As a rule, sheep possessing these

NOTES FOR THE FARM.

fast as the winter leaks in.

WHAT IS GRIT?

abundance of gravet provide no gritty

material for their fowls. Now, a fowl

always selects the hard substances

with cutting edges. Give a piece of

polished as though done by machin-

ery. The grit is intend d to cut more

be but little sharp material left, and

MAKE YOUR HENS LAY.

2. Never fatten the pullets or hens.

2. Give them all the liberty you

4. All the warm shelter by night

un the ground a little.

ford or throw among straw

Hot mash in merning

9. All the green regetables car

ron will have the birds earning money

for you in the hard frosty times - Ex-

Net imports of gold, November

Cost of New York subway, \$40,000,

Amount saved by the American peo

Standard Oil Company fine \$29.

Amount saved by the American peo-

Largest benefaction ever made in

hropist, \$12,000,000.-Harper's Week-

"Cured Patient" as an Occupation,

found in Paris a new calling, "play-

ing the cured patient." Visitors who

find time hanging heavily on their

looking woman, who is evidently in

the pink of health, tells the visitor

how ill she was. Neuritis, rheuma-

were combined in her case with an

pendicitis and hallucination. Several

physicians treated her expensively and

left her worse. She went in despair

to the present doctor, who cured her

in three weeks. She has come today

Good-looking young women have

ple wearing clothes one-fourth longer,

to December 31, 1907, \$100,000,000,

rots, turnins, mangold obtainable.

10. (Yean water every day,

11. Nice dust bath.

for a year \$110,000,000.

a rear, \$53,000,000.

Hard grain at night

Make them work for their food

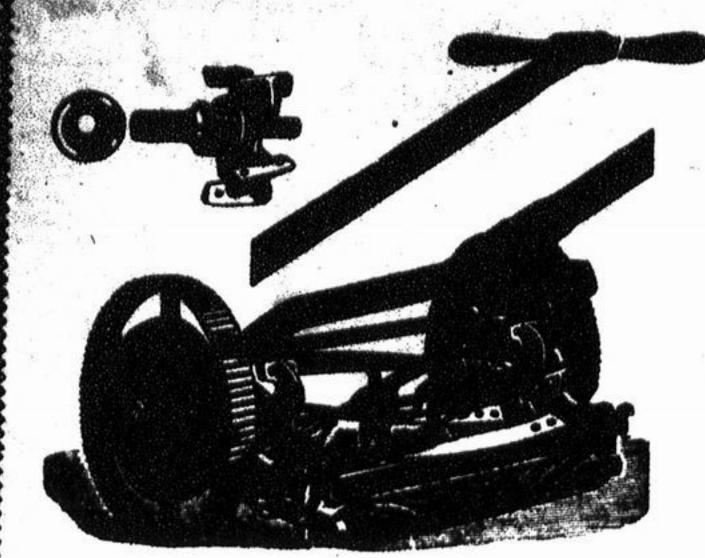
Give cut green bone twice a

than to grind the food.

1. Feed judiciously.

Farmers who live where there is an

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prices for good work, no poor work at any price." Pittone tone

In order to obtain these results.

CARING FOR THE BROOD SOW. As "like produces like" the breed- | we must see that our mutton sheep ing sows should always be selected possess straight backs and under line. from large litters, from sows that with the ribs well sprung and a are good millers and good mothers. | broad, thick loin with full, round quar-A sow that is not a good feeder will lers. produce only small litters, will be a poor milker and her pigs will grow points you will generally find evenly so slowly as to make their profit a covered with fiesh or muscle from question. It is impossible to judge chops to tail. A sheep that is unevenaccurately of the milking qualities in ly covered with flesh or is lumpy a gilt, but usually a chunky, easily along the back, always has a weakfattened, heavy boned and short-leg- | ness of the muscles. is the less attractive-looking one with to see that our mutton sheep possess milk they need during the first six of our breeding flocks, Indiana Farm- gen in the soil the more water and the weeks, they became stunted in a way er. from which they never fully recover, and many pigs which die before they learn to eat solid food die of starvation. A sow which is a good milker change their methods with the chang-

is usually a prolific and carefur ing of the seasons.

Some of the more noticeable demay be corrected by mating her with a boar which is unusually strong the day, and it is easy to make her where she is weak. If the sow is comfortable during that half. long-beaded, long necked and longbodies, she may be mated with a boar | selling the culls, and don't forget to having the opposite characteristics, order new birds for breeders. If the sow has weak legs and her! When you want to eat a tow! do dew claws touch the ground the boar | you always select the well-developed, backed the hoar should have his back | soon develop a lot of scrubs from well arched. On the other hand a the best dock on earth. the boar is not counter-balanced as lier off they will be. readfly as one in the sow, on account! Winter drafts in the poultry quarof his greater prepotency. A boar ters may do more injury to the birds and a sow having the same defects | than the winds whistling through should never be mated. Similar de the tices would do to a fow! roos:ing fects are almost certain to be great. out-duors: but do not shut poultry ly exaggerated in the pigs. The in a building without any veutila-Farmer.

