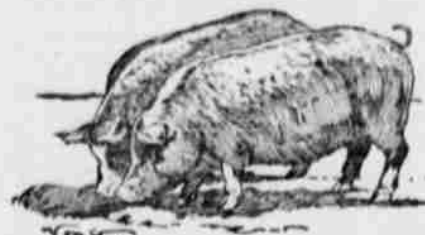


## Care of Brood Sows in Winter

For early spring pigs select a well grown sow pig, preferably eight or more months old. If you are just starting to raise porkers, says H. Truckell in Rural New Yorker. Otherwise I assume you have your best and most prolific sows on hand. See that she has at least twelve teats. She should be hearty and vigorous, as a shy feeder is a poor animal to breed from. Much is said as to mating a rather coarse sow with a finer boar in appearance. I believe in mating the best individuals and certainly would not discard a sow because she showed plenty of quality.

After mating the sow should have more nitrogenous ration than the fattening hogs. A few roots, or even silage, will add bulk and variety to the feed. Many breeders give a wisp of clover hay daily, and it is surprising how much of this a hog will eat. Keep her in good condition, but not overfat. About fourteen weeks after mating shift her to the farrowing pen, which



PAIR OF YOUNG HERKSHIRE SOWS.

should be roomy, dry and warm. This pen should be provided with a railing or fender around the sides. A 2 by 6 scantling spiked securely to fixed blocks six inches high makes a good railing and may save a good pig from being lain on. The little fellows learn to snuggle under these fenders and keep out of danger. Some breeders advocate bedding heavily, claiming the sow will lie away from the pigs and not make a nest, as when she is cramped for bedding. However, we always bed sparingly with chaff or the sweepings from the hay barn. We keep the pen dry and clean. A damp pen is responsible for many losses.

It is advisable to watch a young sow with her first litter and be on hand to render assistance if needed. If a sow has successfully raised one litter we let nature take its course. A covered stall of hot ashes will elevate the temperature of a hogpen on a bitter February or March night. After the little pigs have sucked once they seldom get chilled. Feed sparingly for the first three days, then gradually increase to the capacity of the sow if the litter is large.

**Age of Brood Sows.**  
The length of time that a brood sow may be profitably kept is determined by her capacity and power of giving a regular supply of milk for her young. Shortly, it may be said that she should be kept as long as she breeds and milks well, says American Cultivator. Continued selection and retention of the best young sows for breeding purposes is one of the most effective methods of improving a herd of pigs. The opinion held by many that pigs from the first litter of a young sow are inferior to those from subsequent litters is not well founded. Quite as good pigs can be obtained from a young sow, provided she is well grown before producing her litter, as from the same sow at a later date. The keeping of sows for the production of pigs intended for sale at an early age is a system practiced by many. Coarse boned, heavy eared, ill shaped pigs look larger at the age of eight weeks than well shaped ones. Such animals do not, however, meet the requirements of the trade and are therefore not so profitable to the breeder. Many persons who feed pigs are of the opinion that animals which are plump and nicely shaped at an early age do not grow to a good size. No more mistaken view could possibly be held.

**Hog Pointers.**  
The hog is a thrifty animal when fed on the dairy wastes with a little grain added.

Unless a sow is unusually well fed, she will hardly come in heat while suckling her pigs.

Usually the hog will thrive best that will squeal for his feed at the regular feeding times.

The thrift and condition of the mother determine to a great extent what the pig will be.

Beauty in form and appearance is not a safe indication of the value of a sow as a breeder.

The quality of a sow's pigs when she is old determines when her days of usefulness are over.

**Best Age to Fatten Cattle.**  
The central experiment station farm at Ottawa, Canada, found by comparing 1,000 pounds live weight in the case of calves, yearlings, two and three year olds that the profit for each 1,000 pounds was: Calves, \$31; yearlings, \$27; two-year-olds, \$19.10; three-year-olds, \$12.80.

When all of the cattle of all ages was purchased at 4 cents a pound and sold fat at 5 cents a pound the profit on \$1,000 invested in feeding cattle was: Calves, \$557.50; yearlings, \$284; two-year-olds, \$198.75; three-year-olds, \$177.50.

