Seasonable and Profitable Hints for the Busy Tillers \* of the Soil.

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COWS AND FEED. Clinton D. Smith, before the Am-

Holstein-Friesian Breeders Association, said in part: "A few years ago, at the Michigan Agricultural College, I had the pleasure of carrying on an experiment to test this question. The grand performance of our three great Holsteins-Rosa Bonheur 5th. Houwtje D and Belle Sarcastic-had attracted the attention of the farmers of the State. Their cry was that 'while you have done wonders with cows, it is all because you had such marvellous stock with which to deal.' The board was easily persuaded to grant my petition and allow me to put in a herd of some 30 grade have an effect on the fat. Cottoncows, to see what the influence of seed meal gives us a hard, and cornpersistent good care and persistent meal a soft fat. The rule is to exdry milking would be upon the periment and find out at what temyields of these cows, and incident- perature it is necessary to churn to as articles of adornment and habitual ally upon the form and caracity of have the butter come right and come costume have completely passed out of the cows themselves. I regret that within from 40 to 60 minutes. Hav- vogue. Shawls of a white, feathery vathe experiment was not continued ing determined that, you have the riety are used semi-occasionally yet, it is the feeding for a single year. To not have the cream contain more place in the temple of fashion. meet the farmers on their own than 25 per cent. of fat, in order to cows, mostly grade Short-Horns, but fat globules to float about and have originators in Paris, the great dressmak- glasses of cracked ice. occasionally one with Holstein room to form and finish. Thirty-five ers of the world, tabooed the skawl be-

ber, and THE FEEDING BEGAN.

We gave them a grain ration well balanced, but composed of such materials as the farmer has upon his farm except that we supplemented the grain feed with bran, cottonseed it will not contain 25 per cent. of meal or linseed meal, according the dictates of the market. The surprising thing to me was that a Holstein grade costing us \$35 responded to the feed so well that she gave us 10,310 lbs. of milk containing 344.14 lbs. of fat in 44 weeks, an average of almost 8 lbs. of fat a week. In fact, the average yearly yield for the whole herd exceeded 7,000 lbs. of milk and 304 lbs. butter. Next to the highest yield of milk came a cow with 9,135 lbs., and then five other cows, each with an amount of over 8,000 lbs. to her credit. Four cows gave over 300 lbs. of fat, and but 11 cows gave an amount of fat insufficient to produce 300 lbs. of butter. More than one of the cows would have gone into the advanced registry had they been pure bloods.

"The lesson I drew from this experiment was that a force pulling in the direction of large and economimilk-giving, is persistent dry milking and persistent high feeding. The trouble with most of us is that, as the cows get farther along in the period of lactation, we drop off the feed prematurely. We follow the fat a little soft. false doctrine that we should measure the supply of nutrients by the yield of milk, and whenever the cow drops in yield we punish her, and, through her, ourselves, by making a side, the

DANGER OF MILK FEVER,

and guarding ourselves against it as we want to continue a good full ration of roughage and grain well through the entire period of lactaindicated unsupported by similar exthe work at the Michigan station as one of those peculiar accidents that sometimes happen, but upon which it is unsafe to predict a general rule, but I have found in the public press, foot pounds (nearly three times that and afterwards in our regards .- Bovee. as well as in the reports from other stations, parallel results, and I have come to believe that continued good feeding, combined with persistent dry milking, is a force that while not of equal weight with heredity, is this trend of assimilated food toward the udder.

As a consequence of the combined efforts of heredity and judicious feeding, we have the formation of the dairy form, the yielding of the outward conformation to the inner forces. The enlargement of the udder and the vessels that lead to and is now nearing completion. The troubles which loom so threateningly in from it, combined with the falling statue is about 33 feet in height the distance will vanish, as you apsway of the parts to which the food of the animal is no longer directed, stands to the crown of the King's results in the establishment of the head. The feathers in his helmet are dairy form. Mark you that heredity about 5 feet extra. There will be is the important factor in this work, space for one or two persons to get and that its supporting force is persistent and prolonged good feeding."