FEEDING ACCORDING TO SCIENCE full fred of hav once in twenty-four hour .: A horse to be in perfect health should have the stomach emptied the previous meal for two or three hours before he is given another. such is not the case, digestion will not take place in a perfect manuer. and disease will likely result. There is a remarkable sympathy between the stomach and the lungs because of the fact that the same nerve trunk aunplies nerve force to both organs. When the stomach is deranged from improper feedings the lungs are liable to become sympathetically affected. and heaves often result.

Care should also be taken that a horse should be fed no dusty or mus ty hav This dust is as light as air and the horse in breathing draws it right into the lung tissue with ery breath, and this substance. ing an irritact, is very prope to by sprinkling with water, when the horse will not breathe 'I, but it will be swallowed with the feed and probabir de him no harm. But when at all persible only bright clean hav. free from dust, should be fed to bors

Again, no horse is in fit condition for active exercise with the stomach ach, situated as it is right behind lung space, if full bulges forward lungs have not room to properly pand and cannot perform their functions properly, and anything that to terferes with the function of the Reed in the Weekly Witness.

DAIRY NOTES

There is no fixed ration for a herd of dairy cows. Each animal has its own peculiar characteristics which must be ascertained by observation and eatered to in order to obtain the best results. Each animal should be fed according to its preferences and those that do not respond to good treatment should be discarded for a year, \$223,000,000. there more profitable.

Milk that contains blood indicates her 1, 1907, \$173,000,000. that the cow has received an injury to the udder. Wash the udder with warm water twice a day, the water to be so warm as the cow will bear; wips dry and gently rub the udder with a towel until considerable heat is created. For warts on adder or teats, apply castor oil after each milk. ing washing the parts with warm water when the cow is next milked.

A cow is valuable only according to what she produces and its cost. One cow producing fourteen pounds \$120,000,000. of butter is more prof able than two cows producing seven pounds each, 900,000 because she requires less room and also entails less expense for food and nie wearing hats one-fourth longer, fabor, thus producing butter at a low- \$12,006,000. er cost per pound

Farmers who consider that \$300 one year by any American philanis too much to pay for a fourteenpound butter cow should remember ly. that no outlay is too great, provided the returns therefrom are satisfactory. There is a great difference in the orice of a purebred Jersey and a common cow, but there is also a wide difference in the butter pro duced.-Epitomist.

MUTTON SHEEP

In our flocks we must have head animal to possess for the development of the more expensive cuts of the butchers' ideal; and in order to bring

THREE PLANT FOODS. The Specific Effect of Each

(Reported by Arthur J. Hill for His-

nois Farmers' Institute.

Plants Told by Director Hall

of Rothamsted.

The results of nitrogen are seen at once in the greener and more abundant eaf; it makes the whole plant go ahead, and the farmer is apt to think more of nitrogen than of phosphorus and petash because he may have to wait till harvest and actually weigh the product to see their results. Niged sow is not as good a milker as Therefore, we must educate ourselves trogen increases the vegetable parts of the plant and an excess of it tends to a longer body, longer legs and some. the eventy covered backs of muscle make the plant go on growing too long what less rounded sides. Form or flesh, and having that "sensitive" and defers the production of flower should not be wholly sacrificed to touch known to all good judges; with and seed; it puts off the ripening. Exthe production of large litters and full, round quarters-thus endeavor- cessive hitrogen has doubled the abundant milk, but good milking cap- ing to get as much of the higher- amount of wheat straw but reduced acity is essential to a good sow. If priced cuts as possible without im- the percent of wheat grain from 62 the pigs are not able to get all the pairing in any way the constitution down to 48 per cent. The more nitro-

> MORE NITROGEN MORE DISEASE An excess of nitrogen makes the Poultrymen should not fail to plant more susceptible to disease. Mangolds at Rothamsted are swept! every year with fungus diseases, while If the hen-house roof leaks in winthree feet away are perfectly sound. ter, the egg profits will leak out as healthful beets. The infection is alike in both places, but "takes" only on the A hen is on the roost almost half plots having an excess of hitrogen. The diseased leaves are seen forn. shriveled and rotten. Wheat fields get Keep culling the flock, cating or rusty and weeds are mildewed on high uitrogen land.

less sugar in the beet

PHOSPHORUS RIPENS GRAIN. Phosphoric acid applied to the soshould have unusually strong and ones and leave all the scrubby ones harries on the production of flowers and seed, the ripening of the grain, to breed from? This method would Right now it is making a difference of ten days in the appearance of the bar boar which has weak points can ofter! Have the drainage away from, not bey grain. Phosphorus is of enormous be used with success on a sow which I toward, the hen-house. Except for value in justing the crop on to ripeis unusually strong where the boar drinking purposes, the less chickens nest. It is also an extraordinary stimis defective, though a weakness in come in contact with water the bet plant to the formation of roots, and side shoots. This is a certain fact. POTASH FOR SUGAR AND

STARCH.

