breed of the past and the improved breed of to-day is beyoud comparison.

Nothing can be more penny-wise than the practice of

Nothing can be more penny-wise than the practice of many of our farmers of breeding from serub or grade boars. To the farmer who breeds ten or more sows a thoroughbred boar is cheaper at \$50 than a grade boar at nothing, even if the hogs are all to be fattened. A single dollar on which pig would make up the money, and I am confident that in many cases I have seen a difference of \$5 each, with the same care, between thoroughbre I have an I those that have been bred hap-hazarid. On hundreds of farms I had a supply a facility and have been bred hap-hazarid. today can be found stock hogs a year old that will not weigh over eighty pounds each, and that are not 10 pounds heavier than they were in December. If offered tor sale now they would not bring over five and a half cents a pound, and they have probably consumed as much grain as the breed of hogs that, at the same age, weigh 200

pounds and are worth seven cents a pound.

The man who is a refully broad in pure stock is a public benefactor, and ought to be well paid for what he offers to the public, for it is valuable. Such men should be patronzed and encouraged, for the farmer cannot do without them. In the good time coming, more attention will be paid to this matter than at present. Not only should this question be discussed in the grange, but the members should cooperate, and purchase such animals as will improve their stock.

prove their stock.

Hart raised these 2-year olds on skin milk when colless, they never cat a ton of hay, and no hay at all, for the son that he did not have the hay. All the past of some he fed them corn stalks, turness and grain. The drovers who purchased them took the whole lot with an allowance for shrinkage of 91 lbs, for their delivery in Detroit, below their weight at Milton. We have a lesson here about feeding. Hart, by use of a good bull had good took to work with, and taking into consideration that he was short of hay, fed a splendid lot of cattle, making up in attention to his stock for his wait of hay. In this he has set an example, and we are much pleased to present his report to our readers, for it shows that "blood will tell." We ask, then, can any farmer that takes his chance of the bulls met with, show anything like this record?—Boston bulls met with, show anything like this record?-Boston Cultivator.

## Treatment of Shying Horses.

Shying generally arises from timidity, but sometimes it is united with cunning, and induces the animal to assume a fear of some object for the sole purpose of finding an excuse for turning aside. The usual cause of shying is, doubtless, the presence of some of ject to which the horse has not been accustomed, and if he has defective eyes, which render him short-sighted, it will be difficult to convince him of the innocent nature of the novel object. There are eadless peculiarities in shying horses, some being dreadfully alarmed by one kind of object which to others is not at all formulable. The best plan of treat-

## Sheep Treatment in California.

The only disease of any consequence which troubles the Californian sheep-grazier is "scab." This is very troublesome at times, but is not of such a fatal character as the disease of the same name in Britain. Indeed, it is seldom or never fatal in California, and as the expense o removing is considerable where the flocks are so extensive and the appliances difficult of access, we find that in many flocks no attention is paid to the discuse whatever, but it getting their tongues over the monthpiece, the action of is allowed to run its coarse. In this case it is found that the curb-bit is rendered occasionally somewhat uncertain, the discase leaves the sheep after a time, and the animal is again restored to its former health and quality of fleece; although of course during the time the animals of the curb-bit is rendered occasionally somewhat uncertain.

In such cases recourse may be had with considerable advantage to the snaffle for a time, after which a carefully-although of course during the time the animals of the curb-bit is rendered occasionally somewhat uncertain the curb-bit is rendered occasionally somewhat the flocks no attention is paid to the discuse whatever, but it although of course during the time the animal is so affected it is almost worthless either for its mutton or wool. This carelessness, however, in regard to the disease referred to, is gradually but sur ly dying out, and it is very probable that in a few years either Government will find it necessary to legislate for its proper removal, as is at present done in New Zealand and Australia, or the graziers themselves will find it no essary for their own advantage to have the discuse properly attended to. Among the more intelligent Experimenting with Grades.

Experimenting with Grades.