# BUTTER MAKING.

dozen, until finally those little a man up for hours. globules, only about one-fifth of a thousandth of an inch in diameter gradually stick together and become ing erected in Britain at the butter from without waste. So -we land.

keep on churning until more unite, and when those get large enough so that we can readily draw off the buttermilk, when they are about the size of number 8 shot, the work has been carried far enough. If we let them get larger than this they will lockup a certain amount of milk serum, and that will have to be separated again in order to free them from the buttermilk. To stop @666868686868686868686 the work when they are just the right size depends upon the skill of the butter maker. It is a simple A house is built of bricks and stones, of matter when you know how to do it. We do our work on this way : We But a home is built of loving deeds that churn at such a temperature that we can form these granules in from 40 A house, though but an humble cot, to 60 minutes. I cannot tell you what the temperature is. From Hol- A home of priceless beauty, rich in stein milk, Ayrshire milk and the milk from many individual cows, the butter comes quicker than from The men of earth build houses-halls freshly-grated pineapple. Let this cool; Guernsey or Jersey milk, and other milk in which the butter fat is But hard. The fat in the milk of the Holstein and some other breeds is soft, while in that of our butter Eve could not stray from Paradise, for breeds it is hard.

DIFFERENT FOODS

blood. The cows arrived at the per cent. cream is too rich. The lit- cause it is ready for use as soon as it college between August and Octo- tle globules are so close together leaves the loom. So far as London, that in agitating the churn they are Paris and New York are concerned, the liable to attach themselves and become large and of different sizes. We idle. want bath enough for them to float about in. It is perfectly safe to use the cream from the gravity cans, as fat, but do not make the cream from the separator too rich, or it will be too dense for finishing the globules in the best form.

but this does not interfere with seit requires more care. If we find all needs. that 60 degrees is the right temperato come right.

pear, look into your churn, and if ment better suited a comely countenance you are a novice you will look quite and well-shaped neck and bust, nor was often. As you continue to churn you any girdle of leather or silk or quilted gradually become accustomed to the work as comfortable and convenient as business, and you know about how the twisted Kashmir shawl, whose softmuch churning to give it each time. ness caressed the body while it protect-Sometimes the granules will grow in ed it. size very rapidly, especially if the temperature is a little high, or the

# TWO SHOTS A SECOND.

New Automatic Pistol Being Produced in Englan :.

charge 14 grains of cordite, the from the practice of over-eating. muzzle velocity 1,250 foot seconds (nearly double that of the Colt revolver) and the muzzle energy 760 of the service revolver).

# COLOSSAL STATUE.

from the level on which the horse preach them, like soap bubbles. into the head, and for four or five in the head of the horse.

# SIMPLE LIFE-SAVER.

The number of blast furnaces

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Recipes for the Kitchen. Hygiene and Other Notes for the Housekeeper.

What Makes a Home.

sills and posts and piers;

stand a thousand years. within its walls may hold Love's eternal gold.

the women of the earth-God quart of ice water. knows!—the women build the homes.

oh, no matter where Her gracious presence lit the way, lo! Paradise was there.

#### A Displaced Garment.

shawl looms of India might as well stand

bought large stocks of Kashmir shawls oysters until the dish is full, adding seawhich they did so skilfully that the imi- well-beaten egg and a teacupful of milk. tations became very popular. A good black Caree from France, or a crimson At 15 per cent. it is rather thin, Paisley was something which any lady might wear, and although not the real curing good granulation. At 30 per thing, served the purpose, for it was Beat the yolks of two eggs with a half cent. we can get good granules, but decorative, compliant and adjustable to cupful of sugar until light, add a table-

been fed considerable cottonseed sheltered the head and shoulders of a spoonmeal, we sometimes have to churn beauty, or was nobly girded about the hours. up to 70 in order to get the butter waist of a courtier, or merchant, a shawl was something by which you When the granules begin to ap- could judge the wearer. No apper gar-

