

MANY SOILS NEED LIME

CHEMISTRY DEPT. AT O. A. C. HAS MADE SPECIAL STUDY

Is Your Soil Acid or Sour? If No Lime Will Help—Anyhow the Subject Is Worth Your Study.

(Contributed by Ontario Department of Agriculture, Toronto.)

What is soil acidity?
When we speak of a substance being acid we think of it having a sour taste, something that will put our teeth on edge, like lemon juice or vinegar. This is acidity. But in soil there are many other acids, some of which are so much stronger than the ordinary ones that they cause the soil to become acid, or to become sour.

So often we hear the expression "sour" in speaking of soils. It is generally used to describe a soil which is poorly drained, more or less waterlogged and in poor physical condition. It may be acid or it may not, and therefore the term is misleading. There is only one term we can use to describe a soil which is acid, and that is "acid soil." A soil behaves under chemical investigation in a certain way if it is acid. So we will drop the term "sour" when speaking of soils.

How soils become acid.
The acidity of soils is, therefore, due to acid salts, those that have an acid action when in solution, or to free acids. These are formed in many ways. One of the most common is as a result of decomposition of organic matter, or from changes which occur gradually, due to leaching or washing away of bases, or from the action of acids which are already present in the soil.

Decaying Organic Matter.
Acidity due to decaying organic matter is largely found in peaty soils, which are not affected by washings from surrounding high land. We find this condition of affairs in Northern Ontario muskegs, where the substances which normally contain lime are buried deeply under a soil composed entirely of decayed plant material.

High Lands and Acidity.
High lands tend to become acid. This is due to their high position, and the fact that they are not washed by surface water. As a result, the lime which is normally present in the soil is washed away, and the soil becomes acid.

It is a well-known fact that the soil is a mixture of various particles, including sand, silt, and clay. The relative proportions of these particles determine the soil's texture, which in turn affects its ability to retain water and nutrients. Acid soils are particularly common in high lands and in areas where the soil is poorly drained.

Another thing in his favor is that he is a wanderer. He will have a successful time fishing in a certain lake in the evening, and the morning will find him fifteen or twenty miles away.

THE RICE TRICK.
Ordeal is Not Infallible, Says William Hickey.

India conjuring is always an intriguing subject. In the fourth volume of "Memoirs of William Hickey," the author mentions an example which seems little known.

In the case of Chaund, the latter was so frightened by the mere threat of sending for the conjurer that he confessed without waiting for the ordeal.

Wives Who Choose Again.
In a district of Gujarat, in the Bombay Presidency, there is a custom that permits women who are dissatisfied with their husbands to discard them on payment of compensation, should they have the opportunity of marrying again to better advantage.

Report of S. S. No. 10, Esquimaux.
Sr. IV—Bobby Fintott, Mary MacArthur, G. W. Robert, James MacArthur, J. H. Austin, Dennis, Mary Mills, Reginald Whittell, Stanley Joe, Arthur Dunn, Lawrence, John, Angelo, Thomas.

Canadian Apple Expects.
In the Imperial apple shows in England, during the years 1922 to 1925, Canadian apples won 81 first places, 72 seconds, 21 thirds, and 144 prizes.

The Church of All Hallows, Barking, in the Tower, Eng., that is its official destination, contains the following notice which confronts the eyes of the visitor as he enters the door: "Every one who enters this church is not content; please watch your handbags and pocketbooks." Another notice contains this warning: "If you can't keep quiet, keep out."

WITCHCRAFT IN CANADA

MEDICINE MAN CONJURES MAGIC FROM HIS "BAD BOX."

Strange Rites Are Secretly Performed by Bella-Coola Indians of British Columbia—Boast of Old Judas That He Killed Seven.
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When Lord Russell of Killowen was a practising barrister, and as Charles Russell took part in many Old Bailey battles, he exercised a pretty wit.

Stories such as this are found on nearly every page of "The Bench and the Dock," a book by Charles Kingston, the famous author and student of crime.

Excuses made by prisoners are generally funny. An important instance was recently admonished by an Old Bailey judge, who rather spoilt an impressive lecture by winding up with the question, in a plaintive voice: "Why all you marry so many women?"

It is difficult to believe that so many stories are made in court.

Here is another example of witty repartee. "I have never been in jail before," mumbled a "hard-boiled" criminal, who was being taken to the workhouse.

A LUCKY ACCIDENT.
Hundredth Anniversary of Introduction of Stearline Candles.

France recently celebrated the hundredth anniversary of the introduction of the stearine candle.

In 1825 the famous French chemist, Michel Eugene Chevreul, took out patents for the hard-wax candles.

Chevreul, whose investigation of fats revolutionized the soap industry, started a great industry in glycerine and improved the composition of paints and varnishes, was led to invent up his principal study by a lucky accident.

When he was seventeen he was appointed assistant in Vanquelin's laboratory. One day a jar of greases arrived, and Chevreul was told to analyze its contents. For some reason he omitted to do so, and the jar remained untouched and forgotten on a shelf for a whole year.

Mexican Plague-Spot

For some years Tia Juana has been regarded by millions of people as the most notorious moral plague spot on the continent.

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When the witch of Endor practiced her dark magic was in the dawn of human history; but to-day the belief in witchcraft and in sympathetic magic is not totally lost on the North American continent.

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THE CLEAN WAY WALES
CLEANER & DY

Champion
PUBLISHED 85 DAY MORNING
Office of Publication, MILTON ON KAW
Subscription—\$2.50 a year
No paper will be sent without prepayment in advance
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SAVE THE BABY CHICK
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The tablets stop sick headache, relieve bilious attacks, tone and regulate the eliminatory organs, make you feel fine.

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BUILDER and CO.
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