should be present to replace that which the plant draws from the soil, and by which its strongth and vitality are sustained."

EFFECTS OF DRAINING.

1st. It removes the surplus water and prevents ponding in a soil. It should be noted, that, if the drains are used, they should be of sufficient size to remove the surplus water in twentyfour hours.

24. It prevents the accumulation of poisons in the soil, which result from stagnant water, either above or under the surface.

3d. The ammonia is carried down into the soil by the descending rain, stored for the plant food instead of stopping on the surface and passing off evaporation, or borne away with the surface waste.

4th. It deepens and enriches the soil by or ening the ground, allowing the roots of the plant to go deeper into the earth decaying after harvest, they form, this subsoil into surface soil, providing resources for the plant more re-liable, and making the same ground better for a greater length of time.

5th. It avoids drouth, by enabling the plant to thrust its roots deeper into the soil.

to the son. 6th. The drainage increases the tem-perature of the soil. In some cases the average has been increased as much as ten degrees.

7th. By securing uniformity of con-dition for plaut growth, it hastens the maturing of the crop from ten days to two weeks.

8th. It enables the farmer to work his land in wet or dry seasons, and in-sures a return for the labor bestowed.

With our land thoroughly drained we can carry on the operation of farming with as great success and as little effect from bad weather as any business which depends on such a variety of circumstances. We shall bave substituted certainty for chance, as far as it is in our power to do so, and made farming an art rather than a venture.-Ex.

CALT AS A MANURE. - The Massachusetta Agricultural Society concludes that salt, as a manure, has a property of hastening the maturing of all grain crops. that wheat on salted land will ripen six to ten days earlier than on unsalted land, all other conditions being equal; that it increases the yield from twenty-five to fifty per cent; that it stiffens the straw and prevents rust and amut; and it checks, if it does not entirely prevent the lavages of the chinch bug. The quantity used may be from 150 to 30C pounds per acre, but the greater quantity is the better.

THE most valuable of all information to spread among the cultivators of the soil is a sound and thorough knowledge, not a blundering and superficial claim to it, of everything affecting the growth of crops, and the best modes of meeting intelligently the numerous enemies which sometimes sweep away the farmers' profits by millions. It may sometimes require years to reach all the facts on which practice may be founded, and thor-ough, deliberate and wise conclusions are better than superficial and blundering haste.

GOOD roots are evidences of civiliza-tion. and a true index of the thrift and public spirit of thuse sections which they traverse.

Why will you let your horses suffer from lameness when you can get Kendall's Spavin Core? Read their advertisement.

POULTRY.

POULTRY ITEMS.

There are people who think raising poultry and eggs for market is small businessanyway ; let all such meditate on the following figures :

Over 20,000 car-loads of live and dressed poultry are carried into New York city yearly, and 25,000,000 of eggs go into the same market. According to the best estimates, the United States produce 800,000,000 of eggs annually.

France exports eggs yearly to the value of \$6,000,000.

In Great Britain the demand for poultry and eggs exceeds the supply. The wild purslane that grows in all

gardens during the summer months makes.ext client green food for fowls that are unfined. Chop it up and mix with scalded corn meal.

One bushel of corn and oats ground together and fed to poultry will pro-duce fifteen pounds of flesh. How many pounds of pork would the same quantity of food produce?

A cross between fine-blooded Light Brahmas and Partridge Cochins will produce the largest fowl known.

After chicks are a month old cracked corn and wheat screenings are better for them than dough.

Exhibition poultry is generally a poor investment for breeding purposes. They are generally stuffed for some time previous to the shows, in order to attain the greatest possible weight, for other points being equal, the biggest bird gets the prize.—Prairie Farmer.

DISEASES OF POULTRY.

Fowls are particularly liable to colds, as the air-cells occupy so large a part of their physical framework. Where there is a slight cold, put the fowl in a warm, sunny place, give warm food, and nothing more will be needed. The same method should be pursued in hard colds. If there is much fever, put four drops of tincture of aconite into the water, or sweeten it, and make it a little sour with sulphur or nitric acid. Add to the food a pinch of ginger or cayenne pepper. If there is much swelling about the head, a mild purge will be useful. The homocopaths give mercur virus for slight colds, euphrasia for more serious ones; each thrice daily, adding aconite for the fover.

A roup may only begin with catarrh, and, like roup, catarrh and bronchitis, sometimes cause death. But how are o to know such cases from roup ? Simply by the offensive discharge of the beak which character-izes the letter disease. When the fowl has a discharge at the beak that is not offensive, you may call it a simple catarrh or common cold. When the odor is bad it is roup. No better distinction is possible in the present state of knowledge of fowl ailments.

The diffically in telling these maladies apart will suggest to the careful poulterer prompt isolation of cases where he is not certain.

Cough may come from parasites in to air passages. This applies more the air passages. This applies more particularly to the ancezing effort caused by the gape worm in the throat of young chickens. A spasmadic cough, lasting a whole day even, is reported as having accompanied the epizodic. It yielded under a treat-

ment with potash. Consumption or tubercular deposits may be suspected where a cough does not yield to treatment, and admits of Black legs are the best for roas no other explanation. Cod-liver oil and entrees, and white for boung.

in barley meal would be the treatment if anyone really wanted to save consumptive fowls.

Asthma is nothing more than roup, as far as we know, and very likely this name may have been given to cases of that sort.

KEEPING EGGS.

