DRAFT HORSE ESSENTIALS. OIL IN ROAD WORK.

Some Points to Be Considered in Breeding Them.

The action of a draft horse is a point which is receiving more attention than it formerly did. A horse to command the very highest price must move well. He must be good at the walk and also do the trotting act fairly well. Length of stride and straightness of stride are the two most important points to be considered at the walk. Snappiness is also essential. Height of action and flashiness are attractive, but not nec essarily utility points. Winging, paddling or rolling action in front and wabbling hocks are all features which are discriminated against at all of the leading horse markets.

In breeding draft horses too much attention cannot be given to the question of weight. At all of the leading draft horse markets horseflesh sells at the rate of 25 cents per pound for each additional pound from 1,000 to 1,800. for 50 cents per pound from 1,800 to 2.000 pounds, for \$1 a pound from 2,000 to 2,200 pounds and from \$2 to \$2.50 per pound from 2,200 pounds upwards, provided, of course, that the horse is sound, well made and desirable in every other respect. Thus the heavy ones are the kind we should all aim to produce, because at best we will get plenty of the lighter weights to meet the demands for the same.

While a prod horse can never be of a bad color, still some colors, such as the nicely dappled gray or blue roan. are more in demand than others, thus commanding fancy prices.-W. J. Kennedy, Iowa Experiment Station

Silage as a Horse Feed.

I know silage is a good feed for horses, for I have tried it. I have not. however, fed to any great extent, because I did not have as much silage as I wanted for cows and horses both. I thought more of my cows than I did of my horses, so the cows had all they needed and the horses had to go short. One winter we had a brood mare that was fed silage all winter, probably twenty pounds a day. She had some hay and straw to go with it and no grain except what was in the silage. and she came out fat and with a glossy coat in the spring and had a fine, healthy colt. Horses like silage as well as cattle do after they get accustomed to it. A man in Michigan a few years ago wintered 200 horses on silage and straw exclusively, with no grain. They came through in fine shape, and the brood mares all had fine, strong colts. The Ohio experiment station tried feeding horses on silage through the winter and reported that they came through until spring in the best condition. W. C. Bradley of Hudson. Wis., says that one year during spring work he was out of hay and the only coarse fodder his horses had during all that period of hard work was silage. He says that his horses never stood work better .-- C. F. McKerrow In Spir-It of the West.

EXPERT BELIEVES IT EXCELLENT FOR

HARDENING SANDY HIGHWAYS.

Cost Is About One-third That of Macadam, or \$1,200 Per Mile, Sape Kanana Professor-Several Practical Tests Made.

"Roadmaking with oil I believe to be a commercial success, which will in time be generally adopted in improving the sandy roads of the state."

This is the opinion Professor Albert Dickens of the Kansas State Agricultural college, the man who for the past every good horseman condemns, thus year has been assigned to the work of expending the \$2,500 appropriated by the last legislature for the purpose of experimenting in oil roadmaking, gave the Topeka Journal.

> "The cost of oiling a sandy road," said Professor Dickens while the guest of F. D. Coburn, secretary of the state board of agriculture, "will be about \$1,200 a mile. Some roads will cost more than others. This is only about one-third the cost of macadam and where stone is not plentiful is much less than a third.

> "We have constructed oil roadways in four different parts of the state. Our most extensive experiment was near Garden City, where we olled a little over a mile of road. The sandy soil absorbed vast quantities of oil. Four carloads were put into the roadway with a sprinkling cart. At Hutchinson we made nearly a mile of oil road, and we built short stretches at Manhattan and Maple Hill,

> "Whether the oil in the roadways will have to be renewed remains to be seen. Of course there are certain portions of the oll which are volatile and will pass off into the air. But we use for this oiling only the reavy residuum oll left after the kerosene and gasoline have been extracted. This oll is thick and heavy and works better than thin oll

"Up at Manhattan the people who own fast horses were so well pleased with the oil road that they have oiled the race track and claim that it makes their track one of the best in the state.

"O * at Garden City, where the sand is probably as heavy as any place in the state, the oll experiments are watched with the greatest interest. The whole of western Kansas will be benefited greatly if the oil road comes into general use. There is a rich farming country tributary to Garden City, which is at times almost cut off from the town because of the heavy sand in the roads. The roads are so bad that a horse cannot haul more than ten bushels of wheat at a load.

"The farmers living near Garden .are talking of oiling the main roads regardless of the sand.

wagons cut up the road hadly after it not take to the feed for thirty or forty has been offed, while the while tired days. They were scared when one wagons and to make it more solid and went about them. I think cattle should firm. This is of cour is true to a great extent of the effect of the tires on ordl- getting them on full feed. nary roads

LIVE STOCK NOTES.

