PURE-BRED CATTLE ARE BEST

To Be Successful Little Details Must Not Be Overlooked—Keep Up Records of Animals.

well-selected breed of pure-bred cattle is a source of much pleasure as well as profit, but to be successful details must not be overlooked. Many reeders and beginners are too careless. They keep no accurate records of births, neglect their cattle, fail to keep up the records, do not take proper care of their cattle in winter, and Sow. are often caught with a lot of surplus and unmerchantable bulls on hand and no buyers. Let me add that the only way to dispose of surplus stock is by udicious advertising in some good arm and stock paper, says a writer

Keep your herd in nice, healthy condition, so you will not be ashamed to show your stock to prospective buyers. Make a yearly exhibit at a few leading state and county fairs and present your stock in the most attractive follow at home, as well as at the fairs. In de-



buyers, by mail or otherwihe, never overestimate the merits of an animal.

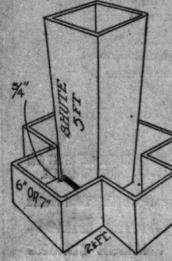
Make good every statement, and make
every buyer a friend. It is cheaper
to retain your old customers than to

There is no better way to restore or There is no better way to restore or keep up the fertility of your soil than by keeping a herd of beef cattle, saving and applying the manure. A liberal supply of both grain and rough feed should be grown and consumed by the cattle. They should be kept well-bedded in the barns and all strawstacks converted into manure and re-turned to the soil. A well-bred animal will not consume as much food as a scrub, and will always sell at a profit, even if sent to the butcher. The best individuals will bring a fair profit to the owner when sold for breeding pur-

SAVE GRAIN IN FEEDING HOGS

Twe Troughs Conveniently Arranged
That When Corn is Devoured
More Will Follow.

Make two troughs six or seven inches wide and two and one-half feet long. Fit these troughs together so they will cross in the middle, writes J. E. Spencer of Mount Pleasant, Tenn., in the Missouri Valley Farmer. Make a chute five feet high, large at the top



to fit into the cross of the troughs, leaving it three, inches from the bottom of trough. Shell your corn and pour into the chite. As the hogs eat the corn in the trough more will fall down. The hogs' feed is clean, and no corn is wasted.

Weaning Pigs.

Sefore the pig is taken away from its mother to be weaned, it should have the eating habit well developed. It should be developed so well that, taking away the mother will not interfere in the least with the pig's growth. Of course a pig knows well enough when his mother is gone, and he cannot nurse but must get his feed in his trough. It is a fact that when they know how to eat, and are fed regularly, taking the mother away will annoy the pigs for about one day, and the trouble is all over.

Raising Early Lambs.

The sole object in raising early lambs is to produce a fine animal of good size and flesh and get him to market at the earliest posible moment. To do that requires good feeding, good care and good management from the time he is born until he is

Shelter for Swine.

Swine like a little sunshine but they ought not to bilster in the summer glare for want of a shed or some shelter on the hottest days. Such a shed should have a good tight roof, too, and should not be turned into a slimy wallowing place.

HOLD ON TO GOOD BREEDERS

Pige From Large-Bodied, Old Sowi Number More and Often Double in Size When Farrowed.

(By J. W. INGHAM.) Sows should be retained for a num-ber of years until their places can be

filled with their equals.

It is well known that the progeny from mature parents are superior to those descended from young progeni-tors not fully developed. Boars and sows for breeding should be kept in a good thrifty condition but not fat.

The writer has always been trou-bled to keep his breeding sows from ecoming too fat and consequently farrowing a small number of scrawny pigs.

I once took a large sow to fatten for one-half the pork. I did not know she was with pig and fed her all the corn meal and wheat middlings she

Imagine my astonishment and vexa-tion when she had three little dwarfed pigs-not only smaller than pigs usually are when first farrowed, but ema-

Sows for breeding should not be allowed to run with the fattening hogs fed on corn but kept in a pasture by themselves and given a plentiful sup-ply of slop made of equal parts of wheat shorts, corn meal and wheat

Most young sows will breed when three months old if allowed to run with a boar, but eight or twelve months is as young as is judicious to reed them.

The pigs from large-bodied, old sows

will be more in number and fre double the size of pigs from young sows when farrowed, and this with the same feed and care and will frequently weigh 50 per cent more at a year

Not only this, but it stunts or dwarfs the growth of such young things permanently and they never at-tain good size.