In the last week's issue of the Rural Times (agricultural department edited by D. Kennedy, Esq.), we see the following on keeping eggs, a practical test which is worth knowing. About a year ago I put down a quantity of fresh eggs in various ways

for the purpose of telling the merits of each method. The lime and salt of each method. The lime and salt mixture, consisting of one pint of lime, newly slacked, and one pound of salt, well stirred with a ten-quart pail of water, kept the eggs very well for aux months, when the whites began to become clouded and the yolks dark and too tough to beat up. The mix-ture of becswar, melted with twice as much olive oil, smeared, while warm, much olive oil, smeared, while warm, over eggs, kept the eggs well for a year, and some of the eggs yet unused, are still good. Those eggs which were thus prepared and packed in air-slacked lime, kept better then others packed in oats; the latter tasted con-siderably of the rancid oil, which seems to be absorbed.

The oggs covered with melted parafline, kept the best of all, and those of them that were put down in weak brine, in which they sank to the bottom, kept better than others placed in dry salt or in plaster. Since then I have become acquainted with a Ger-man preparation of salt, saltperro and borax, which however, is patented in America. I have some eggs put down in this for five months, and they are equal to fresh eggs, even when boiled for eating, a very delicate test, as eggs very soon exhibit any staleness when so cooked. An omelette made of eggs put down in this solution was very good, and so was one made of eggs a year old kept in parafiline, as was also a sponge cake made of beaten eggs. Paraffine, is easily removed from the shells by holding them in hot water for a short time. The salt and lime mixture and the German salt both kceps the shells in perfect condition, and simple rinsing only is required to cleanse them. I think the German salt promises to be the best, but it is outrageously dear.

TO CHOOSE POULTRY.

In a young turkey, the toes and bill are soft. A young goose is plump in the breast, and the fat white and soft. The feet are yellow, the rest of the The fect are yellow, the rest of the legs thin and tender. Boil it an hour before roasting. Young ducks are very tender under the wings, and the web of the foot is transparent. The best fowls have yellow legs; if very old, the feet look stiff and worn. Pigeons should be quite fresh, the breast plump and fat. Fowls, in a general sense, mean all kinds of poul-tre, but in a limited view one species try, but in a limited view one species of bird. We distinguish this kind in cookery, as the chicken, capon, pullet, ccck and hen. Chickens from their age can not be otherwise than tender. Capons should have a fat vein under the wing; thick belly and rump; comb short and pale; spurs short and blunt and icgs smooth. Pullets are best in the spring just before they begin to lay. Cocks should have their spurs short, legs smooth, and comb short, smooth and bright color. Hen's legs and comb amosth, and full breast. Black legs are the best for roasting

DAIRY.

MILK AS A CURATIVE AGENT.

Milk has the power to absorb obnoxiou, gases and elluvia from the air aro and it, and it should not be forgotten that the purest butter that ever was made may become tainted and poisoned in one short hour by objec. tionable surroundings. Comes now the question of the di-

gestibility of milk.

A glance at a table of the composition of cow's, ass's and goat's, would naturally convey the impression that that of the goat is the richest. This is so, but it is on that account the more aillicult of assimilation. It cannot, therefore, be recommended for the very delicate, but it is a grand adjunct to the diet of those who are just be-ginning to regain strength after long, severo illnesses.

A residence at the seaside to induce a healthy appetite, and a diet consist-ing largely of goat's milk, wou'd re-store many a convalescent far more speedily to health without the aid of

drugs, than anything I know of. A course of goat's milk may often be taken with advantage in the autumn by those who suffer much from cold during the winter months, but who do not care to take cod liver oil. The extract of malt would go well with it as a tonic adjunct. The milk ought to be taken on the principle of little and often, not drunk wholesale.

Ass's milk contains a larger proportion of water, more lactine, and less oil and casine. This is the reason it is oil and canne. This is the reason it is so easily assimilated, and is so often prescribed by the physician for pa-tients who have delicate digestions. It is possible that it may be of a some-what too laxative nature for some, but this is easily corrected.

Cow's milk most invalids can take. It is often an advantage to give it in conjunction with a little aerated water ; and in cases where it has a tendency to turn sour or disagrees with the stomach, it should be mix d with a little lime water. It should be re-m mbered, however, that lime-water must not be taken for any length of time without intermission, or evil results may follow. Cream, if taken fresh in the morning, and if it can be well borne—which it usually can—is an excellent tonic and restorative. It should be taken with breakfast, and the fresher it is, and the more good and pure the milk from which it has been taken, the better will be the result. The cream of goat's milk is probably better than even that of the cow.

Skim milk is very nutritious, but, of course, being deprived of a large pro-portion of cream, it is not calculated to sustain the animal heat so well.

It is not every invalid who can take buttermilk; but it has, nevertheless, much to recommend it as a cooling nutritive summer drink. I might also claim for it tonic properties; how-ever, there is no doubt that, taken an hour or two before any of the ordinary meals of the day, when a feeling of emptiness and fatigue is experienced, it is of a great service. The delicate should have it as fresh as possible.

Milk, talking physiologically, is demulcent, and therefore of great service in many cases of cough and lung irrita-tion, as well as in dyspepsia. I need bardly say a word about the virtue of milk as a medicine for those suffering from consumption. In this case it ought to be drank warm from the terated. Too much of it can hardly be taken, so long as it agrees. In all kinds of internal irritabilities,