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NEW CARLISLE NOTES

On Tuesday morning at about 3 a.m. there passed away another of the old land marks in the person of Mr. W. J. Flowers at the age of sixty-five years. Deceased has been suffering for the past eight months and bore his illness very patiently.

Mr. Flowers was a very respected man and was always ready to help both with time and money for every good cause, especially in the cause of temperance, which was very near his heart. Many will feel they have lost a good kind friend and neighbor.

He leaves to mourn his loss, one son, W. A. Flowers and one daughter, Mrs. Arthur Horie, the latter whose home is in Saskatchewan came a few months ago to wait on her father. Much sympathy is expressed for the

brother and sister.

His wife predeceased him about two years ago.

The funeral was conducted by the Rev. Mr. Buckland at the house and Anglican Church where a very appropriate address was given making special mention of deceased as to his character and citizenship.

Mr. Flowers has been a member of the I.O.G.T., for about forty years.

AVOID COUGHS and COUGHERS!
SHILOH
SO SOBER-TOP COUGHS
HALF THIS FOR CHILDREN

COMPARATIVE TESTS BETWEEN LIMESTONE AND GROUND STONE

In agriculture as well as in religion, and it may be added that this is in harmony with all agricultural experience and experiment; namely, that every man that sows a seed, sows the hope that is in it; and attention is called to the following reasons for the hope of Southern agriculture in ground limestone.

The Maryland investigations. One of the most important investigations on record to determine the value of lime and the comparative value of caustic lime and natural lime (lime carbonate) is that conducted in the Southern State by the Maryland Agricultural Experiment Station. In these experiments 2500 pounds per acre of lime carbonate were applied in the form of marl and also in ground limestone, and equivalent amounts of caustic lime from two sources. During the eleven years of this experiment, an average of all tests, the increase produced was as follows: Of corn, 31 bushels for caustic lime and 49 bushels for lime carbonate; of wheat, 1 bushel for caustic lime and 11 bushels for the carbonate; and of hay, 86 tons for caustic lime and 153 tons for lime carbonate. In commenting upon these investigations Director Patterson of the Maryland Experimental Station says:

"It will be noted that the carbonate of lime gives decidedly better results than the caustic lime."

The Pennsylvania investigations. The most extended investigation on record relating to the use of ground limestone and caustic lime in comparative tests has been conducted by the Pennsylvania Experiment Station. Four plots of land were treated with two tons per acre of burned lime every four years (the lime being broadcasted, or slacked with water, before being spread on the fields), and four equivalent amounts of ground limestone (other plots received two tons of limestone every two years). A four-year rotation was practiced, consisting of corn, oats, wheat, and clover and timothy, four different fields or series of plots being used so that each crop might be represented every year.

After twenty years' results had been secured, the Pennsylvania Experiment Station reports data showing that the land treated with ground limestone had produced per acre, during the twenty years, 99 bushels more corn, 116 bushels more oats, 13 bushels more wheat and 5½ tons more hay, than the land treated with caustic lime.

Moreover, after these investigations had been in progress for sixteen years soil analysis showed that the caustic lime had destroyed 4½ tons of humus and dissipated 375 pounds of nitrogen per acre as compared with the ground limestone. This means that every ton of caustic lime used had destroyed the equivalent of 4½ tons of humus, manure, and dissipated soil nitrogen that would cost about \$7.00 to replace in commercial form.

In discussing these investigations, Doctor Frear, of the Pennsylvania Agricultural Experiment Station, writes as follows:

"In each case the yields with the carbonate of lime (ground limestone) showed superiority under the conditions of this experiment over those following an equivalent application of caustic lime."

The Tennessee investigation. In these Pennsylvania experiments heavier applications were made than are necessary or advisable, and we may ask the question: If two tons of caustic lime on one field were as good as 11400 worth of nitrogenous organic matter, how much would one ton destroy? This question is answered by the Tennessee Experiment Station. Experiments were conducted with the growing of wheat, followed the same season by cowpeas (used as green manure) on twelve different plots of land, and on four other plots the cowpeas were removed.

One ton per acre of burned lime was applied to one-half of every plot. As a general average of the sixteen plots the total increase from the caustic lime amounted to 17 bushels of wheat during the next five years; and as a general average of all plots the loss of nitrogen from liming amounted to 21½ pounds per acre; and of this loss the Tennessee Station states that at least 65 pounds were wasted.

By computation it will be found that for each five years 117 pounds of soil nitrogen were worse than wasted by the use of two tons of caustic lime in Pennsylvania; for the cowpeas were even lower than where ground limestone was used. Thus one ton of caustic lime per acre does more than half as much damage as two tons.

The Strain of Overwork

Your work is heavy, and sore, tired muscles are a common complaint. Each time your back aches you blame it on your work, and just there the danger lies—for that pain is a herald, may not be from strain, as you suppose, but the forerunner of kidney or bladder trouble.

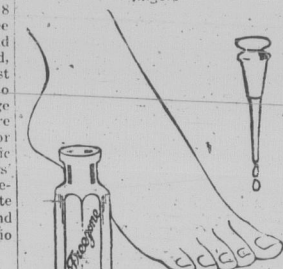
For your own interest, it is best to be particular and sure, as kidney troubles inevitably pull you down and destroy your earning power.

Take note of these symptoms. Do you get dizzy and have repeated headaches, painful urination, back and joint aches, or feel uneasy and nervous? If so, it is your kidneys that are at fault. They are not working and are full of poisons.

