

protein content than oats grown alone.

The yield of the mixed oats and peas, when cut for hay, was considerably greater than the yield of oats alone.

The increased value of a non-legume, due to its greater nitrogen content when grown with a legume, is of some economic importance. A method for increasing the protein content of certain forage crops by growing them with legumes is thus suggested.

The increased supply of available nitrogen, which these results indicate to be due to the presence of the legume, must have a very important influence on the yield of the non-legume on soils where nitrogen is the limiting factor in the growth of the crop.

Soil on which alfalfa had grown for five years contained more nitrates than did the soil which had grown the timothy for the same length of time. Sections of these same plots kept bare of vegetation for the summer gave similar results.

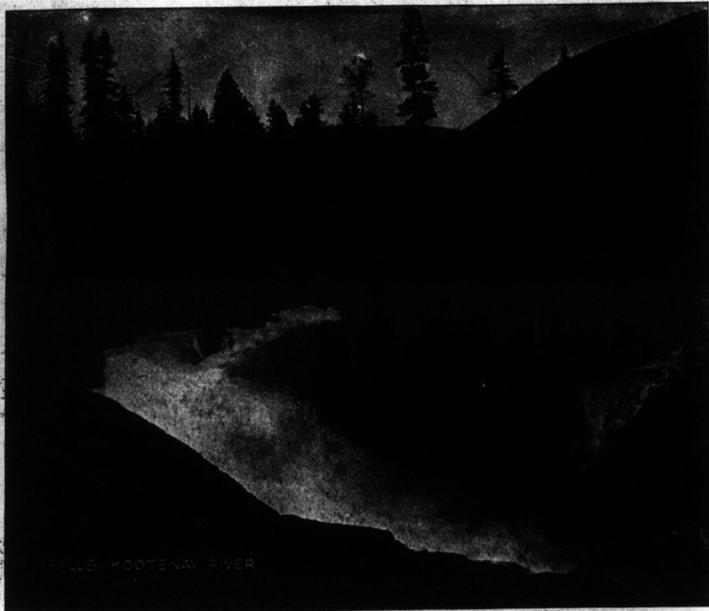
The rate of nitrification of ammonium sulphate was greater in alfalfa soil than in timothy soil, thus indicating an influence of the plant on the conditions favoring nitrification. The higher protein content of non-legumes growing alone is probably due to the more active nitrification caused by the presence of the legume.

The nutritive power of a soil which grew alfalfa for five years, and which was then kept bare of vegetation for a summer was greater than that of adjacent plots on which timothy had been

earth." Many of us have a way of envying the other fellow. This is wrong. Some of us are constantly trying to get a living with the least possible exertion, considering work and strenuous effort disagreeable. Wrong again.

It is only through proper exercise—which is work—that strength of body can be developed. It is only through thought and study that strength of mind can be attained. Inactivity never produced an intellectual giant; neither did it ever produce a strong man physically. If you have neither developed your body nor your mind, what do you amount to in this world? So long as everybody works—even father—the world will advance, but when a large proportion of us cease to be industrious retrogression sets in. Rome reached the stage when the idle class became too large for the slaves to feed and care for, and Rome died. The Manchus, in China, who through their idleness and inactivity have become feeble and worthless, will no doubt soon cease to be the ruling class in that country. It is said that they have purposely kept the common people in ignorance so that they might more easily exploit them. This, no doubt, is true. It is equally true, also, that their inactivity during the three centuries they have ruled the Chinese Empire has made them physical, mental, and moral weaklings with no ambition and no desire for the better and higher things of life.

It is an inexorable law of Nature



grown for the same length of time, and which was likewise kept bare for a summer. This indicates a benefit arising from the influence of the legume on the rate at which nitrification goes on in the soil even after the crop has been removed.

Alfalfa grown on soil in need of lime contained a higher percentage of protein when lime was added to the soil than when none was added. The weed, *Erigeron annuus*, growing with the alfalfa, possessed a higher protein content when grown on the limed soil. Ammonium sulphate, when added to the limed and to the unlimed soil, nitrified more rapidly in the former.

The greater protein content of a non-legume when grown with a legume on a soil containing sufficient lime as compared with one deficient in lime is apparently due to the more abundant formation of nitrates under these conditions.

### The Blessing of Work.

One often hears men say that so and so works too hard; that he is just slaving his life away. "What does Mr. Doe want to work for? He has enough to keep himself and family. Why doesn't he take it easy?" These are common expressions. So are the following: "If I could just have as easy a time as Mr. Smith, I would be the happiest man on

that all creatures in order to grow and develop must work, and he who thinks that he can be happier idle than busy is on the wrong track. Work for work's sake. Work of all kinds is broadening, inspiring. You need not "work like a horse." In fact, you shouldn't do that. You should work intelligently. Give your brain a chance to do something, too. An overworked body never houses an active brain, and to-day brain is as valuable as brawn—often much more so. When you feed your cattle think of what the feeding-stuffs contain and how their nutriment build up flesh, fat, bone, hair, and hoofs in the animal. When following or riding the plow think of the mysteries of the soil—the bacteria that work within it, and the chemical changes that take place in the soil itself, making food ready for the plants it is to nourish. While you milk the cow, think of her wonderful machinery for converting grain and roughage into milk and cream.

