

Low Problem Figured Out.

If by weighing and testing the milk of each cow at regular intervals during the year, a dairyman should discover that twelve cows of his herd produced only 113½ pounds butterfat and returned only 77 cents profit per cow per year, like the lowest one-fourth of the 554 cows tested by this experiment station, how much would it add to his annual income if he were to replace them with twelve cows producing 301 pounds of butterfat, and making 31.12 dollars per cow per year, like the highest one-fourth of the same 554 cows? The twelve poor cows would return a total profit of 12 times 77 cents, or 9.24 dollars. The twelve good cows would return a profit of twelve times 31.32 dollars, or 375.84 dollars for the year. The difference in these two profits is 366.60 dollars. This change of cows would increase the dairyman's annual profits 366.60 dollars.

Suppose the poor cows were sold to the butcher at 35 dollars per head, and the twelve good cows were bought at 70 dollars each, how much new capital would be invested in this dairy? The added profit would be what per cent. of this investment?

The twelve poor cows at 35 dollars each would bring 420 dollars. The twelve good cows at 70 dollars each would cost 840 dollars. It would be necessary to double the money received for the poor cows; that is, to put in 420 dollars of new capital, to pay for the twelve cows bought. The annual increase of profit, 366.60 dollars, is over 87 per cent. of the new capital. Isn't an investment returning 87 per cent. annual interest good enough to warrant such an exchange of cows?

NOTES.

Ten minutes cleaning up the farm machinery and oiling it will save a week's wear.

We are using about three times as much timber as our forests grow annually. What are we going to do about it?

The other day I saw a wagon in actual use that was built forty-five years ago. Frequent painting and good care did it.

Don't fret and worry about the cloud over there; you will not get wet until it rains, and one umbrella will do more good than much worrying.

Too much breakfast makes some people stupid and quarrelsome all day. Better a light breakfast, full dinner, with an hour's rest, and a light supper. Then you feel better.

How we dispise what we call a bad temper in a horse or cow. Now, what must these creatures think of us, when we flourish a whip or stick and shout until we can be heard in the next township?

Look after the pigs carefully, and see that they get a good start, for there is money in them.

Get them out on the ground as soon as possible.

Be sure that they have a warm shelter and a clean, dry bed, or have access to the pig-house.

Don't allow them to get chilled—but it is essential that they have exercise.

The Calendar for June.

June weather seems to be a regular tonic which puts vim in the poultry man.

Everything seems to vie with the weather, and this is especially true of the young chicks that are so full of life.

The matter of shade for both old and young stock should now be looked into, that the fowls may find a cool spot later on in the season.

Do not overfeed the growing chicks, or they may become stunted.

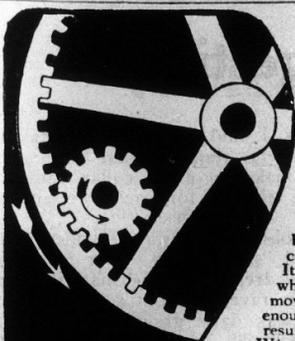
Look out for hidden nests. This seems to be the time when the hens delight to go to some hidden nook to lay.

The price of table eggs is on the decline. Why not turn them into chicks?

The market for broilers is good. The weights should be from one and a quarter to two pounds each.

The Hebrew holidays make great demand for live poultry this month.

No "Flying Start" Needed with FROST & WOOD No. 8



Why, think you, do you have to back up some Mowers a few feet and get a "flying start" before the knives will cut? It is because the gear wheels on external gear mowers do not mesh fully enough and lost motion results. When selecting a mower, see if the small gear wheel is inside the large (the internal gear, note illustration) or outside of it (the external gear.) If it is the external gear you'll find only one cog in mesh. To start this kind of a machine in heavy hay without first "getting up speed" is impossible. There is so much "slack" to be

taken up in the gears between the Main Drive Wheels and the Pitman, that the horses have to travel quite a distance before the knives commence cutting.

Now, look at our top illustration (better still, see our No. 8 Mower), and what do you find? Why, that two cogs are always in full mesh and at least one other in touch. You'll readily understand by this that the Internal Gear is just about three times as fully in mesh as the External. The gears mesh so completely that they simply must turn smoothly and precisely together, with never a slip. You can take our No. 8 into the heaviest part of your hay field and the knives will commence cutting the instant the horses step up.

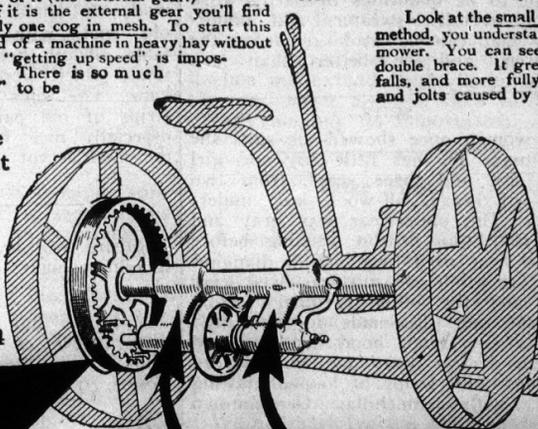
Furthermore, in the external arrangement, the wheels turn away from each other, out of harmony, and the cogs wear down.

By the internal method (see top illustration) the wheels move in the same direction, in harmony, which reduces friction (wear) to the minimum. The result is a smooth and easy-running machine—the pride of the owner.

Look at the small arrows pointing to our double brace. The other method, you understand, is to have but one brace at this part of the mower. You can see for yourself how much wiser it is to have the double brace. It greatly strengthens the machine where a big strain falls, and more fully protects the working parts against the jars and jolts caused by driving over rough ground.

Then, too, the No. 8, thanks to the use of generous sized Roller Bearings, delights the horses by running so "easy," instead of making them work so "hard," as some mowers do.

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