No person can long prosper who is thus afflicted. The kidneys are the great energy they use in the body to maintain the blood in circulation, as the lungs are the great filter out with their action in filtering the impurities from the blood. If the kidneys are not properly functioning, the blood is impure, and the body is full of poisons. The kidneys are the great energy they use in the body to maintain the blood in circulation, as the lungs are the great filter out with their action in filtering the impurities from the blood. If the kidneys are not properly functioning, the blood is impure, and the body is full of poisons.

LIFT OFF CORNS!

Apply few drops then lift sore, touchy corns off with fingers.



Doesn't hurt a bit! Drop a little Frezzone on an aching corn, instantly that corn stops hurting, then you lift it right out. Yes, magic! A tiny bottle of Frezzone costs but a few cents at any drug store, but is sufficient to remove every hard corn, soft corn, or corn between the toes, and the calluses, without soreness or irritation. Frezzone is the sensational discovery of a Cincinnati genius. It is wonderful.

Initial heavy application was made. Improvement in quality of crops also occurs, especially in the hay crop. In permanent systems of soil improvement, the first marked benefit of ground limestone is usually upon the legume crops, especially upon the biennial and perennial legumes (clovers and alfalfa), and these in turn make possible large additions to the soil of nitrogen and humus-making material by plowing under crop residues or farm manure. As an average of the third and fourth years in these Illinois experiments, limestone increased the legume crops by 113 tons per acre.

Authoritative Opinions on Lime

(By Hall of Rothamsted.) The eminent English authority, Professor A. D. Hall, for many years Director of the Rothamsted Experiment Station, makes the following statement in his work on "Fertilizers and Manure":

"The question of whether the use of farming on a given soil can be made profitable is an analysis of the soil, and contains more than 100,000 of calories of energy, as compared with the energy of a single grain of lime, which is only 10,000 calories."

By Thomas of Ohio. Professor Thomas of Ohio, a member of a most reliable team of chemists, has made the following statement: "The Director of the State Agricultural Experiment Station of Ohio, and chairman of the highest authorities on soil fertility, writes as follows:

"When the land begins to need lime, it is a waste of time, energy, and money to continue to cultivate it until this need is supplied, for the economic use of every other fertilizing material, including manure, depends upon the lime supply."

By Wheeler, of the American Agricultural Chemical Company.

Doctor H. J. Wheeler, a prominent investigator and authority on the subject of lime, for many years the Director of the Rhode Island Agricultural Experiment Station, now the agricultural chemical expert of the American Agricultural Chemical Company, writes as follows in his 1913 publication on "Manure and Fertilizers," under the caption, "Liming the Most Basic Treatment":

"Whether, therefore, a soil is strictly acid or is sufficiently lacking in bases to require their addition, even if for other reasons than for the neutralizing of acidity, liming is suggested as a suitable remedy. In fact, no other basic treatment, excepting possibly in some cases with magnesia, is either so economical, so lasting, or is followed by such general good results, as liming."

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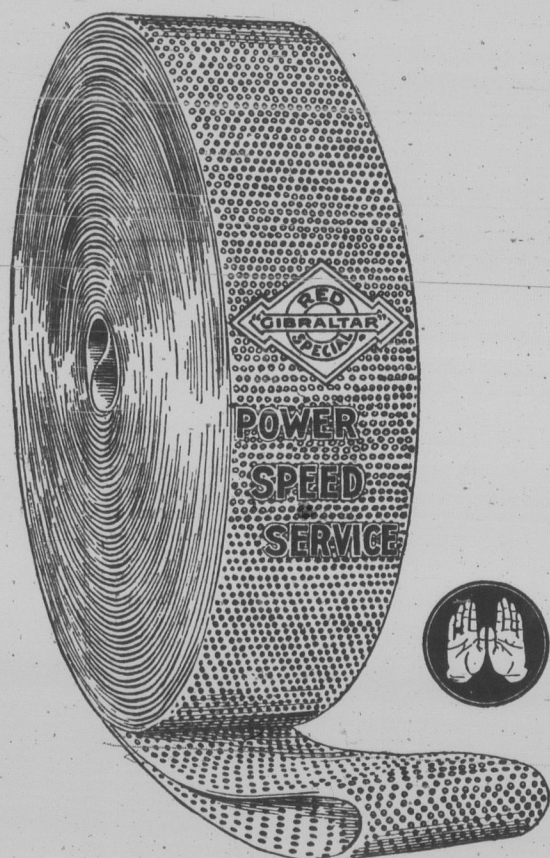
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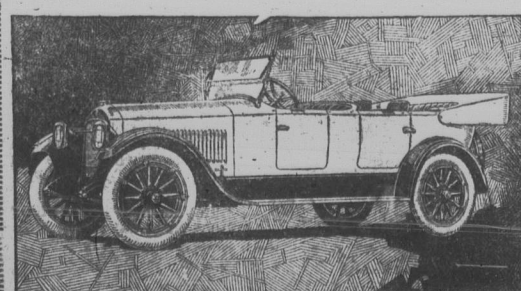
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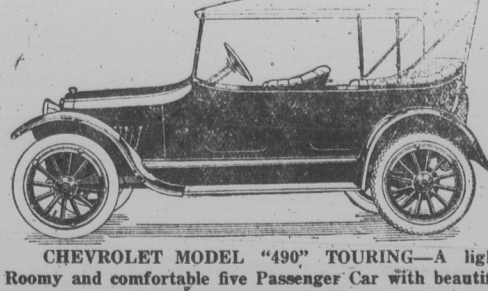
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