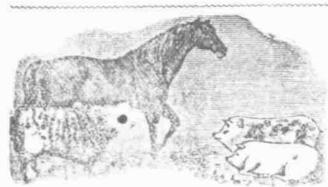
CONCLUDED FROM PAGE 1

according to instructions which will Chemist will agr e to make an analysis out the true worth of the goods and put our correspondent under the protection of the State through the regular channels of the fertilizer control. F. E E.

ascertain the standing and reput it on of any any company before patron zing it W S. Powell & Co., of Balta more, deal in all agricultural chemicals and fertilizing elements and, like all firms whose ads we carry, have an unsullied reputation for honesty and fair dealing. - ED]

Now is a good time to give a good coat of paint to all farm implements as it will only be a short time till spring The paint should be thoroughly ap plied to receive the best results.

LIVE STOCK



FINE WOOL SCARCE-THE OUT LOOK.

Correspondence of the Progressive Farmer. If anything has been emphasized by this season's wool market it is that to finest grades of wool are in greater demand than supply, and that the mil owners are willing to pay a premium for such sicck. There is at present an actual famine of the wool in this coun try. Not only here, but abroad, too, for the Australian supply is small, and London is advarcing its bids for five wool nearly every week. We have been exporting fine wool to London until dealers are afraid to part with any more until the new clip comes in In fact the fear is expressed in Eastern markets that the supply of even ordinary wool will hardly be sufficient for the spring demand. What the new elip will contain in the way of fine wool is only conj ctural, but it is to be hoped that there will be plenty of this grade, for that means increased profit to the growers. A good thing always means a better profit than a second of the former, and in every case where rate thing.

The remarkable condition of the wool market this season is apt to make many forget all except the one desire. and tost is to raise as much wool as soon as possible for the markets while prices rule high. It may be that those who go slow, and raise only the finest grade, will fare better in the end. Wool with a long, fleecy staple is less likely to fluctuate and decline than toe coar e shoddy wool that nearly every body can raise. There are indications all over the country of many new hands trying their luck in the sheep business. They are buying up parts of flocks and single animals as a sort of speculation. If cheap grades of wool continue high they will make some money on their speculation, but if the country should suddenly get all this wool needed there would be a lose.

The only sure protection against a reaction from present good times in the wool trade is to add to the flocks only such animals that will produce the very finest firese. Then with good feeding and care one need have little reason to fear troublesome times shead. One is safe in raising as many highbred, good wool-producing sheep as his quarters will permit. There was never a surer business that promised a fair return. I do not mean to say that riches or exproitant profits will be made thereby, but that good profits satisfactory to a sensible man must be assured. This view of the matter can farm. hardly be questioned by those who have studied the present wool market and the outlook of the sheep industry in this and owner coun ries for the part six months. Our flocks are still too emall to threa en the future with a surplus of woo!, especially of the highest cellent table fowls. grade. E. P. SMITH.

CHARCOAL AND ASHES FOR HOGS.

Several years since the Missouri Station conducted an experiment with ashes fed in connection with corn, bran and other grain to hoge to ascertain to what extent the bone could be strengthened by the use thereof. Some were fed corn alone, others a little corn and bran, others ship stuffs, ground corn and wheat, one lot having access to a trough of ashes during the period of the test It was found that the bones of the animals fed ashes were twice as strong as those fed corn alone and of much greater rigidity than the lot fed a mixed ration. The ashes made the strength of bones almost wonderful, resisting great pressure and weight brought to bear in testing them. The

be sent to him on application if the attr advised their liberal use by all the largest eggs. swine growers as a means of growing The Javas are an excellent table fowl or loss where the hogs have access to cross breeding may be made profi able. them all the time; charcoal m x d with But if carried farther, using a crossthe ashes makes the latter more eager | bred is breeding back, and it is largely | of animal is accompanied in only one [Our correspondent will do well to ly sought by the hogs and they eat on this account that cross-breeding is case by the lowest per cent of fat, and their fill of buth with greater avidity objectionable. than if they were fed separately. Bays a correspondent.

