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THE FARMER'S ADVOCATE

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JOHN WELD, MANAGER.

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LONDON. CANADA

HORSES

The Cost of Horse Power?

SECOND PRIZE ESSAY

It is rather difficult to answer the above question accurately, but I will endeavor to do so. I take it only the work-horses are meant, as a driving horse is usually more of a luxury than a necessity. The first thing to be considered is the highest market value of the horse, and at what age. The kind we keep weigh from twelve add another \$1 per year against each horse, and add another \$1 per year against each horse, and to fourteen hundred pounds, and are worth about the time they reach their highest value. pect to get, on an average, about twenty years' work from them after they reach that age, so that the sinking fund for depreciation would need to be \$11.00 per year, and the interest, at 6 per cent., would be an average of about \$7.00, as, although it would be \$13.20 the first year, it gets 66 cents less every year. The keep of the horse is rather harder to get at, as the hay is not weighed, and the horse does not always get the same amount of grain, as he is often idle. The in full work, we feed the following ration per day. which is for about five months per year: 10 four months in the year they get the following per day. About 20 pounds of hay, 6 pounds of oats, and 3 pounds of bran; and they are out gards the prices. I think if we take present prices Bran, 820 per ton; oil cake, \$37 per ton; oats, \$21 per ton, and hay, \$10.50 per ton. We usually feed mixed hay. I have added \$1.00 per ton to deliver has a. The we find that, during the five points (150 dec.) the horse is on full work

3,040	pounds hay, at \$10.50 per ton	815.90
1,520	pounds outs, at \$24.00 per ton	18.2
456	pounds bran, at \$20.00 per ton	1.00
152	pounds oil cake, at \$37.00 per ton	2.81
	ring four months in stable:	01
2,440	pounds hay, at \$10.50 per ton	12.81
732	pounds oats, at \$24.00 per ton	8.78
366	pounds bran, at \$20.00 per ton	3.66
Three	months on pasture-\$2 per month	6.00

This sum per year for food gives an average of

Total \$72.82

20 cents per day. The next item is stabling, and that is rather complicated, as we have to have a stable for the horses; we also have to have a barn for the hay, and the horses are under the hay barn, so the expense must be divided between the two. I propose to charge one half the expense to each as regards the insurance, depreciation, interest and roofing. The barn is 65 feet long, 28 feet wide, with stabling under 48 feet of it; the remainder is for the manure; it is also closed in at the end by another barn, and one side by two doors, to save manure as much as possible. There is room for seven horses in the stable, so that the expense must be divided among the seven, as we usually have that number, and never less than six. barn, with stables, is probably worth \$1,000. Interest at 3 per cent. on the horses' half, and a depreciation, totalling \$40, against the horses; also, insurance, \$1.00 (the horses' half); a new roof about every twenty years, \$70, or \$35 against the horses, which is \$1.75 each year, so we have a total of \$41.75, or \$5.96 per year each horse; renewing the stall floors about every three years, \$3.00 each stall, which is \$1.00 per year each horse; and say \$1.00 per year each horse for other repairs, such as painting doors and windows, broken lights, new pails, brushes, combs, etc., and 25 cents each horse for oil and lantern chimneys. So we have a total of \$8.21 against each horse for stabling.

As regards straw for bedding, of course that is not weighed, but I suppose we use on an average about one ton a year each horse, worth about \$5.00 per ton The following items can be placed together: Feeding, watering, cleaning out the stables, grooming and harnessing. It usually takes one man one hour and fifteen minutes in the morning, fifteen minutes at noon, and one hour at night, which is 2½ hours per day, at 15 cents per hour, is 37½c. per day, which is \$102.75 for the nine months they are in, for seven horses,

or \$14.68 each. The next thing to be considered is the harness. We keep two sets of team harness, two sets plow chains, one set heavy single harness, and one set cart harness, between five heavy horses. team harness cost about \$50 per set, with collars. The heavy single harness cost \$30, with collar the cart harness cost \$25, without collars or bridles, and the plow chains cost \$10 per set, without collars or bridles-a total of \$175. The team and heavy single harness usually lasts us about sixteen years, the remainder a little longer, but we will call it all sixteen years, as the collars do not last near that time, so we have the following expense for harness: Depreciation, \$11 per year; interest, 6 per cent., an average of \$5.58 for the sixteen years, or \$16.58 among five washing and oiling the harness, and oil for that purpose, another \$1 each horse. We wash and oil So, we have \$5.31 against each twice a year. horse for harness. The last item is the Some of the horses are scarcely ever off the farm and are very seldom shod. Our shoeing bills for the work horses would average about 12 new sets per year, at \$1.50 per set, \$18; removing the same once, each set, \$6; sharpening, about \$1.50. We must also charge for going to the shoeing smith and waiting for the work to be done. Some times we have to go on purpose, but very often we should have to go to town for something else; in that case it does not make so much difference, so, if we charge \$1.00 each time, it will not be far from the mark, which would be about \$16 per We usually get a team done at a time (but not always), so we have a total of \$41.50 for five horses, or \$8.30 for each horse. So we have following cost against the horse