**Value of Variety in Ration.**  
No single grain ration meets the entire wants of the young growing or fattening animal. In all cases and especially with pigs a good variety gives the best results. Dust, cobs and other stuff should not be allowed to accumulate on the feeding floors. Cleanliness in the feeding places will aid materially in maintaining health.—Farmers Advocate.

## FATTENING STEERS.

Value of Alfalfa and Cornstalks as Rough Feed.

A bulletin recently issued by the Nebraska experiment station gives the details of a feeding experiment with two-year-old range steers, the results of which show very clearly that the character of roughness supplied in connection with corn is a very important factor in the economical production of beef. Six lots of steers, with ten in each lot, were fed experimentally for a period of six months.

Without entering into the details of the test with two-year-olds, as reported, the conclusions are tersely stated in the bulletin as follows:

With present prices for both corn and beef greater consideration must be given to the character and quantity of roughness fed in connection with corn to fattening cattle.

That alfalfa hay is pronouncedly superior to prairie hay for beef production and that the more rapid the extension of the area of the land devoted to the production of alfalfa, supplanting the less valuable and lower yielding native hay, the more rapid will be the production of wealth from our soil.

That native prairie hay, if for any reason it is most available for feeding purposes, should not be fed with corn alone, but rather with corn supplemented with a small quantity of some protein food, such as oilmeal, cottonseed meal or gluten meal, to give more nearly a balance of nutrients in keeping with animal requirements.

That cornstalks cut immediately after the ears ripen possess a food value which cannot consistently be ignored by the farmer and that existing land values warrant the larger utilization of this roughness by the adoption of methods of harvesting that will make such material more valuable for feeding purposes.

## Ewes in Winter.

Ewes should be handled very carefully through the winter. Have a roomy shed, well ventilated, with plenty of bedding and the doors always open until a short time before lambing, when they should be closed nights. Your shed should be warm if your ewes are to lamb in the cold months. You should have pure water and salt in the yard at all times.

## THE HORSEMAN

One peculiarity among trotting bred horses that should be noted by breeders of market animals is that of toeing out, says National Stockman. So many trotting bred horses toe out either with one or both front feet. This unfortunate condition is highly transmissible, and stallions that toe out should not be patronized. Many a really high class horse, or what would be termed a high class horse were it not for this infirmity, is made a third rate owing to the position his feet occupy in relation to his front legs. A toeing out horse cannot bend and fold his knee properly. He swings the malformed foot around as he trots, flexing the knee at a wrong angle and endangering the opposite knee. Even if inferior in other essentials, the horse that stands squarely upon both front feet has a decided advantage over the horse that toes out and will sell for more money for market use. It is true that many fast trotters and pacers toe out, but one would have a serious undertaking upon his hands were he to attempt convincing the owners of such horses that they would be even better as race animals if they stood squarely upon their front feet.

**The Idle Work Horse.**  
As to the feeding of idle work horses, it would be well if we could dispose of this subject by saying there should never be any, for this undoubtedly is the hardest treatment the work horse gets—the occasional rest when kept absolutely idle, tied to the manger, with all the fodder before him he can consume. Never allow the idle horse to remain in the stable, but see to it he has a pasture or yard to exercise in part of every day, winter and summer, of course materially cutting down the amount of grain and using more succulent food, if possible.—Cor. American Cultivator.

**The Horse's Hoofs.**  
Get a hoof trimmer and keep the horse's feet in order. If neglected, horses sometimes get lame by the hoofs growing out too long and cracking. If you invest a dollar or a little more in a trimmer you will never regret it. It is also important to keep the colt's feet straight. Look to the colt's feet when turning out in the spring and keep the toes cut short.

**Checkrein and Blinders.**  
I surely believe in humane treatment for horses, but will not give up the checkrein, writes a correspondent of Farm Progress. But I want it used right, and when used right it is a benefit to both horse and driver. If you want sore shoulders, all you have to do is to take off the checkrein.

Blinders should also be used with common sense. A horse will become quite tricky and shirk on you if worked without blinders. Yes, I have tried it, and if your horse does not you have a wonderful horse, and I would like to see him. A horse can learn tricks all right.

**Heavy Horses in Demand.**  
Heavier and yet heavier horses are called for by reason of the scarcity of farm help and the increase in the size of farm machinery.

