

The application of manures takes the spring is worthy of consideration, bacteria. The commonest forms of fattened poultry may be mailed direct cite interest in the subject where gave 7.280 pounds of milk and 241

materials, should as a rule be applied pus cells.

can assimilate them.

cellent when backed up by a little ni- clean and dirty cows, the former on-

growth to maturity, the fertilizing substances required by the must be easy available and therefore

food to enable the rapidly growing simply the sediment in milk that is green food. plants to draw the necessary nourish-thrown out by centrfugal force, and smaller dressings of farmvard mas of the machine. nure, helped by superphosphate or Naturally it has come to be taken the slight extra expense to the milk turn 40 per cent, of the feed into milk citric solchlebasic slag, with nivergen for granted that the cream separator seller. In any event, it is tolerable than 10 per cent, and the latter with

ers should be employed.

Wintering Horses

The feeding of horses during win- a large proporton of the dairy sediseed hay is much better, while oats the milking of the cows, he when it is desired that the animal to the milk in such large numbers enshould be kept n the best of form, estirely owing to lack of cleanliness. farm in winter a fairly remunerative the assurance that each consignment profit may be made.—Agricultural Economist.

Putting Away Tools

care of it will pay to buy those made of tool. little advantage. Iron and steel tint, red is probably 'he best color.



there is time for their decomposition traton certainly does remove some of which are not twenty four hours old. and better adapted than any other liable to degenerate so quickly and conversion into available plant the bacteria from milk, but not much. The introduction of the parcel post kind to the conditions of city life." poor yields? An income from the food when the crops require nourish of course, because these micro organ system will mean much for the poul. This book is well worth while for milk of one cow of only \$28, when anand the crops require nourish of course, because these micro organ and farmers near the larger the farmer and pound from the spring. Speaking in a some of them are requirements of an inch in length—and they will average farms will be greatly increasing the farmer and pound from the larger the farmer and pound from the published by Ginn and Company, Boston, Mass.—M. A. J. f the corps.

Manures may be divided into two lasses:

1. Those quickly available contain. milk finds an origin in the litter in the of goods which do not cost him any ing nitrogen, phosphates, and potash in a form soluble, and therefore immediately effective.

The slowly available, containing as many as two million bacteria may the elements of plant food in a cordinate of the sediment in the litter in the of goods which do not cost him any more and are delivered immediately. When the comb and wattles become throughout the country there are throughout the country there are throughout the country there are thousands of consumers eagerly the vaseline once and the country there are thousands of consumers eagerly the vaseline once and the country there are the comb and wattles become throughout the country there are the comb and wattles become throughout the country there are the comb and wattles become throughout the country there are the comb and wattles become throughout the country there are the comb and wattles become throughout the country there are the comb and wattles become throughout the country there are the comb and wattles become the country there are the comb and wattles become the comb and wattles becom tion that necessitates transformation to found in a series of tests by a awaiting an opportunity to buy eggs, in the soil either by bacterial chem-famous German bacteriologist, that ical, or physical agencies requiring good straw litter produced seven and ducts direct. It will certainly mean

time in the ground are in a position due to the use of lirty milk pails and ages holding two and five broilers. Before deciding to venture deeper to utilize the more slowly acting may other utensils. Thus, with a sterilize nures, but even they benefit by a lit- ed milk pail, the number of bacteria and two roasting chickens, and boxes plant of some one who is going out the active fertilizer as a top dressing per cubic certimetre was only 1200, for two squabs. These sizes will according to the business and find out why. when vegetation starts after the turn while when the pail was simply rinsed commodate the requirements of althe year. Thus for wheat sown in out the number reached 28,000. There most all classes of consumers. the autumn a moderate dressing of is a similar disparity between the bacslow acting farmward manure is exterial contents of milk drawn from

spring wheat, having to grow and ma-though the fact remains that the pollard in the morning and as much ture in a relatively short time and to greater their numbers are in a given wheat in the evening as they could fine assimilate in this brief period an evaptity of milk, the greater is the eat; for sometime they also had a litequal quantity of nourishment, re-chance of there heing netherentic or the meat at mid-lay. Greenstuff was Real Economy Feeding Dairy Cows quire all their plant food in a more conisms of a dangerous character available in plenty in the orchard. A common error in feeding dairy