the following cost against the norse:	
Depreciation and interest	18.00 72.82 8.21 5.00
Teeding and watering, cleaning stables, grooming and harnessing	14.68
Harness Shoring	8.30
Total	132.35

Of course, against this amount we have the manure, which would be worth \$14 or \$15, leav

Horse Lectures at the Winter Fair.

Synopsis of address on horse topics, given at the tutario Winter Fair, December, 1910.

TRAINING HORSES.

Dr. F. C. Greenside, V. S., of Guelph, lectur ing to a large and enthusiastic crowd, comprising many well-known horsmen, confined his remarks chiefly to the principles involved in the education of the horse. The old term "breaking" is objectionable, as such a term infers the using of harsh means. The guiding principle should to rather a leading of the colt into compliance with one's will by artifice, rather than by force, Some trainers are looking for trouble, and expect to use harsh measures, while others, who are the most successful, endeavor to accomplish their object by strategy, and only use force when absolutely necessary.

One must keep the animal out of any position to do wrong, for if he once acts in opposition, he is liable to repeat it. He should have sufficient exercise to keep the sharp edge off his spirits This exercise should be given in a quiet place, and the colt should be hitched alongside a quiet and mal to give him confidence. He should be hitched on either side alternately, so as to teach him to go straight and get accustomed to the pole on either side of him.

No colt, said Dr. Grenside, should be hitched single without the kicking strap, until he has had a few weeks' experience in harness. Do not the the colt where he can pull back, because he may become a "halter puller." A colt's nervousness can be overcome by putting on a twitch for ten minutes while saddling, and putting a man on its back and leading it around.

Dr. Grenside now touched on what he con sidered one of the most important points in the education of the colt, viz., that of "bitting the horse," or the cultivation of the mouth. organ exercises the most important influence in contributing to the control of a horse. The overdraw balances, steadies and promotes a graceful carriage, and regulates speed. Thus, the mouth must be responsive, and by this we mean that it yields readily to the pressure of the bit through the reins. The mouth responds, whether the pressure is intended to restrain, guide, steady, correct or alter the carriage of the head and neck.

In this instance the trainer is cultivating muscles and nerves to respond to pressure, and the mistake is that many trainers have no systematic plans. The bit is forced in the mouth without any knowledge of its effect. Many bad habits will result, particularly in sensitive, nervous horses, which readily show discomfort.

Dr. Grenside then gave much valuable advice regarding the breaking of the colt, particularly in the act of bitting. He emphasized the delicacy of touch of the driver, and the abomination of loose-rein driving, as they teach the horse nothing by the mouth. Kicking, forging and bad carriage are due largely to loose-rein driving. The position of the bit in the mouth is important, and should be studied and regulated according to temperament. Much harm is done to colts by bad bitting, causing them to show poor form in judging-rings and elsewhere, due to irritation. The trainer of the horse needs education, as well

TYPE OF HORSES AND MARKET VALUES Herbert Smith, Manager Horse Exchange Union Stock-yards, Toronto, followed Dr. Gren side, and spoke very fluently on "Different Types of Horses, and Their Market Values." Mr. Smith began in a very jocular mood, which brought forth considerable applause from a well-filled lecture room. He stated that he was not a breed er, but was a handler of the horse as a finished product, ready for the market. He referred to Mr. Edison's statement of some years ago, that we were working toward a horseless age, and that horses would only be found in museums. To American paper which showed that nothing could fill the place of the horse, and that horses were increasing rapidly in numbers in the United number of horses, and stated that the United States had 21,040,000, and Russia over 30,000. The number of horses increased, from 1900 to 1905, 3.025,000; from 1905 to 1910, 3,982.

Mr. Smith complimented Ontario farmers, be hexing that they were the best and most critical

horses being worth, on an average, \$150 each