BSSIVE FARMI

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Remedy for Horse That Rubs Tail READER wants to know "what A will stop a horse from rubbing his tail."

It is believed that worms which attach themselves to the inside of the rectum may cause a horse to rub its tail. It is also probably true that filth in the hair and under the tail may cause the rubbing. Possibly mites and lice may also start the trouble.

If the trouble is due to pin worms in the rectum a whitish material may collect around the anus. To cause these worms to let go their hold on the lining membranes of the rectum we suggest injecting one pint raw linseed or lard oil with which has been well mixed two or three tablespoonsful of turpentine. It may be well to repeat this in three or four days.

Whatever the cause of the rubbing we suggest washing the rubbed parts and under the tail thoroughly, with tar soap and warm water. Then grease thoroughly with carbolyzed vaseline, or carbolic acid one part and lard twenty parts. In a few days wash the parts again and then apply daily a solution of one part of carbolic acid in fifty parts of water.

When the root of the tail has been rubbed, so as to irritate it or make it sore, an animal may continue to rub it after the original cause ceases to operate, and for this reason, if the horse can be tied so that he can not rub the parts it should be done, until the irritation entirely disappears.

feeds without silage. Also if dried beet pulp is a cheap feed at \$31 per ton.

With alfalfa hay and cottonseed meal, both rich protein feeds, it is necessary to use a considerable quantity of dried beet pulp to balance a ration for a cow giving 20 pounds of 4.5 per cent milk a day. This beet pulp is not a cheap feed at \$31 a ton, It supplies digestible carbohydrates at this price at about the same as corn at 90 cents a bushel, and ascorn supplies more digestible protein and fat it is a cheaper feed at 90 cents a bushel than dried beet pulp at \$31 a ton. The following shows the digestible nutrients in 100 pounds of beet pulp and corn:

	Beet. Pulp	Corn
igestible Protein Carbohydrates Fat	Lbs. 4.1 64 9	Lbs. 7.8 66.8 4.3

No one would call corn a cheap dairy feed at 85 cents to 90 cents a bushel, and it is therefore, certain dried beet pulp is not a cheap feed at \$31 a ton.

If our correspondent had silage then his feeding problem would be easier and his feeding could be done at less cost, for then the high priced beet pulp could be cut out entirely for cows giving less than 25 pounds of milk a day.

If the ration must be made from firmly, then it should be put on the alfalfa hay, cottonseed meal and land as quickly as possible after it dried beet pulp the following will is made, or gathered up and put unabout supply the required nutrients der the shed. In other words, it for one day for a cow giving 22 pounds of milk:

be worth grinding, since by grinding grain and cob together the trouble or expense of shelling the corn is saved.

Preventing Losses in Barnyard Manure

READER, after stating that he uses straw and leaves in his barnyard, writes as follows: "We put the manure (mixed with the leaves and straw) under a shed and it seems to take a heat and burn. It becomes a very light color and pulverized very much. Does this hurt the fertilizer? If it does please tell me how to prevent such."

Our reader does well to use leaves and straw that the stock, by tramping, mix with the manure, but there is some question as to whether he would lose more by leaching if left (fire-fang) under the shed. In the he loses only nitrogen by the fer- per cent of potash. mentation under the shed.

When manure goes through the fermentation described the loss of nitrogen into the air is large and serious. This heating can be prevented by keeping the manure under the shed packed as solid as possible and wet down well. Mixing ground phosphate rock or acid phosphate with it will also help to hold the nitrogen set free by the heating or fermentation. When the manure is tramped down solid by livestock under shelter and phosphates mixed with it there is practically no loss.

If the manure under the shed cannot be kept wet enough to prevent fermentation, or if stock cannot be kept on it to keep it packed down

purpose of answering the next question will assume that it contains 2.5 per cent of phosphoric acid and 1.8 per cent of potash which will certainly not be far from right. On this basis, 1,000 pounds each of this meal and 16 per cent acid phosphate would make a fertilizer of the composition or analysis shown below:

	Nitro- gen	Phos. Acid	Potash
1000 lbs. Cottonseed Meal	Lbs.	Lbs.	Lbs.
5.78-2.5-1.8_ 1000 lbs. Acid Phosphate 16 per cent phosphor-	57.6	25.0	18.0
le acid		160 0	
2000 lbs. Totals	57.6	185.0	18.0
Per Cent	2.88	9.25	.9

Using only figures representing the per cent of the different plant foods, out than he does by the fermentation the analysis of such a fertilizer would be stated thus: 2.88-9.25-9; which leaching outside he would lose more means, 2.88 per cent of nitrogen, 9.25 or less of all the plant foods, whereas per cent of phosphoric acid and 9

Lespedeza Hay Compared With Cottonseed Hulls

READER writes that his neigh-A bors are "selling lespedeza hay for \$15 a ton and buying cottonseed hulls at \$7.50 per ton. The hay has to be hauled to market and the hulls hauled back to the farm. Give us the feeding value of each for cattle."

The following shows the digestible nutrients in 100 pounds of lespedeza hay and cottonseed hulls:

•	Lespe- deza Hay	Cotton- seed . Hulls
estible Protein	Lbs. 9.1	Lbs. 0.3

Management of Grade Beef Calves

A MAN who has 40 native cows bred A to an Aberdeen-Angus bull says some of the cows will give more milk than their calves require and asks: "Will it be best to let the calves run in the pasture all the time with their mothers or let them together at night and separate them the next moraing?"