GOOD FEED-RACK FOR SHEEP

Grain Trough Placed Beneath Saves Chaff and Leaves, Most Nourishing Part of Feed.

The rack is made with a pole for the bottom rail and a piece of 2x6 inch scantling for the top rail. The crossbars are pieces riven from an old piece of timber.

These crossbars are four feet long and about one and one-half inches in

ecent years.

The amounts of nitrogen assimilated by the pea and similar plants on rather unfertile soils were frequently



rails are made with an inch-auger.
The crossbars are trimmed to fit the
holes and then wedged to hold them
The bottom rail is held in place against the side of the barn by two strips of heavy sheet-iron which has

strips of heavy sheet-iron which has been bent to fit around the pole.

The top rail is secured by a piece of half-inch rope which passes over a pulley located in a hole in the wall above the rack, a weight being attached to the outside end of rope, serving to always keep the rack against the wall.

When the hay is not in the rack is

When the hay is put in, the rack is drawn down, and when filled is pushed back against the wall, holding the hay in place closely and kept in place by

The grain trough placed beneath and in front of the rack serves as a the hay—the best and most nourish-ing part of the feed which would otherwise be pulled under foot and lost as food.

Unshod colts need inspection of the feet occasionally, as they are likely to grow more on one side than the other, or to develop too much toe. A very little rasping will keep the feet lev-

Value of Corn Silage.

Corn silage is no less valuable for carrying stockers and feeders through the winter months than for fattening and finishing beeves.

LIVE STOCK

Pick out a side with a good dis-

Pigs should be grown on pasture as nearly as possible.

Never raise a colt from a naturally vicious-tempered mare.

A couple of sheep in the front yard are as good as a lawn mower.

Hog cholera in Kansas is under control, at least for the present.

Cough affecting young pigs very often is due to dusty bedding.

Never save a sow for a breeder un-

often is due to dusty bedding.

Never save a sow for a breeder unless she has a large number of teats.

It is absolutely necessary that the
stallion should have plenty of exer-

Pasture and exercise develop a strong frame that responds quickly to

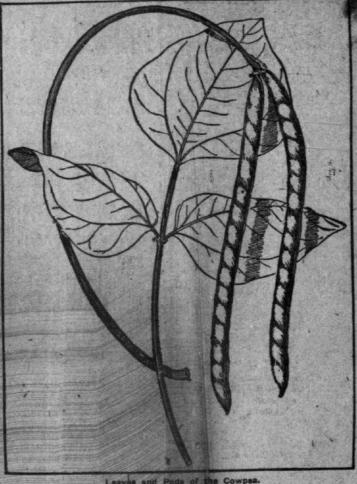
ings characteristic of the breed.

Some owners of land in the far west claim they can raise 14 sheep to the acre on alfalfa and beet pulp.

The stable that has plenty of pure air and is well flooded with sunshine is most comfortable and healthful.

A pure bred ram of the coarse wool breed crossed with Merino ewes produces a good lamb for early fattening.

EXCELLENT CROP FOR PLOWING UNDER



Leaves and Pods of the Cowpea.

The practice of green manuring, or plowing under of certain green crops especially for this purpose, is one of the oldest systems of fertilization at present in use, though in this section only one or two particular crops have been utilized for this purpose. While it has been long known that the cowpea and many other leguminous plants possessed in a most marked degree the c wacity of collecting and assimilating large quantities of the chief fertilizing constituents, and particularly, nitrogen, nothing has been definitely known as to the causes underlying their remarkable properties as nitrogen, collectors until within quite recent years. subsequent crops, is of the importance and utility to the

ents conducted at the exnt station several years since,
that a crop of pea vines,
on a sandy loam, of only modartility, contained the following
ts of phosphoric acid, potash
trogen (calculated from actual

In vines. In roots. Total
Libs. Libs. Libs. Value.
cacid. 23.05 6.90 46.95 \$2.30
88.79 18.12 101.91 1.02
115.54 7.70 122.24 20.95
llues are calculated accordur scale of fertilizer valua-

tions, and it will be seen that the valions, and it will be seen that the valions were faithfully followed, and in about a quarter of a minute the afficted one placed the half lemon on his plate, looked into the anxious faces around that contained in 1.750 pounds of cotton seed meal, though this crop was considerably above the average yield.

In addition to the advantages derived from turning under a crop which has a peculiar adaptability to securing plant food from the air, and from the soil and soil water, such a crop supplies an immense mass of organic matter, when transformed into humus, improves greatly the texture of the soil, makes it more relensive of gases and moisture and enables it to better withstand drought, while at the same time the presence of a good supply of humus aids in rendering the insoluble plant food of the soil more available.

