- error and ignorance. vation. The other principle is cool-

ring or pouring. about conditions for the development of the organisms in previous milkings. If mixing is necessary morning milk should be cooled at least to the same temperature as the evening before adding.

KEEPING UP THE FARM.

awake farmer needs to look to more | Nature says : than ever before is keeping the farm up to a high standard of production. strument of suction forces the smoke When produce of any kind is sold off into a filter filled with a porous subof the farm it takes with it a certain stance which is saturated with a amount of fertility. To return it volatile hydrocarbide such as naphback to the soil in as economical a tha or petroleum. The porous matway as possible is a matter of no ter is a combustible; for example, small consideration. When market- coke, and we will see in a moment ing a crop the farmer should make a note of the kind of crop and the field on which it was grown, price smoke deposits on the coke a porreceived, and cost, as near as possi- tion of the hydrocarbides or tars ble, of the production of the pro- which it contains, at the same time duct. At the end of the year, by a becoming charged with the vapor of comparison, he will be able to prac- the volatile hydrocarbides with tice a correct rotation of crops, and which the porous matter is saturatalso be able to get an accurate ac- ed. After filtration the smoke count of his profit and loss. "Rut only composed of combustible gases, farming" is anything but modern such as oxide of carbon, hydrocarfarming, and the sooner the farmer bide vapors and hydrogen, and learns to estimate his farm plant and incombustible gas, as nitrogen and study in detail his conditions and how they may be improved by the introduction of new methods, the better it will be for him. The well posted farmer now-a-days is the suc-While special farming cessful one. will always find a place because such farming is adapted to certain localities, still diversified or mixed farm-Ing is bound to find a large place in this country, and it stands the farmer well in hand who is engaged in fectly answer every requirement of lined kettle with an ounce of whole diversified farming to husband his this system. The heat of the smoke mustard seed, one ounce each of crops and stock in such a way as to put back into the soil as much fer- which surrounds the filter, and this tility as possible that may be taken, hot water in turn can feed a boiler. out by disposing of farm products. If | Finally the porous matter, the coke he is selling considerable live stock of the filter, after having been he should aim to produce as much charged with condensed hydrocar- pickle. After it comes to the boilof the feed used as possible, and bides and with the carbon in suspenfeed with an idea of getting returns sion in the smoke, forms an excellent from the compost heap. Equally as and very rich combustible. In fact, great care should be exercised.

WHERE FEED IS PURCHASED,

waste is essential. nitrogen and phosphates. This holds is only fil en per cent,"

good with those who raise, buy and fatten cattle for market. Nitrogen, phosphoric acid and lime are sent off of the farm in live stock and dairy products, leaving a greater part of the potash behind. Stable manure most cases is richer in potash than in nitrogen and phosphoric acid, especially so when produced by growing animals or dairy cows, the latter substances going largely to the production of bone, hair, flesh, milk and tissue and are consequently sent

Specialists who are studying formuare depending more upon the natural derstand, but rather because their the products he is selling, or the crops he is producing and selling off of the farm, and then strive to reach the great pains that are taken in a balance in nature that will prevent selecting and buying cows, as well a one-sided development of his soil. as the care exercised in bringing up If the farmers throughout the length It usually takes about and breadth of our country would which, like those of prespiration, disput more thought upon the sustainers, and many rural communities now going backward would become pros-

BRAN AS A FOOD.

One advantage possessed by bran is that it contains a fair proportion of the phosphates, and for that reason may be used with the ration in order to render it more complete. It is now advisable to feed it in the soft condition if it can be used by sprinkling it on cut clover that has been scalded, although a mess scalded bran and ground oats in the morning of a cold winter day is very invigorating and nourishing. Even when the food is not varied some advantages may be derived by way of compensation for omission of certain foods, by the use of bran and linseed meal. Two pounds of bran, fed to the hens once a day, allowing a pint of the mixture to ten days, will greatly add to the egg producing materials. As a food for chicks bran should always be scalded and allowed to stand for an hour or two in order to soften.