# Where Fasting Aids Health.

"The practice of fasting," said a medical man who adopts it, "is, when wise- orange and strain for use. followed, most beneficial. am convinced that many people never feel the sensation of natural hunger. All they have is a more flour, two teaspoonfuls of baking powcorresponding reduction in the food A new automatic pistol is being bid craving for food, which comes of der, and one-half terspoonful of salt. supply. We forget the drafts upon manufactured in England by the habit rather than from any actual need Work in one tablespot inful of butter, add the feed other than for the produc- Mars Automatic Fire Arms Syndi- felt by the stomach. Natural hunger one pint of milk, storing into a dough tion of milk, and we forget that cate. It is made of three different stimulates the palate, and is felt in the of the usual consistency. Roll to the these drafts increase as the time for sizes, 0.335, 0.36 and 0.45 inch. The mouth as well as in the internal organs. thickness of half ar inch. Cut into cirthe birth of the next calf ap- magazine is contained in the handle It makes the plainest food seem de cular forms, and fold over once moistproaches. Remember, on the other of the pistol, different models carry- licious, and, when being satisfied, is a ening a little between the folds if necesing from eight to eleven cartridges. source of such enjoyment as the av sary to make them stick. Butter the The weight of the pistol is 2 pounds erage well-fed man has no conception baking pans well, and do not let the 10 ounces. The mechanism is pe- of. Some suffer, it is true, from insuf rolls touch each other. When placed culiar in that the breech remains scient food, but not so many as those thereon, moisten the tops of the rolls best we may during the last three closed until the bullet has left the whose ills arise from over-nutrition, with a little milk, or butter melted in weeks prior to the birth of the calf, barrel, so that there is no chance of their digestions being continually over- milk, and bake in a hot oven. the cartridge bursting by its being strained. A habit of judicious fasting Put one-half a pint of water and two withdrawn while there is still pres- would do wonders for them. The sys- ounces of butter into a saucepan over sure in the bore, consequently this tem would recover its lost tone, and the fire. When boiling, add four ounces tion. Were the experiments I have pistol can fire a very heavy bullet (in the case of mental workers), the of pastry flour; beat until smooth. with a large charge. The weight of brain would work with an case and Take from the fire, and when cool add periments elsewhere, I should regard the Mars bullet is 220 grains, the lightness that would surprise them, for one egg; beat until mixed; add another

# Be of Good Cheer.

The cheerful live longest in years, "If all cannot live on the piazza, every An expert can fire twenty-four one may feel the sun," says an Italian shots in ten seconds, and in accur- proverb. Life is full of sunshine for all acy it is stated that when fired from who wish to absorb it, and full of gloom a rest at 1,000 yards range it will for those who take a morbid pleasure keep all its shots on a four-foot in dwelling in the shadows. Difficulties three tablespoonfuls of sugar; take from one not to be despised in establishing square target, while its penetration and troubles, if bravely met, make the fire; add a teaspoonful of vanilla is 16 inches of pine, against the strong men and women, but anticipat- and set aside to cool. Mauser pistol's ten, and the Colt's ing and worrying about them make petty, weak ones.

Why can you not take your ease and be merry now. If you wait until you conquer all your difficulties, the time for The colossal equestrian statue at lease and merriment will never come. Rome of King Victor Emmanuel II. Laugh, and be glad now, and the

> Our Girls. The compiler of "English as She is Taught" introduces the following luminous essay on girls, done apparently

by a lad of wide observation:-"Girls are very stuckup and dignefied in their manner and behaveyour. They think more of dress than anything and When cream is separated from milk It is not generally known that like to play with dowls and rags. They the fat globules come to the sur- when a person falls into the water cry if they see a cow in afar distance face by gravity or are thrown off by a common felt hat may be made use and are afraid of guns. They stay at the centrifugal process, writes Prof. of as a life-preserver, and by placing home all the time and go to Church G. M. Gowell. When cream is churn- the hat upon the water, rim down, every Sunday. They are al-ways sick. ed, two of them will stick together, with the arm round it, pressing it They are al-ways funy and making fun then three, then four, and then one slightly to the breast, it will bear of boys hands and they say how dirty. They can't play marbles, I pity them, poor things. They make fun of boys be- and then turn round and love them. be- don't beleave they ever kiled a cat or birds no true eyelids. The latter lapses from the excitement caused b large enough to see. They are very ginning of this year was 70. Of anything. They look out every nite are, however, provided with a memthe undue haste of a stranger. Or and say oh ant the moon lovely. Thir brane which can be let down over who runs is supposed to be a thice is one thing I have not told and that is the eye.