The Use of the Filter

the ni rogen, should be in soluble is direct evidence that the methods of lay as early as five months, but the come satisfied before she will do her forms-heres the value for spring milking dairy cows are not as cleanly majority, including Leghorns, do not best work. While a reasonably libsown cereals of super-phosphate, con- as they might be. In a large estab usually commence before seven eral grain ration is necessary, the centrated notes a salts, and active ni. lishment like Lord Rayl'gh's, in Establishment's fowls were amount of roughage consumed by a The same consideration annies to breeder" Eng. the milk is cleaned by Epsom salts to each lozen fowls twice large. The large consumers are inturnins, mangolds and notatees, they a special type of centrifugal machine a week for two or three weeks was variarbly the large producers. only have a few months to grow and before it passes through the separ-recommended. The food supply der liberal feeding, a heavy milking therefore require a hiz sumply of for, ator. If no dirt or sediment were in should be reduced till the birds becow requires about 60 per cent, of the tilizing material in an easily available troduced into the milk during milking gan to lay, when it should be increas- feed consumed to maintain the body. condition. Farmward manure, unless time there would be no need of the ed a little. applied in excessive quantities, does filter, nor should we hear so much not furnish sufficient available plant, about separator "slime," which is Manges and cabbages make good for milk production. Thus one well ment, hence the wisdom of giving collects in all the cracks and crevices of milk is quite free of sediment and they do.

and potach when desirable in quickly is also a milk filter, and it is looked certain that cleanliness depends first a greater amount of labor upon as such by many dairy farmers on the condition and the way in mind when considering what ferdiz- hygienic methods in the cowsheds and ly on the methods adopted in strain- young pullets. They will not do well dairy as they might. It is a mistake ing. however, that is likely to cost the milk producer dear, for while one may reasonably expect a separator to remove

ter differs largely according to the ment in milk, it certainly will not get nature rid of offensive and dangerous bacof the corps he is accustomed to raise, teria. And if the producer relics on but hay, straw and, oats usually form the machine for removing dirt, and is their staple food. Frequently meadow inclined to be lax in his methods of hay only will be allowed, but grass ensuing cleanliness during and after two or three times a day as an ex-also rely on it for removing unlesircellent adjunct. It is not unusual, able bacteria which gain an entrance

pecially if it be in daily draught, to Although a cream separator helps to substitute for the night feed of corn remove a lot of sediment and foreign warm bran, to which may be added matter from milk, it is only where Swede turnips, or margolds. In the cream is produced that these machingiving of corn care should be taken es are in use. Ordinary milk sellers not to make too liberal allowance, bedeend on one or other of the various cause it might result in more harm milk filters that are now on the marthan good. Under such a system of ket. Generally, the more progressive dieting, if the farmer has plenty of recognize the advantages of using filhay and oats to spare, very poor ani- ters of cotton wool besides the or linmals purchased at this time of the ary wire sieve strainers. These small year are in excellent condition in discs of cotton wool collect an extrasprng when there is a good demand for ordinary amount of dirt from the trained workers, so that even if there milk, and once used are immeliately be very little to do for them on the destroyed. They cost but little, and

with the corn cob and dry sand. Finally paint the iron with resin and beeswax, in the proportion of four of The wearing out of farm imple- resin to one of wax, melted together ments is as a rule due more to neglect and applied hot. This is good for If tools be well taken the iron or steel parts of every sort

of the best steel, and finished in the Woodwork should be panted with best manner, but in common hands. good, boiled, linseed oil, white lead and with common care, such are of and turpentine, colored to any desired should be cleaned with dry sand Keen the cattle away until the paint and a ccb, or scraped with a piece of is dry and hard, or they will lick. soft iron, washed and oiled if neces- with death as the result. If it is not the boiled oil, with turpentine and "liquid drier," does just as well. Many prefer to saturate the wood work of farm implements and crude petrolany is absorbed by the pores of the

Moreover it will be understood that millions per gram. Much of the broad autumn sown crops which are a long terial contamination of milk is plee en. Poultry may be shipped in pack.

Pullets Were Too Fat to Lay

the possibles and notash, as well as. The use of milk filters or strainers some strains of fowls commence to it is false economy. A cow must be sex, says the "Farmer and Stock-evidently too fat, and a packet of heavy producing cow is surprisingly

Many and varied are the publicaays an English journal.

Farmyard manure and low class or milk are streptococci and leucocytes. The farmer and the city man will be sign along right lines. While the twice as much milk. ganic manures, such as shoddles, wool and where the latter are present in neighbors. Eggs may be laid on a demand has been almost wholly for a Have these two owners of two waste, fish heads and similar refuse large numbers they are regarded as farm one hundred miles from the city poultry book, pige as and cage birds such poor cows the wrong type of one day and the next morning for are included, because they are of more cows is it the old placid contentment before the winter sets in, so that It has been demonstrated that fil. breakfast the city man enjoys engs interest than some kinds of poultry with "average" yields, which are

Scatter all the whole grain in the time before the plants a half million bacteria per gram of a decide l improvement in the private litter during the cold weather. Exer-

the Christmas trade and fatten well. A farmer in the country recently If you have enough birds, put them in rate of soda in spring.