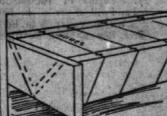
Other leguminous crops can be so greatly out of proportion to the available supplies of nitrogen in these soils, that investigators had for years sought to determine whether or not these plants possessed the power of assimilating the free nitrogen of the atmosphere. The researches and experiments of a number of German investigators, extending over a long

ment of plant food and is constantly becoming scarcer and dearer so far as its commercial forms are concerned, it will be readily seen that a system of green manuring which provides a means for the collection of this valuable element from the atmosphere and a medium through which it can be stored up for the use

KEEPS PIGS OUT OF TROUGH | POULTRY IN WARM WEATHER

Oklahoma Man Prevents Swine From Getting Into Their Feed by Using Smooth Wire.

To keep pigs out of their feed trough I take large smooth wire, fast-en at one end of trough with staples and wind round and round the trough, leaving spaces about 5 inches apart



Keeps Pigs Out of Feed.

etween wires and fastening securely ith staples to prevent slipping, rites C. B. King of Cogar, Okla., in the Missouri Valley Farmer. The same plan also works well on chicken feed boxes, as it keeps the chickens from scratching out their feed.

Shelter In Summer.

A protected tight roofed shelter should be afforded the pigs even in the summer, and sleeping quarters should be dry. Yards ought also to be kept disinfected with lime, carbolic acid or some other purifier and kept in as sanitary condition as possible. Troughs may well be thrown out of the yards and washed out thoroughly with lime water once a week.

ecautions Should Be Taken to Keep Down Mites and Disease Germs of All Kinds.

The roosts should be sprinkled once a week with kerosene oil and once a week with creoline or carbolized water to keep down with the control of the control

week with kerosene oil and once a week with creoline or carbolized water to keep down mites and disease germs of all kinds.

Paint nest boxes about every ten days or two weeks with a mixture of one gallon kerosene and one pint of creoline or carbolic acid in its crude state. Keep the yards and bouses clean. Use pienty of good whitewash. Give plenty of pure, fresh water frequently during the warm days. Use porcelain, granite or earthenware vesels and keep them clean by scalding out at least twice a week. This is a very important item and should be looked after.

A few drops of kerosene or carbolic acid in water once a week is good and helps keep off diseases. Dust the birds frequently with good insect powder. You must keep your eye on the birds through the hot weather and see that everything is kept scrupulously clean it will take but a little time each day, but don't get in the habit of attending to things today and leaving off tomorrow. You can't be successful in this way.

Cause of Chicks Dying.

The greatest cause of chicks' dying is general physical weakness. This loss of vitality may have been caused by some unknown weakness in the parent stock, improper keeping of the eggs, or faulty incubation. Weak chicks are either small or late-hatched, they possess little vigor, and though they may live for days will slowly die despite the best efforts of the poultryman. When chicks are in this condition, it is of little use to attempt doctoring or giving special care, for in most cases the results will by the same.

ORIGIN OF FAMOUS PHRASE

Bellef that Common Political Term
Sprang From a Horse Race Held
in Tennessee.

The political term "dark horse" is hought to have had its origin in the

ollowing circumstances:
In the last century there lived in In the last century there lived in Tennessee a "character" named Flynn, an elderly person who dealt in horses. Flynn generally contrived to own a speedy nag or two for racing purposes if he could arrange for "a good thing" during his peregrinations throughout the state.

The best of Flynn's flyers was a coal black stallion named Dusky Pete, almost a thoroughbred and able to go in the best of company.

One day Flynn visited a town where

One day Flynn visited a town where a race meeting was in progress. He entered Pete. The people, knowing nothing of the herse's antecedents and not being over impressed by his ap-pearance, backed the local favorite heavily against the stranger.

Just as the beasts were being sad-dled for the race, a certain Judge Mc-Minamee, who was the "oracle" of that part of the stafe, arrived on the course and was made one of the race

judges.

As he took his place on the stand he was told of the folly of the owner of the strange entry. Running his eye over the track the judge instantly recognized Pete. "Gentlemen," said McMinamee, "there's a dark horse in this

race, as you'll soon find out."

He was right. Pete, "the dark horse,"
lay back until the three-quarter pole
was reached, when he went to the
front with a rush and won the race.

DISSOLVE BONE IN THROAT of Lemon Juice at Critical Time is a Thing Worth Keeping in Mind.