> Charcoal, it will be remembered, has been strongly recommended as a preventive of cholera, and from an ex. periment made by the writer consider able faith is pinned to its partially demonstrated merits in this regard A lot of shoats were wintered in a woods pasture, and were fed a little corn mornings and nights; there were sev eral piles of ashes and charcoal in the pasture where brush piles had been burned and frequently the hogs were seen rooting in them and eating the cnarcoal and of coarse considerable ashes. They had beds of leaves and legs, but the firsh will be white. orush and through the pastures can a little branch containing water from a spring. There was of course a good supply of nuts and roots in the woods hens. which the shoas found so that with these natural articles and the corn fid them they had a pretty good variety. The herd that used about the barnyard was attacked by coolera and many died, while the rugged, long haired youngeters in the woods were unnarmed, and went through the winter in splendid shape. It is a question, nowever, whether the charcoal prevenied them contracting the disease or fowls. In all breeding, care in select outdoor life and the fresh, pure water suits are wan'ed gave them such a system of hardiness and staming as to r set the encroach ment of the germ. They were very strong, vigorous hogs and grew rapidi under their rough treatment; it may be that the cholera germs did not get among them, as they were never in contact with the inf cled animals, yet dogs and men with percaps handreds of germs on their shoes were fr quently in the words pasture. We have in clined to the opinion that the charcoal nelped considerably and that the pure water and exercise sided very targely in successfully compatting the germs. It was a case of sugged nature against disease, with many advantages in favor tais condition is present the disease germa are were ligaly to yield and dia.

The Poult y Yard

CHARACTER STICS OF THE BREEDS

There is a large number of breeds and many of them pass so the same characteristics, says a writer in the St. Louis Republic. Generally a preed that excels in one particular will fall snort in another, so that in determining which bread to, select the purpose which the fowl is wanted should al ways be considered.

The Langstan chickens lay best in the winter. They lay a good number of egge, and of good size, mature early and are an excellent vable fowl

The Brahmas come next to these, the light colored variety but ig considered superior to the dark.

Of the four varieties of Cochine, the partridge is considered the best for layers, the buffs the best for table towls, the whites and blacks following

Oce advantage with both the Coch ins and the Brah nas is that they are

The Plymouth Rocks are good lay ers, good table fows, good foragers, and, like the Wyandottes, are good general purpose fows, excelling in no one particular, but hard to beat on the

Leghorns, Minorcas, Spanish, Anda ayers, are not setters, but are very poor table towis.

The Houdans, and, in fact, the whole French class, are fair layers and ex-The games are considered as among

the best, if not the best, as table fowls, and are fair layers The Polish and Hamburg are per-

The Laghorns cannot be excelled for

aying, but they are small and not good



To produce a fine table fowl, cross a strong, full breasted pit game cock with D rking hene; this produces a table fowl almost equal to a turkey.

A good cross to produce good layers of medium size is that of the brown Leghorn cocks with Partridge Cochin hens, or a white Leghorn cock with a light Brahma hen.

chickens is a Plymouth Rock cock with Brahma or Cochin hens.

To secure good table fowls, and also combine good laying qualities, cros a Houdan cock with Langshan hens One result of this cross will be dark

To produce a brood of good layers, the eggs being of extra large s zo, cross black Spanish coess with Lingshan

To produce a good market fowl, one that lattens readily, and is easily confined, cross a Brahma cock with Par tridge Cochin hens.

To produce the best setting hen, one that will remain in the nest, hatch well and prove a good mother, caring calving there is but little average well for her chickens, cross a pit game cook with Partridge Cochin hens This cross will also produce good table whether their freedom and habits of ing the best is important if the best re

THE DAIRY.



inquiries regarding Dairying cheerfully an

STUDIES IN MILK SECRETION.