S. W. Hart, of Lapeer county. Mich. has been experiment on the country, however, we find that very great attention is paid to its cure, and in such cases I have seen flocks of 30,000 sheep belonging to one person where the disease was completely stamped attention and the state of the country of menting with grades, and the following is a report of the time hand sate attention paid to its removal whenever results as given by the Mich an Former. It shows continues occurred from proximity to ranches where the disclusively that have is not a size que non with stock, and case was not attended to. The ranche from which I have

clusively that hay is not a size quarnon with stock, and that it can be successfully bred in seasons when the bay taken my observations on this subject was provided with a most complete arrangement for the cure of the disease by dipping."

These cattle were bred from fair native cows, and the bull was a thoroughbred Short-horn, so that we may commer than half breds. The cattle were sold as follows:

The arrangement for the cure of the disease by dipping."

The ingredients used for the dipping were an infusion of tobacco with common sulphur—or about 20 gallons of the former to 1 lb. of the latter. The tobacco was allowed to steep for about a fortnight or so, before being used, in a large tank, capable of containing over 10,000 gallons at a time. When the infusion was complete, the liquid was drawn off into another rafusion was set agoing in the first one. The liquid matter infusion was set agoing in the first one. The liquid matter infusion was set agoing in the first one. The liquid matter infusion was complete, the liquid was drawn off into another rafusion was set agoing in the first one. The liquid matter infusion was set agoing in the first one. The liquid matter infusion was complete, the liquid was drawn off into another rafusion was set agoing in the first one. The liquid matter infusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete, the liquid was drawn off into another rafusion was complete. The preparatory to its being used, in a large tank, capable of containing over 10,000 gallons at a time. When the infusion was complete, the liquid was drawn off into another rafus on was complete. The preparatory to its being u tank," in such quantities as was required. It was then heated to 130 dees, and mixed with surpair in the proportions already given. The dipping tank was about 15 act long, 6 feet deep, by about 33 to 4 feet broad, and was lined with lead.—Cor. North British Agriculturist.

## The Comfort of the Horse.

Doubtless much of the cruelty exercised through the bearing rein is done in sheer ignorance of its effects upon the animal's mouth. The plan, or rather torture, originating with jockeys, solely to give the head a sprightly but unnatural east, has been propagated through successive generations thoughtlesdy, until it is now regarded as one of the essentials of a horse's outfit. It is nevertheless a piece of wanton cruelty, and should be cast aside as such. Mr. Flower, of England, an eminent authority, condemns it unconditionally, and has written a series of articles on the question which are attracting universal attention. From one of these, to the English L've Stock Journal, we make on extract. He says: - The important object which make an extract. He says:—The important object which it is sought to effect by the use of the bearing-rein is beauty of the head and neck. We doubt whether the desired objects are really effected by its use. The gag bearing-rein is the successor to the simple bearing-rein, a comparatively harmless contrivance, which was much in vogue some thirty or forty years ago. That the new apparatus occasions much pain to the animal there cannot be two opinions. The action of every muscle of the head is impeded, and should a false step be taken, we should imagine it would be more difficult instead of easier, as some assert it is, for the animal to recover its feet.

Perhaps the simplest, most effective, and most humane

Let any cavalry captain in the British service take the trouble of ascertaining, which he may easily do, how many bits in the troop are half-an-meh, a full inch, or perhaps still more, too wide, he will probably then find a clue to many little annoyances he meets with during drill." The many little annoyances he meets with during drill." The curb-bit is therefore the kind of bit recommended by the best horsemen of the day. It appears to possess all the essentials of a good bit, and if properly litted to the animal's mouth will supply an easy and effective mouth-gearing. In the eases of horses that have acquired the bad habit—generally an incurable one with old animals—of

CORN AND PORK .- For the benefit of hog traders, we Corn and Poire.—For the benefit of hog traders, we give the following table, showing the quantity of corn required to produce a pound of pork, and the price of pork, which seemed to be governed by the relative price of corn: When corn costs 12 1-2 cents per bushel, pork costs 1 1-2c, per pound; corn 17c, per bushel, pork 2c, per pound; corn 17c, per bushel, pork 3c, per bushel, pork 4c, per pound; corn 50c, per bushel, pork 6c, per pound. Whether these figures are approximately correct or not, they will serve as a basis, at least for careful calculations.—Colman's Karal Horld.