As we go about our daily tasks let us reflect on the knowledge we have acquired through years of experience, the character we have built up, and of the broadening influences toil and properly directed effort have brought. Such and thousands of other similar thoughts are pleasant; they give us renewed inspiration, put us in harmony with and make us feel that we are an essential part of the world in which we

## Standard Cream Separators IN WESTERN CANADA



The Renfrew Machinery Co., Ltd., are pleased to announce the opening of a Sales office in Winnipeg, Man.

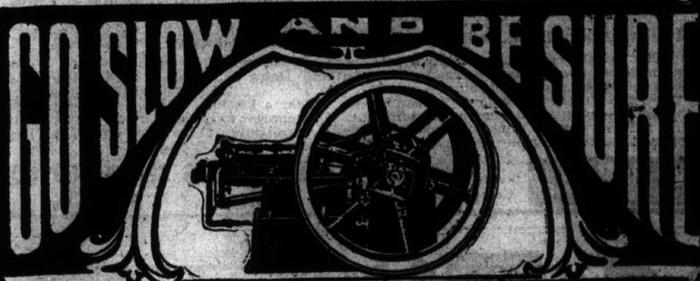
One Car Load of the famous "STANDARD" Cream Separators was delivered there in January and other cars are following for points farther West.

Farmers who are interested and agents in the West who wish to secure the agency for this machine are requested to write quickly to the Renfrew Machinery Co., Ltd., Enderton Block, Winnipeg, Man.

Catalogues and full particulars gladly mailed immediately upon request.

The Standard is the nearest approach to Cream Separator Perfection ever accomplished, not only in skimming but in every way. It is constructed on approved mechanical principles and materials of the highest standard only are used. Its cost is very little higher than ordinary machines and its productiveness is 25% to 40% greater than the old method of skimming and 10% to 25% over all other separators.

**Renfrew Machinery Co.**  
Limited  
Enderton Block, Winnipeg



It's wise to decide that you need an engine. But don't spoil your good intentions by buying a cheap one. Don't be blinded by a low price, or by wild claims. Go slow and be sure. Buy an engine that has proved its worth, from a concern that has proved its integrity. You can't afford to make a mistake—it's much costlier than the price of an engine.

## I H C Gasoline Engines

are in use on thousands of farms throughout the country, running the many farm machines, such as the cream separator, churn, feed grinder, pump, fanning mill, thresher, washing machine, electric light plant, etc. They guarantee you reliable power for every requirement at a surprisingly small cost.

I H C gasoline engines are marvels of simplicity, strength, economy, reliability, and durability. They run steadily and smoothly, year in and year out. They make and save money every time they are used, and if, by accident, you should need repairs, you can get them promptly with little trouble or delay from the I H C dealer in your locality.

Don't you think it would pay you to investigate an I H C engine before you buy any? They are made in so many sizes and styles that you can select just the right size and style for your work: Vertical type—

- 2, 3, 25, and 35-H. P.; horizontal—1 to 50-H. P.; semi-portable—1 to 8-H. P.; portable—1 to 25-H. P.; traction—12 to 45-H. P.; sawing, pumping, spraying, grinding outfits, etc. Built to operate on gas, gasoline, kerosene, distillate, or alcohol—air-cooled or water-cooled. Ask the I H C local dealer for catalogue and all information, or, if you prefer, write nearest branch house.

CANADIAN BRANCHES: International Harvester Company of America at Brandon, Calgary, Edmonton, Hamilton, Lethbridge, London, Montreal, North Battleford, Ottawa, Regina, Saskatoon, St. John, Weyburn, Winnipeg, Yorkton.

INTERNATIONAL HARVESTER COMPANY OF AMERICA  
CHICAGO (Incorporated) USA



### I H C Service Bureau

The purpose of this Bureau is to furnish farmers with information on better farming. If you have any worthy question concerning soils, crops, pests, fertilizers, etc., write to the I H C Service Bureau and learn what our experts and others have found out concerning these subjects.

## Why Salves Can't Cure Eczema

Since the old-fashioned theory of curing eczema through the blood has been given up by scientists, many different salves have been tried for skin diseases. But it has been found that these salves only clog the pores and cannot penetrate to the inner skin below the epidermis, where the eczema germs are lodged.

This—the quality of penetrating—probably explains the tremendous success of the well-known liquid eczema remedy, oil of wintergreen, thymol, glycerine, etc. as compounded in D.D.D. Prescription.

Other remedies for skin troubles have been sold but none that can be recommended as highly as this. D.D.D. stops the itch at once.

Ask any druggist who is posted, and he will tell you that D.D.D. Prescription is just a mild, harmless compound, externally not internally used, and safe even for the tenderest skin. So if it can't harm you and may cure at once, will any sufferer fail to try the remedy to-day.

Ask your druggist, or send for a free trial bottle to the D.D.D. Laboratories Dept. M., 49 Colborne Street, Toronto.