SMOKE MADE USEFUL.

Various Elements.

Smoke is not only a waste, it a nuisance, when produced in great

ing. This should be done rapidly by ed to some good by which in its dis- quickly as possible in the shade. pouring from one vessel to another, appearance the air could not only be Starched clothes are dried in the passing it over an aerator or stirr- purified, but heat and light could be house in laundries, in order to keep ing in the vessel for some time. Of produced? If only the symbolized them stiff. If they are yellow, they course in cool weather the tempera- error and ignorance of society that are bleached in the sun, and afterture will lower somewhat quickly if vitiates the vital air of goodness ward starched and hung in the house the milk is allowed to stand, but it and obscures the light of truth could to dry. Colored dresses which are is better to hasten matters by stir- be treated in the same way! Smoke, trimmed or combined with white we are told, is made up of pulveru- should be rinsed in cold water in Morning and evening milk mixed lent matters, incombustible gases, as which salt has been dissolved in usually keeps poorly because of the nitrogen and carbonic anhydride and about the proportion of a tablespoonfact that the morning milk raises the combustible gases, such as oxide of ful of water. temperature and consequently brings carbon, hydrocarbides, and hydrogen. In the treatment of smoke the desideratum is, by burning its combustible elements and making it disappear, to find some profitable use cup brown sugar, one-half cup lard of the process of destruction.

description of an apparatus used by bake quickly. M. Tobiansky who succeeds in parating the various elements in ful flour or cornstarch with one of smoke and making practical use One of the things that the wide- the combustible ones. In detail La

"The operator by means of an in-

WHY THIS IS SO.

In passing through the filter the

carbonic acid.

tains from smoke of all sorts the small jars. Seal and set is a dark greatest possible profit, utilizing first place, as tomatoes do not keep well the heat which is present in the in any form if exposed to the light. smoke for the purpose of heating the Tomato and Onion Pickle.-Peel hydrocarbides of the filter, the vol- and slice half a peck of onions and atilization of these hydrocarbides be- slice a peck of green tomatoes. Pack ing all the more complete and their in layers, sprinkle salt between them, employment all the easier since the using about a cup in all. Let the heavy hydrocarbides, such as petro. mixture stand over night, then drain leum, while being cheap, may per- and put in an agate or porcelain warms the water of the refrigerator the Tobiansky method makes the combustion of material employed in ple juice until one-third has evaporwhatever way as complete as possi- ated. Pare, core and slice good apand feeding with judgment to avoid ble, and this is no small economy ples and put as many into the juice when one considers that in a loco- as it will cover. Cook slowly and Those who sell butter and milk de- motive where all is combined to when the apples are so tender as to

About theHouse

TO LIGHTEN LAUNDRY WORK.

Washing day is justly dreaded. Anything that lightens the work is therefore especially welcome, but though the tools of to-day are superior to those of our grandmother's modern invention has done comparatively little to lighten the labors of the laundry. In spite of the cost of washing machines and the representations of their agents, a perforated zinc rubbing board is still the most useful tool that a good laundress can command.

One of the most important parts of washing is the assorting of the There are many stains appear magically with a little cold ing of their farm and in keeping up water and soap, and others, like the fertility of their land, there fruit and coffee, which must be treatwould be fewer mortgages, less rent- ed with boiling water, but are permanently set by lukewarm water. If it is the practice of the family to soak all the clothes in cold water before the washing has begun, a great many stains will be permanently set; saved.