On the other hand, spring sown timetre, and the latter 170,000. Vet all ing of seven months old pullets, lightly the first week, then all they care barlow and hereby and the latter 170,000. Vet all ing of seven months old pullets, lightly the first week, then all they crops, especially cats, barley and hacteria are not of course harmful at. They were fat, being fed on bran and will eat up clean. Use oatmost feed, spring wheat, having to grow and matchough the fact remains that the pollard in the morning and as much commeal and broken wheat ground

active form. From commencement of present.-Farmer and Stockbreeder. Some one year old hens were also cows is to spare the feed in order late in laying, though the moult was that it may last as long as possible. In some things it is economy to save In meagre feeding it often requires 90 per cent., leaving only 10 per cent.

> fed cow should produce as much as four scantily fed ones. In many cases dirt of any kind must be well worth. It is certainly greater economy to

se are points worth hearing in who do not pay as much attention to which the cows are kept, and second. Do not hold keep-over winter very Newcastle Steam Ferry and will only lose money for you.

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Some records of total production ns devoted to the interests of poul- for the last seven months sent in to try culture, and one of the best is the dairy division. Ottawa, showing 'Domestic Birds," by J. H. Robinson, how individual cows on adjoining uthor of "Principles and Practice of farms vary in real earning capacity, Poultry Culture." Mr. Robinson is a will be of both interest to the average poultry elitor of consderable repute, farmer and of value to men who are and during the latt few years has pro-planning for better results next year duced several books on poultry cul- A ten year old cow that calved on ture. His latest book is especially March 12 has given since then just adapted for college and school work. 2.812 pounds of milk and only 102 as well as being a very readable pounds of fat. A neighboring 7 year book for the practical. In his preface old, calved 2nd April, gave 6,420 he remarks, "the object is to tell in pounds of fat, a little more than plain language the things that every twice as much. In another contrast Fortunately for the milk producer. When the parcel post system is inplace in the autumn and spring, and it has been shown that there is no re- troduced in Canada, it will be a most pigeons and cage birds, to reach fun- old calved 6th April gave only 3,394 the reasons why some manures should lation at all between the quantity of decided benefit to the poultry industing the autumn and some in sediment in milk and the number of try. Strictly fresh eggs and specially they will be fixed in the mind, to ex- while a five year old calved 26th March

> keeping cows with the object of mak ing money. A simple milk record By M. A. Juli, Macdenald College, herd earn the most; don't "average shows definitely which cows in the good and poor together, keep the best but make sure that each cow pays.

> > The large kind of West Indian fire fly gives a light so bright that by it printed matter may be read at a distance of two or three inches.

A new administration building has the Ontario Agricultural College. This will be of great service to the

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TIME TABLE

(Every day except Sundays)

8.00, 8.30, 9.00, 9.30, 10.00, 10.30, 11.00,

3.45, 4.15, 4.45, 5.15, 6.45, 7.15, 7.45,

Leave Chatham Mend A. M .- 7.15,

7.45, 8.15, 8.45, 9.15, 9.45, 10.15, 10.45,

P. M.-12.15, 1.30, 2.00, 2.30, 3.00

3.30, 4.00, 4.30, 5.00, 5.30, 7.00, 7.30,

SUNDAY TIME TABLE

Leave Newcastle-A. M .- 9.88, 9.40,

P. M.-12.30, 1.45, 2.15, 2.45, 3.15.

3.45, 4.15, 4.45, 6.15, 6.45, 7.15, 7.45,

Leave Chatham Head-A. M.-9.20,

P. M.—12.40, 2.00, 2.30, 2.80, 3.30, 4.00, 4.30, 5.00, 6.30, 7.00, 7.30, 8.00,

After the 15th October the last boat

will leave Newcastle at 8.45 unless

11.30, 12.00

11.15, 11.45.

10.20, 11.20.

8.20. 8.40. 9.25.

8.30, 9.00, 9.45.

10.0, 10.40, 11.40.

8.15, 8.45, 9.15, 10.00,

8.00, 8.30, 9.00, 9.30, 10.15.

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Due to Other Banks 3.118,902.00	
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\$178,316,130.29	
ASETS	
Cash on hand and in Banks 4 \$30,476,000.19	

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\$178,316,130.29

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