

possible the determination of the percentage of butter fat in milk and established a uniform standard for the exchange value of milk and cream. The loss in butter from one cow's milk in the course of a year by former methods of skimming is about forty pounds for water dilution, twenty-six pounds for shallow pan separation, and ten pounds for the deep setting system. The hand cream separator cuts the loss of fat in skim milk to a minimum. The separating device consists of a bowl moving at the rate of several thousand revolutions per minute and usually of devices inside the bowl for separating the milk into thin layers. The milk and solid impurities, being heavier, seek the outside of the bowl and the cream the inside, separate outlets being provided. Besides saving an enormous figure in butter fat, the hand separator saves nine-tenths of the cost of hauling milk to the creamery and furnishes the farmer with a vastly superior quality of skim milk for feeding purposes. The vacuum milking machine has yet to be considered universally successful. There is no question of its ability to do a thorough job of milking, but it causes extra labor in other directions. Whilst contributing to the cleanliness of milk, it has been found to have an injurious effect on the yield of some cows.

Perhaps no invention of recent years has done more for the conservation of soil fertility than the manure spreader. It was at one time considered cheaper to move the barn than to haul away the manure. Even at a late date manure was regarded as inconvenient and disposed of with the least possible effort. The spreader saves only the labor of unloading, but it scatters the manure much better than could be done by hand. The returns from a given amount spread by machine are often double those of a like amount spread by hand. A belt, either endless or returning, carries the manure back to a revolving drum, which tears and scatters it in a light or heavy layer as desired. Manure loaders, more or less successful, are now eliminating hand labor in loading. By making it easy for the farmer to save and apply this valuable by-product, manufacturers have contributed to the maintenance of high crop averages where these machines are used.

The ideal farm power plant shows the extent to which the small gasoline engine may be used to lighten farm labor. It furnishes power for pumping water, sawing wood, shelling corn, grinding feed, churning, and running the cream separator and washing machine. Connected with a dynamo it furnishes electric current for light or power.

It seems unnecessary to go further in showing the marvelous extent to which human labor has been eliminated on the farm. The laborer has been relieved of drudgery and given time to study his

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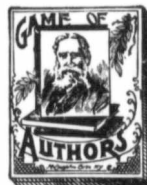
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