moved the stains from her clothes people, especially if they happen to she puts them in cold water in a be stout. boiler and brings them to the boiling point, and then puts them in the ments, which now-a-days all well washtub to be rubbed for the first groomed shirt waist wearers consid-The boiling starts the dirt, and the rubbing is much easier than mixed with one pound of linseed it would otherwise be. After rub- justed and kept just where it is bing, the clothes are transferred at once to the first rinsing water, then to the second, and when they are thoroughly rinsed they are put a few at a time into the bluing water, provided they have not been blued for several weeks. If they have, they are wrung out with the wringer and put out to dry. All white clothes should be dried outdoors in the strongest sunlight. Both the freez-Apparatus Which Separates the ing cold and the heat of the summer's sun bleach them. Brown soaps usually contain rosin and soda, and are good for washing white clothes, Odds and ends of crochet silk I like quantities, as it is in our large but they should not be used for col- best for darning material, both for cities and manufacturing centres. It ored clothes or flannels as soda the air-a sort of visible symbol of jurious to the other. Use a good white soap for this purpose. All What now if smoke could be turn- colored clothes should be dried as

DOMESTIC RECIPES.

Cookies.-One cup molasses, one or butter, one teaspoonful ginger, La Nature has recently given a one dessert spoonful soda. Roll thin,

Salad Dressing.-Mix one teaspoonof dry mustard; one pinch salt, one dash pepper and one egg. Mix with one-half cup vinegar, then add onehalf cup boiling water and set on stove to boil until rather thick. Keep in a cool place.

Fruit Cake.-Three eggs, one cup brown sugar, two-thirds cup butter creamed, one cup of sour milk, one cup molasses, one teaspoonful soda, two teaspoonsful cinnamon, one teaspoonful cloves, one nutmeg, three cups flour, one pound currants, one pound raisins, one-quarter pound citron. Bake in a pan loaf.

Cucumber Chowchow.—Peel ripe or seed cucumbers and measure three quarts; chop three pints of onion and two green peppers. Add one cup of tender nasturtium seeds, two ounces white mustard seed, one tablespoon of black pepper and a few bits of horseradish or one round, syrup until it is thick, then pour over the "By this method M. Tobiansky ob- tomatoes, which have been placed in

ground allspice and cloves and four red peppers cut into shreds. Heat some vinegar to the boiling point and pour on enough to cover the ing point put into jars with a few pieces of horseradish on top of each. Do not omit the horseradish.

Apple Butter.-Boil unfermented apprive the soil of large quantities of produce the smallest loss the return break take out with a skimmer, draining well. Put in a second sup-

apples or as many as the liquid will cover and cook like the Turn all together and let stand over night. Return to the kettle and cook until a smooth mass, stirring often, until the color is brown and there are no lumps. Add spices to the taste and put in small

Stuffed Green Peppers.-Slice large green peppers half way across the stem end and pour boiling hot brine over them and let stand twenty-four hours. Drain and again pour scalding hot brine over, using one-cup of salt to one peck of peppers. At the end of the second twenty-four hours drain, take out the seeds and fill with the following mixture: Chop fine enough red cabbage to make four quarts, stir in three quarters cup of salt and cover with boiling water, let stand over night, drain, add two cups of white sugar, a rounding tablespoon each of whole cloves, allspice and ground cinnamon. the peppers, sew them together, lay in a stone jar and pour cold vinegar over. Keep the pickle under vinegar by a plate laid on and it will be ready to eat in about four weeks. If any stuffling is left put it in a jar, cover with hot vinegar and serve as a chopped pickle.

SHIRT WAIST COMFORTS.

A piece of narrow tape long but if the various kinds of stains are enough to go around the waist and carefully sorted out and properly tie will do much toward keeping the hours of rubbing will be shirt waist in place. The tape red, or 'colorado;' the blue, or should be stitched across the back "azul," and the yellow, or "amaril-A housekeeper whose clothes al- and sides, and well toward the front. lo." The latter must be avoided ways look as white as the driven The front of the waist should be left like snow says that it is best to soak unconfined by gathers, and when the coarse clothes in cold water, but the tape strings are tied together, the table linens and fine clothes need not fronts may be made to blouse neatly be so treated. The same housekeep- and evenly without that baggy look er says, that as soon as she has re- under the arms so annoying to many

When the belt with the pin attacher indispensable, is buckled around the waist, the blouse may be adwanted without any fear that it will gradually widen until it reaches the under-arm seam.