borrespondence of the Progressive Farmer. In 1894, in response to inquiries from several breeders' associations, the Cornell University Agricultural Experiment Station agreed to send an author. | younger at imals ized representative to supervise the milk and butter records of thoroughbred cows for any one desiring such | the per cent. of fat nor those which records made, upon conditions laid show sight variation are abnormal down by the station Thus far there has been but little call for sup rvisors milk and fat is near the average for of such tests, except among members | their cas. of the H istem F i sian association of America In fact, there has been but and forced to their greatest capacity one seven day test made of cows of any for a week rarely reach the same other breed. In 1885, this association | height of production again during the adopted a set of rules establishing whatis known as a system of advanced | the circumstances be otherwise most registry, into which no cow is allowed favorable, but frequently have made to be entered until she has made a certain record for milk or butter production, the amount of this record depend ing upon her age. The wisdom of adopting such a system has been at tested by the uniform succ as attend ing the carrying out of its provisions. and in 1894 the association added another and still more valuable feature consisting of what was called "ffi cially authenticated butter records.' For these records poly amounting to about \$1 300 are given annually. "Such records must be for seven consecutive days and must be supervised by ar officer of some experiment station or State institution, or by the superintendent of advanced registry or some inspector designated by bim " The rules also provide 'that such records may be made by the churn or by the Babcock test, or by any other mathod approved by the A sectation of Official Agricultural Caemists, ' The Babcock usians and Hamburgs are the best test, however, oring to its simplicity and accuracy, has been universally adopted as the means for determining the amount of butter fat produced from which the equivalent butter is

calculated. Tae bulletin describes the methods o' making these tests and keeping records of the same, and states that in eight herds 210 tests were made of 153 dif sistent layers, but are very poor table ferent coss. Some were tested twice and a few as many as six times each From such a mass of material it is difficult to glean the more important points and place them in digestible

form before the general reader, but we have attempted to draw cut those points that appear of most scientific and practical importance to the student, breeder and dairy man, and to place them in as readable form as possible. With so much data at hand it is natural to make many tables, but we have endeavored to eliminate all such

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experiment proved that ashes contain table fow's. The brown Leghorns lay as show figures merely and to present and formation, and the station there- Minorcas, Spanish and Houdans lay from which some practical conclusion can be drawn.

The largest total yield of fat among of the goods Tois course will bring strong framed hogs and guarding and fatten very readily. When bred 2 3, 4 year old, or full aged cows is, against their breaking down in the for an especial purpose and not car- under every age, accompanied by the back. The ashes are placed in the pens ried any further than the first cross, highest per cent. of fat found among cows of that ago.

that among the 2 year olds.

The largest yields of milk do not con tain the lowest per cents of fats nor do the smallest yields of milk contain the highest per cents of fat.

The stall fed cows averaged higher in total viels of milk and fat and in per cent of fat than the cows at pas

Equal quantities of the same kinds of One of the best crosses for market food or similar quantities of different kinds of food produce widely varying amounts of milk and butter in differ ent animale.

> amounts of milk and butter different animals require widely varying amounts of food.

Cows, although of the same breed and raised in the same herd, vary greatly in their power to make an e.o. nomic use of food.

The cost of production is greatest amon 2 year olds and decreases gradually as the age increases up to four years, after which there is little, if any, variation.

Within a period of ninety days from variation in the per cent. of fat among the different ages, except that the aver age of all the tests made at thirty one to sixty days from calving is lower than for any other period,

There is slight variation in the aver age per cent, of fat between 2 3 and 4 year-olds, and full aged cows.

minnight than at noon.

The average range of variation dur ing sev n days between the highest and lowest per cents for individual animals is greater among 4 year olds and ful aged cows than among the

Neither the cows which show very great variation during seven days in animals, since their total product of

Cows which have been once tested same p riod of laciation, even though increased records in succeeding periods of lac atton.

There is an increase of only 7 5 per cent, of mak and 7 7 per cent in fat of full aged cows over 4 year olds, which very nearly reached their largest pro duction between the ages of 4 and 5

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the elements conducive to bone growth the most eggs, the white Leghorns, only those which teach some lesson or Horse Owners!

The smallest yield of fat for each age

To produce the same or similar

The highest per cents of fat usually follow the shortest p-riod between miltings. The lowest per cents of fat usually follow the longest period be tween mikings. Where the cows are milked at qual intervals the highest per cent. c urs most often at or near the noon hour, at d the lowest per cent. about equally often at morning and night, with a much larger number at

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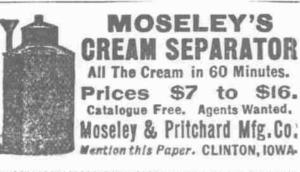
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