

tractor must cover in the furrow and back into making the short or figure-eighting a back-furrow dead furrow, the average across the ends—distance in a straight line plows are taken out where they enter it width of the land, or 1,760 feet, or one-half land, or 2 miles of plowing the entire field. laid out into 12 lands, the total empty travel while, if the field were divided, it would be 4 miles. necessary to make the back furrow or must be added to the straight-line distances, advantage of the narrow to a certain degree; re-plow tractor, which short turning radius the making of short a great deal of time, 10 rods wide laid out in an hour's less time than in three lands. A 2-plow to make one and many trips across the trip of a given width, the time lost in idle out 50 per cent. great-plow outfit. A 4-plow to make only half as plow outfit, and so will much time.

must balance for himself in making narrow extra dead furrows and the difficulties of side on the width of the. The most popular from 100 to 200 feet. old has no irregularities, should be measured and all the lands will be or nearly so. fenced on all sides, it to leave an unplowed width clear around the and after the body of the than to have the lands on the sides. A head-around the field can repeatedly around the finished, without having awkward turns.

field is unfenced and pulled out into a road joining field for turning, able to plow up to the sides, as the body of the and, and leave a headland of the field which is headland must be plowed furrow or back furrow, and more space will the corners at the ends for turning the tractor. the headland will depend ing radius of the tractor plows, and some farmers handled outfits do not 20 feet; but any extra land will be plowed just were plowed with the pl, and plenty of room left to allow easy turn-outfit headed in exactly on entering the furrows. the headland, the less is o over the same ground ning at the ends when body of the field, and ends will be packed less lands 50 or even 100 l usually be preferable nes. With most tract- of the headlands should as great as the length of the plows attached. w once around the field the headland before body of the field. This de for lifting the plows into the ground again

to be finished up in the h no irregular unplow- the lands or at the edges, t care be taken to have the same width clear to have the distances y when starting new ve the first furrows as possible. A little extra asuring all the necessary ing plenty of stakes for y always be more than g time at the finish. will prefer to "step off"

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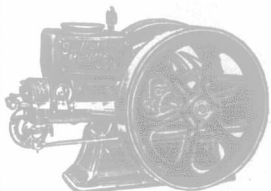
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the distances rather than use any more precise measure, and, as far as accuracy is concerned, this will usually be satisfactory; but if the tractor pulls three or more plows, cutting a total width of 3 or 3½ feet or more, some effort should be made to have each distance an exact multiple of the total width of the plow, so that the last trip across the field will exactly cut out the land or finish it to the fence. This will do away with the necessity of making a trip across the field, probably over the plowed ground, to turn over a narrow strip possibly only a few inches in width. It is usually hard to handle the tractor in finishing out such a strip, and it takes at least as much time as it would to plow one of full width.

Some recommend that an A frame of the same width as the total width of the plows be used for measuring all distances. Then whatever the total width of the land is, the last trip will exactly finish it.

A Babcock Tester—A Necessity in Every Dairy.

EDITOR "THE FARMER'S ADVOCATE":

The value of milk and cream, together with their finished products, like many other articles, depends entirely on their composition and not upon the name which is given them. My mind reverts to a conversation between two ladies who were speaking with reference to a young doctor. One said: "I consider him a model gentleman," inferring of course, that he was a standard of type from which all parties of that sex might take a copy in ambition to reach the highest aspirations of manhood; but the sarcastic reply was this: "Model, I should say—a small imitation of the real thing!" Now we frequently run across a like imitation; very often it is found in restaurant cream jugs, and it may be called cream or it may be called milk, but we have come to the definite conclusion that it is skim-milk. You are all aware of just what would happen if you undertook to add pure water to milk as it originally is; first you would be paid for this water at the same rate per pound as for milk, and secondly, when it was found out it would cost you a few hundred dollars to straighten up matters with the authorities. Besides, all your neighbors would know that the pump helped materially in bringing up the record of your herd. Nevertheless, this is practically what is taking place in dozens of communities where milk is not paid for by test. Did you ever realize that you may be selling good fat at the price of water? If the milk be used for buttermaking, the fat will be the index constituent of its value, as the fat alone is used in the manufacture of this product. Ordinarily milk differs radically in composition, even among an individual herd of cattle which may be cared for and fed identically; therefore, it is essential that the one purchasing the milk be aware of the relative amounts of the more important constituents. As in other materials, the proper way to ascertain this is by making chemical analysis, but to comprehensively analyze milk samples to secure absolutely accurate results would require an expensively equipped laboratory, an expert chemist, and finally the process would be entirely too slow for commercial purposes. Besides, it is easily seen that an effort to carry this on in the farm dairy would be suicidal. To overcome this difficulty there came into use a means known as the Babcock method. This was invented by Dr. S. M. Babcock, of the Wisconsin Experimental Station. It became known to the American public in 1890, and has been universally used since that date as a test for the fat content of milk. It is rapid, reliable, accurate, and inexpensive,



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