BEFORE STOCKINGS WEAR.

Pasting a bit of velvet or chamois in the heel of the shoe makes it more comfortable for a long tramp and saves the heel of the stocking from wearing out so quickly. One should always darn the heels of a pair of hose before they are ever worn, especially when one wears fine cashmere, lisle thread or silk stockings. wear and the appearance of the darned article; the silk finished cottons are my next choice, while darning cotton loses its color and seems unsatisfactory in other ways.

A NOVEL HOUSE PLANT.

may be obtained by planting the top from a pineapple in a mixture of equal parts. It is equally as pretty pandanus. It requires to be kept constantly moist, same as ferns, but ence and despair is "God knows." not too wet and never allowed to become dry

WHALEBONE GATEWAY.

In many parts of the country whalebones are made to serve useful and ornamental purposes. A case in point is at Shaldon, in South Devon, England, where a gateway is composed of this novel material. Presumably the relics came from a carcass which was stranded on the coast. Bones seemed to have had a fascination for the owner of the house, for they form quite a feature of the dwelling, the name-Hunter's Lodge-on the front being made of knucklebones from shoulders of mut-

mastered all the modern tongues." mother's !"



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WHEN YOU RIDE IN MEXICO

Don't Take the Cab With the Yellow Flag.

Cabs in Mexico city are only & trifle more expensive than in Paris. The charge for one "course" in Paris is one franc and a half, or 30 cents, and the charge for one "viaje" in Mexico city is three reals, or 374 cents.

The cabs are drawn by shaggy lit tle ponies which are driven at breakneck speed, and are forever racing to the curbs on the broad "paseo" at the imminent risk of disaster. The one that arrives first gets the pas-

There are three grades of cabs in Mexico city, which are known as the the plague, which their color seems to typify. They are used to carry the lowest kind of peons, profligates and criminals, and more often than not are carrying a load of passengers who do not pay any fares, but who transfer their affections to any uninfested neophyte who happens to have the misfortune to enter the cab. The blue cabs are acceptable when a red cab is not to be had, but the red cabs are the best.

These three grades are distinguished by little tin flags of the corresponding color which are in plain view up by the seat of the driver. There is a joint in the stick which supports the flag, and when the cab has a fare the flag is bent down.

The cab fares are regulated by law, and a slip of paper must be pasted inside each cab opposite the seat to inform passengers of the rates, but the cabby always expects a slight 'propina.'' For a three-real trip he generally secures half a dollar from a foreigner. The climate is so even and so beautiful and invigorating that more than half the vehicles are open victorias, but the rates for them are the same.

There is just one point upon which the uninitiated is likely to trip. There are scores of "fiestas," holidays, on the Mexican calendar, and on a "fiesta" day the usual rate is olmost doubled.

The drivers are unexceptionally Very pretty and decorative plants dense, and if one makes the slightest mistake in pronunciation they throw up their hands in despair, and resort loam, leaf mold and cow manure, to the universal Mexican fatalistic expression: "Quien sabe?" The only a plant when well grown as any equivalent in English which would indicate the same amount of indiffer-

Of course, the cabbies all try to cheat the "tourista," but an appeal to a gendarme will quickly bring the cabby to his senses. The gendarme in Mexico city is armed with a revolver hanging in a holster on the left side, and he has no comounction about bringing a cabby to time with a flourish of that weapon.

At night the gendarmes stand in the middle of the street with a lantern between their feet. They maintain the same position for hours, but even if they go away, the lantern is sacred. Woe to the cabby who runs over it. A convival Yankee who once facetiously kicked one of the lanterns was stabbed by the policeman. Fortunately the United States was represented in the person of Am-"They tell me, professor, you have bassador Clayton, and he understood the honor in which the police lan-"Well, yes; all but my wife's and her terns are held, and managed to smooth over the difficulty.

