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D 35

Ground Limestone For The Soils

"A limestone country is a rich lime. If this is exposed to the air
country." This is a proverb and it gradually absorbs carbon dioxide,
trium much older than American agriculture. But every soil can be
made a limestone soil, simply by liberal applications of pulverized lime-
stone. The initial application of two
tons per acre of ground limestone, with
subsequent applications of pulverized
limestone is the first great economic
step to be taken in that positive soil
enrichment which is needed to trade
the average acre-yield of the land now
under cultivation and to restore to
profitable agricultural use the vast
areas of tillable land now lying neg-
lected or agriculturally abandoned in
most Southern States.

In the northern part of the South-
land, especially in the Piedmont and
intermountain regions, some soils are
found for whose permanent improve-
ment ground limestone is all the far-
mer needs to buy, although as a gen-
eral rule phosphates must also be ap-
plied; and in many cases, especially on
the more sandy soils of the Coastal
Plain, potash salts must likewise be
added. In a few places soils have been
found which, though deficient in
potassium (the important plant-food
element contained in potash salts), are
naturally rich in phosphates (com-
pounds containing the element phos-
phorus), and thus require the purchase
of only limestone and potash salts.

Southern farm soils are almost in-
variably sour, or acid, in other
words, they contain essentially less
than no limestone, for moderate ap-
plications of limestone will be destroy-
ed by the soil acidity. Thus one may
apply one ton of ground limestone per
acre to certain land and still have no
limestone in the soil, or a four-ton
application may leave only three tons
for future benefit, after the acidity ex-
isting in the plowed soil has been
neutralized.

Limestone and Legumes

With liberal applications of lime-
stone (and phosphorus or potassium
added, if needed) most Southern soils
can be made to produce abundant crops
of such valuable biennial or peren-
nial legumes as red clover, alfalfa,
clover, sweet clover (mellilotus) and
alfalfa; and these when infected with
the proper bacteria have direct access
almost twelve months in the year, to
the inexhaustible supply of nitrogen in
the air. The biennial and perennial
legumes store up very much more
nitrogen and organic matter in their
roots than do the annual plants, such
as corn, and one seedling (some-
times with a nurse crop and with no
extra preparation of the seed bed) may
provide a legume crop to occupy the
land for from two years to five
years or more.

These deep-rooting legumes are the
"best subsiders," and in many ways
they are the best soil-improving
crops. Furthermore, they are splen-
did pasture crops, and if not cropped
too closely (a bad practice for any
pasture) they will furnish grazing
from early spring till early winter.
These are among the most valuable
crops in profitable live-stock farming;
and nothing is needed more for the
development of live stock in the South.
Moreover, clover and alfalfa are the
best crops to precede corn, as is well
known by every corn-belt farmer.
Limestone and legumes must consti-
tute the foundation for corn and
cattle in the South.

Kinds of Lime.

Ordinary limestone is calcium car-
bonate (CaCO₃) composed of the
three primary elements, calcium, car-
bon, and oxygen, as anyone might
know from the name if he will only
remember that the ending "ate" on
the more common chemical names,
signifies oxygen.

When 100 pounds of pure limestone
are burned, 44 pounds of the gas (oxi-
de) are driven off, and 56 pounds of
quicklime, or calcium oxide remain.
Quicklime is ordinary fresh-burned
caustic lime. When moistened, the
56 pounds of quicklime takes up 18
pounds of water and make 74 pounds
of water-slicked, or hydrated, caustic

Uses of Lime.

Ordinary limestone serves two very
important purposes in soil improve-
ment. One is to correct the acidity of
sour soils, and the other is to supply
the element calcium as plant food;
and in most soils calcium is much
more deficient than potassium, and
even more deficient than phosphorus
in many soils.

The Kind of Lime to Use.

According to the dictionaries, the
word caustic means "capable of de-
stroying the texture of anything by
eating away its substance by chemi-
cal action." This definition well de-
scribes the destructive action of caustic
lime on the humus or vegetable matter
of the soil, and when the "vegetable
matter is destroyed the nitrogen which
it contains is liberated and in part
dissipated, so that the use of caustic
lime, whether fresh-burned or hydrat-
ed, augments the difficulty of increas-
ing or maintaining the humus or ni-
trogenous vegetable matter of the soil.
This problem is already serious enough
in Southern agriculture, and if possi-
ble we should avoid burning the
humus out of the soil with caustic
lime.

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Editor's Mail

(Continued from page 3.)

In sending these papers this gentle-
man said among other things, "As this
is a matter of more than ordinary im-
portance, I consider the public is en-
titled to every bit of evidence regard-
ing the same."

As I said before it is an offence to
public decency that men of this kind
should hold public office and it is my
opinion that by doing so they incur
considerable personal peril.

I do not believe for one moment that
these men are above the law and can-
not be punished. I have reason for
the contrary belief.

I thank the "Graphic" for giving me
so much of its space, in order that this
unpleasant public matter, should have
publicity.

Yours truly,
A. G. FERGUSON.

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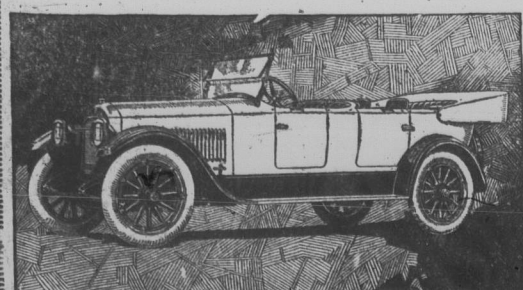
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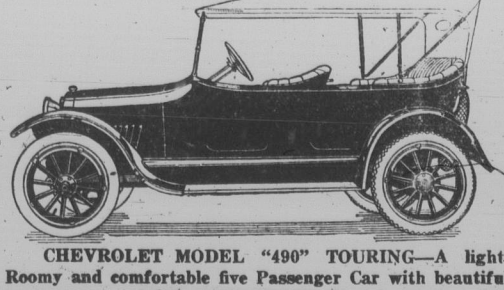
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