HAY OR MEAL FOR COWS .- A correspondent of the London Agricultural Gazette traced the change of opinion with regard to hay in his own neighborhood: "Years with regard to hay in his own neighborhood: "Years ago the practice here was almost invariably to feed the milking cow on hay alone; then some few dairymen began to give those cows that had lately calved, two or three pounds of linsced cake per day; then some of the poor grass land on the dairy farms began to be broken up, and some mangles were grown. Now the rule is often to cut up straw and partly hay, and mix with pulped mangles, and give each cow four or five pounds cake or meal, or both."

Horse Feeding at Cirenerster.—An old student, signing himself "W.," thus relates the system of feeding of farm horses on the College Farm, Cireneester:—First, with respect to last winter, thirteen horses were receiving weekly 30 bushels of brewers' grains, 20 bushels of oats given whole, 12 bushels of crushed Indian corn, wheat chaff (or chop) as much as required. The grains and corn were mixed with chaff in a conveniently-placed bin as required. The times of feeding, 5 to 7 a.m., 12 to 1 p.m., 5 to 7.30 p.m., and they were watered at 6 a. m., 12.30 p. m., and 6 p. m. No hay or fodder other than straw is given. In summer the thirteen horses receive among them weekly, 30 bushels of grains, 20 bushels of oats, and 6 bushels of split beans, with wheat chaff (or chop) as much as they require, and also as much green oats, and business of spire beans, with wheat chair (or chop) as much as they require, and also as much green trifolium as they will cat. When on dry food they are found to consume about 5 bushels daily of the mixed corn and chop and brewers' grains.

and chop and brewers' grains.

FEED FOR SHORT-HORNS.—At a fine stock convention held recently at Vinton, Iowa, the well-known short-horn breeder and dealer, S. W. Jacobs, said the average weight of his short-horns at one year old was 1,000 pounds. He fed milk six months and grain six months, giving four quarts daily. He also said:—I treat a calf kindly, give it its mother's milk only; at four weeks old it will commence to eat dry shelled corn. I do not measure the quantity, but let it eat what it will cat clean; feed three times per day; do not let it out in the hot sun to graze; curry it sometimes; at three months old I feed some wheat, and about what will lay in my hand of linseed meal. That does not sometimes; at three months old I feed some wheat, and about what will lay in my hand of linseed meal. That does not physic, and improves the hair and appearance of the head; and also, when an animal scours, give it oil-cake. For r large bull you want a double stall; half an hour of exercise by letting him run in the yard; water as often as he wants it. We water our stock three times a day. Feed a busiel of cut hay mixed with lifteen pounds of corn meal and three records of calcake. and three pounds of oil-cake.

others is not at all formulable. The best plan of treats of the shying and to be especially careful to show more and the shying and to be especially careful to show harm, but not till then, the direct should speak encouraginary to him, and if necessary, with a severe tone, which may even be supported by the use of the whip if his only made of the horse to pass the object at the measures as will get the horse to pass the object at the measures as will get the horse to pass the object at the measures as will get the horse to pass the object at the fine that is strictly only alarming to other, and thus should be cifeted with as little volutine, as possible, always commanding an encouraging tone as soon as the purpose is gained. Nothing has so great a tank may be command among, tanorant grooms of chastising the shiper after he has possed the object of the ship alarm. If he can be personaled to go queetly up to it, and camme that this has of the mouth and the should be chastising the shiper after he has possed the object of his alarm. If he can be personaled to go queetly up to it, and camme it with his muzzle, as well as with his eyes, great from the pressure of such as soon as the purpose of chastising the shiper after he has possed the object of his alarm. If he can be personaled to go queetly up to it, and commended and the harp of stones or prices of sand are generally only alarming from delective vision, so that each of the continued and animal. Punishing this only make a high couraged horse worse, and the use of "overclacks" rarely, if ever, prove beneficial. BALKY Horses.-The Kentucky Home Journal gives the