

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

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