10

Tota

Standard

Unless the cows are good enough to pay to milk and handle as dairy cows and the owner is willing to go into the dairy business, we advise allowing the calves to run with the cows all the time. If the cows are treated as dairy cows then we would not let the calves run with their mothers at all, but would feed them on skimmed milk. If there are cows that give too much milk for one calf then we suggest, in case it is not desired to use these cows for dairy purposes, that young calves be bought and such cows be given two calves each. It is usually possible to buy such calves, and if the cow and the new calf be confined together for a short time and the cow tied so she cannot injure the strange calf, she will usually soon submit to it nursing

Of course, if a cow gives more milk than the calf can take, or than it ought to have, the cow should be milked or another calf placed with her, until her calf is large enough to take all the milk she furnishes. It is not often, however, that a "native" cow will give too much milk for her

Making a Dairy Ration from Alfalfa Hay, Beet Pulp and Cottonseed Meal A

	Digesti	Digestible Nutrients		
	Protein	Carbo- hy- drates	Fat	
lfalfa Hay ottonseed Meal_ eet Pulp	Lbs. 1.57 1.02	Lbs. 6.07 .64 6.49	Lbs. .14 .29	
al	2.59	13.20	.43	
d 22 lbs. Milk	2.50	13.00	50	

Feeding Value of Corncob Meal READER asks: "What is the A value of corncob meal as compared with cottonseed meal as a feed for cows, mules, etc.?"

Corncob meal has so little feeding value and what digestible nutrients it has are so different from the most important nutrient in cottonseed meal that there is no comparison in their pounds of such meal with 1,000 pounds values. Such unlike things cannot be of 16 per cent acid phosphate an- the young growing cattle. For macompared. For supplying digestible alyze?" protein a pound of cottonseed meal is worth about 75 pounds of corncob analysis which throws light on its tein, we think there may be some admeal. For supplying digestible carbo- fertilizer value is the per cent of pro- vantage in selling the hay and buyhydrates a pound of corncob meal is tein. There is 16 per cent of nitro- ing hulls, unless the cost of marketing worth about two pounds of cotton- gen in protein; that is, 16 pounds of the lespedeza and hauling the hulls to seed meal, and for supplying digesti-' nitrogen in 100 pounds of protein. the farm is considerable, especially if ble fat a pound of cottonseed meal Stating the matter in another way, to the manure made in feeding the lesis worth about 10 pounds corncob find the nitrogen in cottonseed meal pedeza is given the usual poor atmeal.

which is difficult to do, to be of much result will be the per cent of nitrogen. marketing the lespedeza and hauling feeding value, and it is doubtful if it A cottonseed meal containing 36 the hulls amounts to as much as two should be fed in any but very small, per cent of protein has 5.76 per cent or three dollars a ton, we think it quantities to horses and mules doing of nitrogen. This is a low grade meal best to feed the lespedeza hay on the hard work. For cows, which can for which the only excuse is the ad- farm, rather than sell it and buy hulls. handle such feeds with a large ding of too many hulls. That this is As we have often stated, no money content of fiber and low feeding true is supported by the high per cent value placed on the different nuvalue to much better advantage, it is of fiber, 12 per cent being nearly trients gives a satisfactory method of probably about equal to cottonseed double the fiber which cottonseed comparing feeds, nor is the method hulls in feeding value; but it is doubt- meal should contain, and carbohy- of estimating the heat units satisfacful if cattle would eat corncob meal drates; as well as by the low per tory; but allowing three cents a as well as cottonseed hulls, if fed in cent of protein. If the buyers would pound for the digestible protein, one READER wishes a balanced ra- large quantities. We do not think it reject such meal at any price the cent a pound for the digestible carbo-tion for data adulteration hydrates and two and one-fourth tion for dairy cows giving 20 will usually pay to grind corn cobs practice of excessive adulteration hydrates and two and one-fourth pounds of 4.5 per cent milk daily, alone for feeding. When ear corn is with hulis would soon stop. from alfalfa hay, beet pulp and cot- ground the cobs being of some value We have no means of knowing the a ton of lespedeza hay has a value of tonseed meat of physical and pot- \$13.63 and a ton of cottonseed hulls tonseed meal, and asks if the best and mixed in the proportions in which per cent of phosphoric acid and pot- \$13.63 and a ton of cottonseed hulls results can be all asks if the best and mixed in the proportions in which per cent of phosphoric acid and pot- \$13.63 and a ton of cottonseed hulls results can be obtained from these they naturally occur in ear corn, may ash in this particular meal but for the a value of \$7.58.

should only be kept under the shed when the land is so wet that the manure cannot be put out. The quicker it can be gotten on the land where wanted the better ; but, of course, manure should not be put on top of the soil and left there, if the land washes badly. On such land it should be worked into the soil as quickly as possible.

Protein May Be Reduced to Terms of Nitrogen by Dividing by 6.25

WHAT is the fertilizer analysis of cottonseed meal which has the following analysis?

Protein \$6.0 per cent "What would a mixture of 1,000

Carbohydrates Fats.....

There is no satisfactory way of comparing feeds like these. Even so called feeding tests are not satisfactory. If an animal were compelled to live on one of these feeds alone, then the lespedeza hay would probably show a greater superiority than shown by the prices quoted. This would certainly be true if the animal was young and required protein for growth. But when the feeds are used in combination with others, especially when cottonseed meal is used with the hulls and furnishes protein at a low cost, the results may be different.

In feeding value, the lespedeza hay is worth nearly double cottonseed hulls, especially for feeding young cattle and dairy cows, and for feeding these, we would advise keeping enough of the lespedeza hay to furnish at least half the roughage for the milk cows and practically all of it forture, dry cattle, with cottonseed meal The only statement in this feed at present prices to furnish the prowhen the protein is given, divide the tention. If, however, the manure is Corncob meal must be ground fine, per cent of protein by 6.25 and the well taken care of and the cost of cents a pound for the digestible fats,