Minte That the Progressive Breeder May Find of Value.

Old sows should not be kept over unions there is a good chance of getting a good litter of pigs. They are usually good breeders until up to five or six years old.

Ground oats are undoubtedly a more economical feed for colts than whole ones, but it is more economical to feed sound sweet whole oats than most of the ground oats that are offered in the market.

In feeding young stock it is more essential to best results (hat balanced rations be fed than when feeding mature animals. In all kinds of feeding the balanced ration is the one most likely to insure the best results.

Rye is a good food for hogs if fed in moderation and not fed exclusively. says Farm Journal. It must be doled out cautiously to pregnant sows, as it is liable to be infested with ergot.

Be sure that the calves are comfortable and steadily growing every day. There is no profit in runts.

Get the calves to eating grain at as early an age as possible for greatest gains.

In Texas molasses is used as a part of the feed for steers during the last feeding period.

If young cattle are fed for early market it is essential that they be well bred-first, because they must fatten while growing, and, second, they must have the quality and conformation to make them suitable to the buyers for the best trade .- Farmers Advocate.

Wind that comes sifting through cracks is the coldest wind in all the world. Cattle know it too. Eeep it out of your barns by clinking the cracks with good tight battens.

As hogs increase in size the amount of food required for the maintenance of the body becomes greater and the gains are naturally smaller; hence a larger amount of grain and milk must be fed according to increasing weight and advancing age. The gains made in sixty days by the hogs in one of our experiments were as large as those made in seventy-seven days by the hogs in another and in some cases larger .- Professor A. M. Soule, Tennessee Experiment Station.

Dehorning Range Cattle.

I have after some sad experiences feeding what are commonly called range cattle found that the proper time to dehorn them is not when they are first turned into the feed lot, but after they have got on full feed and feel at home, as it were, in the feed lot, writes a Texas breeder in Breeder's Gazette, Chicago. I have deborned cattle in the morning when they had been on full City and the merchants in the town feed, and at feeding time in the afternoon all of them would walk up to the leading to this tributary country, so troughs and eat full rations, and very that the farmers can come into town few would show any shrinkage at all. When I dehorned at the time of turn-"We have found that narrow tired ing them into the feed lot they would



The Kind You Have Always Bought, and which has been in use for over 30 years, has borne the signature of

- and has been made under his per-Chart H. Flitcher. sonal supervision since its infancy. Allow no one to deceive you in this. All Counterfeits, Imitations and "Just-as-good" are but Experiments that trifle with and endanger the health of Infants and Children-Experience against Experiment.

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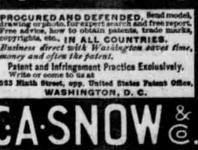
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Drying preparations simply develop dry catarrh ; they dry up the secretions, which adhere to the membrane and decompose, causing a far more serious trouble than the ordinary form of catarrh. Avoid all drying inhalants, fumes, smokes and snuffs and use that which cleanses, soothes and heals. Ely's Cream Balm is such a remedy and will cure catarrh or cold in the head and will cure catarrh or cold in the head casily and pleasantly. A trial size will be mailed for 10 cents. All druggists sell the 50c. size. Ely Brothers, 56 Warren St., N.Y. The Balm cures without pain, does not irritate or cause sneezing. It spreads itself over an irritated and angry surface, reliev-ing immediately the painful inflammation. With Ely's Cream Balm you are armed against Nasal Catarrh and Hay Fever.

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THE HORSEMAN

Give the breeding mare liberal feeding and plenty of exercise. If driven carefully she is all right; otherwise she should be turned in a yard or field every pleasant day.

Don't use cold bits in cold weather. Your horse's tongue is tender, and his mouth is formed of delicate glands and tissues.

He sure that the halters put on the colts are strong and well fitted, says Appent to Have Famous Highway Farm Journal. If broken or rubbed off it will not be forgotten, and the result will be a halter breaking horse and a nuisance.

Don't keep your horse in an overheated stable, then stand him for hours in a freezing atmosphere and wonder how he became paralyzed.

Never expect the foal to eat with the mare, but always provide a small box in the opposite corner to feed the foal In.

Accustom the colt to being handled by having a halter on and occasionally taking hold of it when feeding the mare.

The stomach of the horse is a dellcate organ. It should not be made a dumping place for dirty grain and musty hay

Sound halters teach the horses respect, and they are often insurance against wasted grain and sick animals. An old file is a good thing with which to clean out the currycomb when it gets all gummed up, as it sometimes will. A big nail will do the same work too. When the brush gets all stuck up from long usage throw it away and get a new one. You can't get much good out of it in that condition.

