ure blood, nor that it must be be usually obtained for a little less of the same breed as the sire used, money. but we do insist on the use of a pure To start hog raising right, study bred boar and continuing to use one the whole question thoroughly; of the same breed started with. It provide ample feed, as much as three to start with common scrub sows by the hogs, but do not neglect the when grades may be purchased for other fourth of the ration, which so slight an increase in cost. Do not should be corn or some other conpurchase an inferior bear. Even \$50 centrated feed; buy a first-class pure is not too much to pay for a first- bred boar and arrange to give the class boar, but one of fairly good hogs regular and intelligent care quality, from 3 to 6 months old, may every day in the year.

however, bad business judgment fourths of which is to be harvested

E MUST RAISE MORE HORSES.

The Income From Farm Labor is Almost in Direct Proportion to the Number of Work Stock Used-Good Machinery Usele Without Good Horses.

It is to his interest to get the largest good mules or horses to the hand are legitimate profit from his farm; and required. In view of these facts, I to do that, he must till more acres repeat that there is no more pressing and till them better. Machinery espe- necessity on our farms than that of cially adapted to operations will do more horses and mules. twice or thrice as much work as human muscle, and do it better. But raise them. It may be that the raisthis machinery would be utterly useless without horse-power to operate try per se cannot be made profitable it, and a sufficiency of horse-power in the Cotton Belt; but there can be is the very thing in which most no question that almost any intelli-Southern farms are most conspicuously lacking.

In those States where agricultural machinery is extensively used, work of the farm almost continuousand the profits of farming corre- ly throughout their reproductive life; spondingly large, from two to five and the abundant productiveness of horses are used. The present supply our soils in the principal forage of work animals on the farms of the plants and grasses makes the raising South is not sufficient to operate ef- of colts comparatively cheap. A few fectively even the scant and crude good mares should be kept on the implements now in use; and I can plantation, the best of horses and say from personal knowledge that jacks should be used and good shelthe greatest hindrance to-day to ter and plenty of grazing the year profitable farming on half the plant- around should be provided. None of ations in some of the richest parts these things are costly; yet they conof the State is either the lack of a stitute the solution of a problem sufficient number of work animals or fraught with much importance to the poor condition of those in use. This is already a serious problem; and, with the growing general tendency towards the introduction and use of improved farming machinery, it promises to be still further intensified.

This is not an argument against farming machinery; it is an argument for more horses and mules and better ones on our farms. Let us have more machinery and the most steam turbine separator. One who efficient that money will buy; but let us have, also, more horse-power with which to run it. That horsepower pays is easily shown by a comparison of the statistics of agriculture for the various States. For instance: In Iowa, where 3.9 horses to each laborer are used, the average labor income is \$611.11; while in South Carolina, where only .5 of a horse to each laborer is used, the if one wants to be saving. It should average labor income is only \$144-.46. In Illinois, where 3.2 horses to the hand are used, the average labor income is \$425.13; while in Florida, where only .6 of a horse to the hand is used, the average labor income is the separator and one for sterilizing. only \$119.72.

cotton States and grain States; let us as follows: see if similar comparisons obtain between the cotton States themselves. Note the following table:

STATES	No. of horses or mules to each laborer	Average labor income
Oklahoma	2 2 2 m	\$458.93
Mississippi	是是是是不知识是是	168.33
Texas	2.7	305.63
North Carolina.	7	146.75
Louisiana	1.1	216.47
Alabama	.7	143.98

These figures show that the labor income from the farms of the South is very nearly preportional to the amount of horse-power utilised in or else improve it."

O MORE important problem; the operation of machinery; and they confronts the Southern farm- show further, that to make farming er than that of horse-power. reasonably profitable at least two

> The best way to get them is to ing of horses and mules as an indusgent farmer can raise his work stock cheaper than he can buy them. The mares can be used in the ordinary most of our farmers.

> > L. A. MARKHAM.

Equipment for the Dairyman.

Messrs. Editors: The equipment of the dairy farm is a very important matter. In the equipment every possible piece of labor-saving machinery should be used. The manure spreader I consider the most valuable; next comes a small boiler and has never used a steam turbine separator instead of the hand machine has no idea of the saving it is of time; and the boiler is an almost indispensable thing for properly cleansing the dairy utensils.

A room should be built some little distance from the barn for the separator boiler. This need not be expensive; 10x10 feet is large enough have cement floor and, if possible, cement plastered walls to admit washing. The boiler can be set under a shed, and to the side a standpipe running through the wall to

The equipment of this room for a But these are comparisons between dairy of twenty cows would be about

Low-pressure steam turbine separator\$100.00 Single-flue boiler Wash sink Churn and butter worker ... Butter molds 2.50

There are many little things that will be needed, but nothing expensive. FELIX WILLIAMS.

Carroll Co., Ga.

"Be content with your condition,



The one thing which has contributed most largely to dairying prosperity the world over for the past thirty years has been the DE LAVAL CREAM SEPARATOR, and favorable conditions afford more than usual opportunity for it to continue doing so during the new year of 1910.

The DE LAVAL was the first cream separator and has always led in every step of cream separator development and improvement. DE LAVAL Cream Separators are as much superior to other separators as such other separators are to setting and skimming systems. Creamerymen have long since come to use DE LAVAL separators exclusively, and year by year farm and dairy users are coming to appreciate the equal importance of separator differences in this smaller way.

There was never a better time to make the purchase of a DH LAVAL Cream Separator. The high price of dairy products helps it to save its cost twice as soon as would otherwise be the case. Hence it does this now within a few months over any setting system and within a year over any other separator in use.

DE LAVAL Cream Separators still possess many patent protected features not to be found in any other separator. They have been re-designed and re-built from top to bottom within the past two years and are thus far superior even to earlier DE LAVAL machines. They not only do better work in every way than imitating separators and are much more easily cleaned and handled but are so much better built that they last twice to ten times as long, -while they cost no more than the poorest of other separators in proportion to actual separating capacity.

No man having milk to separate, whether he now has no separator or an inferior kind of one, can make a wiser or more profitable move than to start the new year 1910 with a DE LAVAL machine, and every day of delay means just so much loss in quantity and quality of product.

It is the duty of DE LAVAL agents to PROVE this to every possible purchaser and they are glad of the opportunity to do it. Catalogue and any desired particulars may be had for the asking bong bean sone and baken ber women too.

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