**Currycomb and Brush.**  
The currycomb and brush are two articles which should be made daily use of in every stable. Yes, it pays, and pays for looks alone, but do not consider looks anything but the least part of the good derived from it.

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9:00 A. M. Lv. a Reno	Ar. 5:45 P. M.
11:45 A. M. Lv. Plumas	Ar. 2:45 P. M.
1:10 P. M. Lv. b Doyle	Ar. 1:10 P. M.
2:15 P. M. Ar. Amodee	Ar. 12:01 P. M.
3:00 P. M. Lv. Amodee	Ar. 11:15 A. M.
3:30 P. M. Lv. c Hot Spgs	Ar. 11:00 A. M.
7:30 P. M. Ar. d Madeline	Ar. 7:15 A. M.

1:00 P. M. Lv. Plumas	Ar. 12:30 P. M.
2:32 P. M. Lv. e Beckwith	Ar. 10:55 A. M.
4:20 P. M. Ar. f Mohawk	Ar. 9:00 A. M.

a Connections made with East and West bound trains of S. P. Co.

b Stages to and from Milford, Janesville, Buntingville.

c Stages to and from Standish and Susanville.

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## \$1,250 Reward.

The Harney County Live Stock Association, of which I am a member, pays \$1,250 reward for evidence leading to the conviction of parties stealing stock belonging to its members. In addition I offer \$200 reward for brand horse shoe bar on either or both jaws. Recorded in counties Range, Harney, Lake and Crook Counties. Horses wanted when sold. Horses sold to pass through this section will be reported in this paper. If not so reported, please write or telephone The Times Herald, Main 324, Burns, Oregon W. W. Brown, File, Ore.

**FOR SALE.**  
Fine Sheep Ranch in Modoc County. The Examiner has for sale one of the sheep ranches in Modoc county, which controls the best range in California. It consists of 560 acres all under fence. It lies along Pitt river for 2 1/2 miles. Besides other buildings there are two houses 1 1/2 miles apart. It is an ideal sheep ranch. If taken quick it will be sold for \$6000.

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## GOOD HEALTH GIVERS

IMPROVED HIGHWAYS FROM A MEDICAL POINT OF VIEW.

Michigan Physician Points Out the Benefits and Disadvantages to Man-kind of Fine and Bad Roads—Value of Trees Along Roadside.

The medical man in pioneer days was many times one of the first to blaze the path, to lay out the road or to plan the highways, and it is a fact that in modern times he is one of the first to lend his knowledge and aid to further the movement of good roads, says Dr. E. B. Smith, secretary of the Michigan College of Medicine and Surgery, in the Auto Advocate and Country Roads.

Many years ago Michigan possessed a man of sterling worth, broad intellect and keen observation for the requirements of the people of his locality and the needs of good roads and the reclaiming of many acres for new settlers and clearing up of the cause of much sickness and death. Dr. Henry Wyman in about 1844 was a member of the legislature from Lenawee county. The district was a great cotton-wood swamp. Malaria and typhoid fever prevailed every month of the year. Through his efforts in the legislative body Dr. Wyman secured appropriations for digging a ditch a considerable distance across Lenawee and well into Monroe. They say that at that time logs were felled, and over the logs was thrown the dirt from the ditch, which contained considerable clay. These logs were either fired on purpose or by chance, and the fire baked the clay into the brick substance, and today going through this country one can see the result of that baking process.

As a result of this ditching and turning-piking there are no more beautiful farms, with people enjoying good health, in



FINE ROADS MEAN GOOD HEALTH.

any other part of the United States than in Lenawee and Monroe counties. So I believe that as good roads mean good drainage—that is, drainage of the surface of the road, drainage under the road and drainage along the sides of the road—so we have good health to those living along the roads constructed after this manner.

Man is so constructed that when he walks, runs or jumps the jar is lessened and entirely spent before it reaches tissue or vital organs that are unable to withstand it. This is so on account of the arch in the foot and on account of the elasticity of that arch. This arch is a more perfect one than you builders can make. Between each joint are fluid buffers, and running from one bone to another, keeping the joints from spreading and to aid them to swing, are guy ropes that assume a lax or tense condition,