Sitting at a planked shad dinner in Yonkers, a laughing guest drew a bone into his throat and he began to strangle. Some one suggested that the sufferer swallow a fragment of dry

bread.

"Oh, no," exclaimed an Ossiaing man. "Don't give him bread. It might catch the bone and it might not! Give him something that is sure to give relief." Beckoning to a waiter, be said: "Bring me a lemon, cut in two." And it was brought without delay. Taking one section, he offered it to the choking guest and told him to suck the juice and to swallow it slowly. Directions were faithfully followed, and in about a quarter of a minute the af-

The fawn is now much taller than the St. Bernard, and yet the dog still goes out with it.

Aid to the Uniovely.

"I try to be an efficient city directory," said the hotel cierk, "but balk at recommending a beauty doctor to women guests.

"That is one of the first things they want to know. Churches, theaters, even dressmakers can wait a few days, but the beauty doctor is an immediate necessity. Unfortunately, they do not get much satisfaction out of me. Any number of beauty specialists leave cards for distribution, but so many of them have been mixed up in lawsuits that I feel squeamish about delivering their cards. To satisfy my own conscience and the women at the same time I hand out a bunch of advertisements with the remark that I guess they are about all alike.

"Then they can pay their money and take their choice, and if they lose their hair and complexion, they can't come back on me for damages."

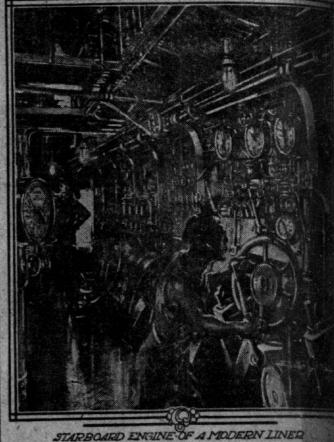
Largest Flying Fish.

The largest flying fish on record was served up for breakfast on the British warship Ardeola a short time ago. The Ardeola was homeward bound and was off the Canary Islands when a large school of flying fish was observed. They were apparently in full flight from some deep sea enemy and traveling rapidly. As the ship met and passed them several flew on board and were seized by the crew as welcome additions to the mess. One of the fish measured 19 inches; the largest flying fish ever seen before the Ardeola's catch have never exceeded 10 inches. The big one was fried for the captain's breakfast. Flying fish are very palatable and taste like trout.

The Quarrel Over the Laundry.
The family inundry had just been returned, and the usual struggle to identify their respective belongings was on. "That's my shirt!" insisted the elder brother, who worked in a printing establishment. "I can tell it by the ink spot."

"Pahaw!" exclaimed the younger brother, who worked in a lumber yard. "I suppose, in order to be mine, it would have to have silvers in it."—Judge.

Men in the Engine Room



REIGHT on a sailing ship from New York to London used to be 14 shillings a quarter of wheat; new it is just over a shilling a quarter by steamer from New York to Liverpool. Not all of the engineering which has brought about this result has been done in the drawing office and the factory. Much of it has been done by workingmen who took the raw inventions out to sea, struggled with their crudities and put the needful improvements into the minds of the designers ashore. In big ships and little the process is going on and it is a stern one still in spite of modern refinements. In the old days, when boiler pressures were no low that a steamer had to slow down to raise-enough steam to whistle with, an upholatered settee was often provided in the engine room for the use of the man on watch, so that he need not stand more than was absolutely necessary. Today it is probable that not one seagoing vessel could show such a thing. A man who cannot walk about for four hours in the temperature of a Turkish bath is not wanted.

While the ship is at sea all the entermination of the well night incompatitive means and the owners deal shim. He is supposed to him. He is supp

which has a peculiar adaptability to the amosphere. The researches and experiments of a number of German investigators, extending over a long period of years, have shown that leguninous plants are capable of taking up and assimilating the nitrogen of the atmosphere, and this property is known to depend upon the presence of bacteria or minute micro acopic forms of life, which are found in tulpercies or excressences occurring quite protectly upon the roots of thrifty and view are plants, and plants grown in a soil destitude of the peculiar to certain sperticular bacteria are found to be peculiar to certain speculiar and the proposed dependence of the well will also soon have tuber of the speculiar to certain speculiar and the proposed to have few to the speculiar to certain speculiar and the proposed to the speculiar to certain speculiar to certain speculiar to certain speculiar and the proposed

ocial influence of his envious esult is often a curious

overcome my modesty, can overcome the handle unfashionable."