Give the colts a chance. Thrifty yearlings should grow one hand taller this winter, but they won't do it unless well fed. Do not give the colts ice cold water to drink. When a colt shivers a day's growth is taken out of him.

It is even more important to feed the brood mares liberally and with the best quality of hay and oats during the period of gestation than it is to feed the foal liberally during the first winter of his or her life, says the Horse Breeder. It is also very important that the brood mares as well as the youngsters should have plenty of pure water at least three times every day. Unless watered regularly and often the animals will not thrive, however liberally they are fed. Remember, too, that drinking a large quantity of ice cold water at one time has caused many a mare to abort. When a mare has been kept without water for an unusual length of time she should not be permitted to gorge herself. Better lot her have but a few swallows at a time at intervals of an hour or two "between drinks."

It is l'kely that the next legislature will be asked to continue the appropriation for oil road experiments in order that tests may be made in other partions of the state and establish fully the practicability of this method of good roads making.

CALL FOR NATIONAL ROAD.

Rebuilt by the Government.

The National Good Roads association, with headquarters in St. Louis. has sent out the following appeal to motorists, says the New York Ameri-

its work is accomplishing results in all parts of the United States. It is engaged in many things that will benefit the people. One of the great schemes it has in mind and which it has set about to accomplish is the repair and rebuilding of the great national road across Maryland, Pennsylana

"That memorable road was intended was a famous highway over which thousands traveled every week. When railroads came into existence the nait is only a skeleton of what it once

"It is proposed to rebuild it, and the National Good Roads association has undertaken to have it done by the government. The length of the road is the cost of one good battleship, and we are building lots of them. The appropriation of that sum to make this old road across five states would do as much good as the average battleship, for not one such ship in ten will ever get in a fight. Then when the old road has been put in good shape to the Mississippi river it may be that the price of about three other battleships will be set aside to build the road to the Pacific coast.

"One first class continuous highway across the continent would be a great thing. Many a traveler would spend two or three months going and coming by team, bicycle, automobile or otherwise. It would be easy for the nation to do a thing like this.

"In 1905 150,000 Americans visited Europe and for the privilege of going over the first class European roads paid over \$500,000,000."

be dehorned as soon as possible after all the Far West.

THE SHEPHERD

The successful shepherd is the on that carefully cares for the littl things in every department.

Boracic acid and water cures sheep sore eyes.

Sheep should be kept in comfortabl quarters at night during the winter. The success with the early lambs de pends upon the capacity of the mother to supply milk. To insure this the must be fed on the proper variety of food.

Experiment has shown that there i "The National Good Roads associa- little or no profit in shearing sheet tion is a powerful force for good, and, during the fattening period, says the American Sheep Breeder.

It is all right to keep the barn rea sonably warm, but ventilation mus not be forgotten.

No matter how good the breed, poo care and management will ruin it.

Never feed coarse timothy hay t sheep. Remove any hay or stubs that vania, West Virginia, Ohio and Indi- may be left in the racks before giving a fresh supply.

Every time you go to the sheep pasto be one of the highways between the ture, and I would make it a point to go east and the west before railroads were often, count the sheep and take them a known. It was built at great expense, bit of salt, says a writer in the Farm costing the federal government over Journal. I do not like to get my salt \$7,000,000, and during the early days from the ground. Sheep do not either. Put it in long troughs. Do it every day or two.

When you go to catch a sheep never tional road was neglected, and today grab it by the wool. You would not like some one to take you by the hair of the head and pull you "up standing" all of a sudden, would you? The sheep doesn't like it either.

Sometimes sheep get so fearful of dogs that they will start up and run about 700 miles, and it can be rebuilt the moment a man or other object for less than \$7,000.000. That is about comes among them. No flock of sheep that is as worried as this ever can do well. The very thought of being chased takes away from their usefulness, and sooner or later it will ruin the fold.

For lamb feeding a mixture of three parts of corn, two parts of bran and one part of oilmeal is well adapted where the principal forage is clover hay and where straw is used as a relish and not for bedding. But if compelled to use corn fodder or meadow hay as a principal forage the propor-

tion of oilmeal should be doubled. If the lambs are wintered on an exclusive ration of fodder and hay and roots to make some growth the gain will be so little, as the proportion of food used for mere existence is so great, that the gain made will not pay for the trouble, interest and risk. Don't overcrowd. Such a condition breeds disease.

Don't forget that cuiling counts as much as feeding.

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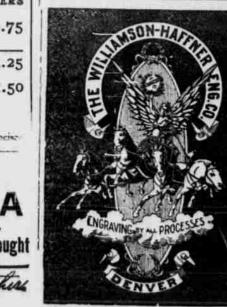
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