It is the special action of potosti to ald the plant in making carbohydrates congar and starch). This process cannot go forward unless parash is present; to herease this process increase Chickens make a poor combination the potasti, Beer yields at Bothamsted with turkeys, ducks or gress, where have been more than doubled by the all are fed together. There is some addition of potash. Each of the three advantage to having different kinds fertilizers has a specific effect and of fowls, rather than to increase the should be applied according to the speflock of chickens to a large number. the meets of the crep. but it is unwise to feed or water all

PHOSPHORUS RIPENS CORN. kinds together.-Progressive Farmer. by Cyril G. Hopkins of Illinois said that the ripening effect of phosphorus had been seen in a very marked manner the past half dogen years on the old experiment plots at the university. The continuous corn plot, producing twenty-five to thirty lumbels per acre. is usually caught by the front, while two weeks before that time the plot with plenty of manure and phosphorus has ripered up 100 hapdress per acre of

has had the run of a field there will NO INJURY PROM ENCESS OF EDIORITIONE'S.

will not awallow the smooth "I never sow an overabundance of gravel except as a last resort. To phosphorus," said Director Hall, anlest this matter pound some broken swering a onestion. Ten times as class or china and it will be noticed of brillegg greet east federag ea shount the fowls will swallow the piecsome of the Rotlemested plots; the exwith widity, although they may but lies dormant in the seil and a: liberty on a gravelly run.available to increase future crops there is no infurious effect. Seither is there are danger of overdoing the growth of legumes.

If the soil is acid and rich in organic natter the natural phosphorus of fine ground took phresphate is the local form. On a light beam with plents of time the acid form of phospherus is

PROSPRORUS ADDS A TOX OF CLOVER

I'm Hopkins said that to effect of phosphorus in Illimois is more marked than its offert on clover. As an average of the last five years it has increased the yield a ton per acre at the university - Director A. D. Hall of Rothamsted Experiment Station, Harpenden England, in address at Unicorsity of Illimois, July 7. 12. Then if hatched at right time

FARMERS WANTED

Washington, D. C., July 18, 1908. Wanted 2,000 practical farmers When We Take Care of the Pennies. who would like to own homes of their Amount saved by the American peoown. The government has hearly 200. ple eating one-fourth less meat for fin acres of land tring under the various irrigation projects, throughout United States gold reserve, Decemthe West, for which water will be available next season. The farm unit Amount saved by the American peoon these projects tarles in most cases ple drinking one-fourth less liquors from 40 to 80 acres of irrigable land, depending men lection. In many sections a tract of grazing land has been included in the farm unit wherever Amount saved by the American pecpracticable, bringing the total up to 100 ple smoking one-fourth less cigars for

> The only charge for these farms, he sides the regular land office for for fi ing, is the actual cost of getting water to them, and payment may be made in ten armual instalments, without inter

These irrigation projects are seat tered over the entire arid region, from Canada to the Mexican Hije. In consequence, every variety of crop grown in the temperate zone can be raised under them. If you would like a fruit or dairy farm, a garden for market truck, a tract for diversified farming hog or poultry raising, just write to the Statistician of the U.S. Reclamation Service, Washington, D. C., for particulars.

Saving Doctors. Knicker-There are plenty of books hands in a doctor's waiting-room are telling how to save life while waiting drawn into conversation. The good- for the doctor.

> Borker-Yes. What we need is one telling the roung doctor how to save life while waiting for the patient .-Harper's Bazar.

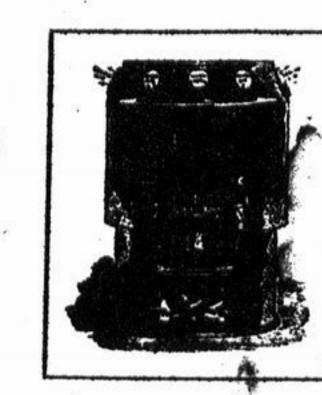
Didn't Know It. Patience-Do you know anything thout this Esperanto we see so much about in the papers?

Patrice-No. I really do not. There are so many of these new breakfast foods being advertised that it is hard for one to keep up with them !-- Youkera Statesman.

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The Tangled Web.

Charley is the white-haired man employed by a southern family on Charlotte street. And Charley is cantions about leading anything. The other day a man new to the neighborhood appeared at the door and asked if he could borrow a spade. "No. sir." said Charley. "Ain't got

no spade." "Haven't you any sort of a shovel rould use to dig fishworms with?" "No, sir, sin't got no shovel." The stranger hesitated a moment and

then naked:

"Do you suppose the folks next door "No. sir," replied Charley, promptly, "they's : " 'm time a-horrowin' our'n." Kausas City Times.

tiways Broke. "I'a, what is an inventive genius?" "He is generally a fellow who wants

The wise guy who knows which shell the dittle pen is undersia usually the first to yell when arm