the boys now their lessons bettern OUR CLIMATE IS MILDER,

Should be Sponged. You should never, in home dressmaking, cut any kind of woollen goods until it has been sponged, as cheap material is often not dampened before it is sold. To do this properly at home get an Longer Seasons of Navigation ironing-board or table the width of the and Farming Farther goods and cover with tightly-stretched calico. Spread your cloth wrong side up, cover with a linen cloth that has been wrung out in water, and then fame, considers that the climate of press with a hot iron the lengthwise of the goods and do not iron. Never let the iron be still, and the goods must fall evenly on the floor on to a clean cloth as pressed.

### Pineapple Lemonade.

Boil together for ten minutes one cup of sugar and a pint of water. To this add the juice of four lemons and one and chambers, roofs and domes- then strain carefully and add about a

### Layer Cake Without Butter.

Leat two eggs, add two cupfuls of powdered sugar and beat hard for fifteen minutes; add one cupful of milk and two cupfuls of flour, alternating a little of each and beating well. Lastly, add The captain has noticed a great one teaspoonful of flavoring and three It is interesting to note that shawls level teaspoonfuls of baking powder, beat and bake in jelly tins.

#### Fruit Punch.

To one cup each of water and strawlonger, but I want to call your at- right temperature. Then, do not true, but only away from the fashion berry juice, the juice of two oranges and farther up than it is now. The level tention to some of the results of have the cream too thick. I would centres. Shawls have entirely lost their two lemons and one cup of grated pine- of the lakes, especially Lake Supeapple, add one cup of sugar and let it rior, is falling. The St. Lawrence The reason for the passing of this stand for half an hour; then add one River is losing its high level, ground, I went from station to sta- have it in the best condition for very essential garment of grandmogner's pint of Apollinaris water, half a cup of tion on the railroad and drove into securing granules. If it is thicker day is that it is a piece of dry goods brandied cherries, and a few sprigs of the country, buying good average there is not liquor enough for the which is not good for trade. The style mint and serve from a punch bowl into

#### Chicken Pie.

Melt a little butter in a deep baking dish; scatter over it cracker crumbs, sults are, Captain Bernier considers, add a layer of chicken, picked fine, then This same garment, however, has an a layer of oysters, salt and pepper and turn the result of the steady rise of interesting history. In bygone days bits of butter, then a layer of cracker temperature. Lyons, Paisley and Norwich makers crumbs; alternate with the chicken and for the sole purpose of imitating their soning with each layer. Pour over the dainty fabric and delicate patterns, whole the oyster liquor, to which add a Bake an hour.

#### Steamed Prune Pudding.

The following is a California recipe. spoonful of softened butter and a gill of A shawl proper, whether worn by man milk. Sift together one cupful of flour ture, we use that. If it is Holstein or woman, was even in the East an ar- with one tablespoonful of baking powmilk we may have to churn at 55 ticle of distinction, something to be der, and stir it into the mixture. Add degrees or a little above 50, espe- ranked with the robe of honor bestowed next the well-beaten whites of the eggs cially if the cows are fed on corn- by the Indian nabobs, or the yellow and one cupful of prunes that have been meal and silage. If we are using jackets of Chinese Mandarins. It stood soaked over night, drained and the cream from Jersey cows that have upon its own dignity, and whether it stones removed. Chop them with a Steam the mixture for two

### Oatmeal Drink.

This oatmeal drink is a most refreshing beverage for thirsty children, and has the advantage of being very inex- phenomena, as if that continent pensive. Into an earthenware saucepan were, so to speak, being broken in put two ounces of fresh oatmeal, two to ounces of loaf sugar and a thinly-sliced lemon. Mix this with just enough cold water to dissolve the ingredients, and while stirring add half a gallon of boiling water, stirring at intervals till nearly cold. Squeeze in the juice of an

# Vienna Rolls.

Sift two or three times one quart of

and another, until you have added four at least; beat thoroughly again. Drop the mixture by spoorfuls in a greased pan; bake in a moderate oven for forty minutes. When done split them on one side; fill with cold soft custard made by adding a tablespoonful of cornstarch, moistened with cold milk, to half a pint of hot milk; cook for a moment; add the yolks of three eggs, beaten with

# Spanish Proverbs.

Never quit certainty for hope. Losers are always in the wrong. The book of Maybes is very broad. Who robs a scholar robs the public.

A good companion makes good com

ditch. Plough or not plough, you must pay

The disease a man dreads, that he dies Many go out for wool and come home

vour rent.

He who sows brambles must not go barefoot. When a friend asketh, there is no tomorrow.

LOWER LEVELS OF LAKES DUE TO EVAPORATION.

North.

Captain Bernier of North Pole Canada is gradually becoming warmer, and that in the course of the next fifty years there will be hardly any snowfall at all. Just what is the cause of this change of climate he does not pretend to say, but he has noticed numerous indications that it is becoming warmer, and it's is upon these that he rests his belief.

Of course, it is very generally stated by old people that the winters are far less severe than formerly, and that the snowfall now is a mere bagatelle to what it used to be. Time was, so it is stated, when six feet of the beautiful on the level was not unusual in places where the most that has ever fallen in the last two decades has been three or four. change in this way himself, and considers it evidence that the climate is becoming warmer and much dryer.

He has noted, too, that the old sea level of Toronto was, not so very many years ago, over 100 feet will, he believes, continue to

#### DECREASE IN DEPTH.

At Trinity Bay, on the St. Lawrence, the skeleton of a large whal was found 180 feet above the present sea level, and the late Judge O Brien was a witness of the fact. These redue to increased evaporation, in its

Farther north, too, there are infallible indications of the growing mildness of the climate. At Spitbergen the old tidal mark is 300. feet and in Greenland 28 feet above the present sea level. It is possible now to navigate much farther north than formerly in the Arctic Ocean. Behring's voyages have long been beaten, and the reason is because there are now so many more openings in the ice than in his time.

It has been, then, clearly shown, even by these few observations, that the cold center is shifting, and the question is, in what direction 1 There can be no doubt that Europe is much colder than it formerly was, and is becoming still colder. We are perpetually hearing of storms in Europe of greater severity than any in many years, hundreds of years in some cases. It is not merely so in isolated instances, but there seems to be a gradual increase of such

# A DIFFERENT CLIMATE.

There is, Captain Bernier says, more bad weather over there, more dampness, and more snow. It is obvious, then, in what direction the cold center is moving, eastwards.

And this gradual change in climate may be expected to continue. It will then be a considerable factor in Canada's commercial and industrial development. The St. Lawrence and lake ports will be open for longer periods than now, and the season of navigation will be extended. It is not probable that the prevailing agricultural characteristics of the countries will be altered much at least not for a great length of time at any rate, but the captain expects that, owing to this increasing mildness of the climate, vast tracts of land in the far Northwestern portions of the Dominion will be rendered habitable and brought under cultivation.

"I will not see it," he remarked "but you younger people may, and the next generation certainly will."

# RAILROAD SIGN LANGUAGE.

It is not deaf mutes alone who employ the sign language. Railroaders have a tongue of this sort that, since railroading began, has been growing until now anything that needs to be said in it can be expressed as rerfectly as in words. The signals of railroaders are made with the hands and arms in the daytime, and with a lantern in the dark, the lantern signals, by the way, being comprehensible at a far greater distance than the daytime ones. The latter are made with one arm or with both, at the brakeman's option. To go ahead, to stop and to back are the leading ones. The arms moved horizontally and verti-He who has but one coat cannot lend cally make the two first signals : the back turned and the arms pushed out make the last one. The main lantern signals are an up-and-down, Better go about than fall into the a crosswise and a circular movement There are, of course, a hundred oth-For a flying enemy make a silver or minor signals, and these vary slightly in different parts of the country. But the main ones are as common and as intelligible everywhere among railroaders as the Eng lish language itself...

# WHERE RUNNING IS A CRIME

In the city of Hot Springs, Ark. running is a misdemeanour. An person going faster than a walk arrested and fined. This law is i the interest of invalids, wh Snakes have no eyelids at all and throng the streets and suffer remurderer, or escaped lunatic.