## Soilsand CCODS

By Agronomist．



The Manurial Value of Cover． The amount of semi－decompos
vegetable matter or humus present
our cultivated soils sandy and cla our cultivated soils，sandy and clay 100 to 150 pounds nitrogen， 10 on to 18 their productive capacity．
Humus not only fullfils the mechan
pounds potash per acre Humus not only fullifls the mechan
ical function of rendering soils porou nd more retentive of moisture，but fore，be deemed equal，in fertilizing
furnishes also the essential medium value， or the activities of the bacteria which liberates plant food in the soil．Fur
thermore，humus constitutes the chie natural source of the soil＇s nitroge Applications of barnyard manur
may be considered the chief means em ployed in the maintenance of humus
in the soil．Supplementary means
 wheat，rape，vetches or clover．Of pounds more after wheat with clove
these，clover－where conditions are than after wheat without clover．After conducive to its satisfactory growth－barley and oats，increases of 11 tons，
is to be generally preferred．By means 1180 pounds and 5 tons， 1440 pounds of its deeply ramifying roots，clove soil layers and brings up therefro pther more shallow rooted crops．
othey and equally striking．After wheat，bar
ley and oats with clover the increase An additional advantage which clo－were，respectively， 43 bushels，${ }^{22}$ vhe legume family，，ossessese is that of bushels of potatoes，per acre，as com－
tts ability to asssimilate the free nitro－pared with the yields from adjoining gen of the soil atmosphere by means
of mints without clover．
of
Thecterial organisms of minute bacterial organisms
and operating in small nodules on its a a rule be noticeably persistent for sev－
Thus clover roots．Thus clover gathers the great－eral years．
er part of its nitrogen from the ain，
Ond osils which are deficient in lims
and its phosphoric acid，potash and a satisfactory growth of clover will be and its phosphoric acid，potash and encouraged by an application of，say，
lime largely from soil depths beyond
the reach of the roots of ordinary two tons of ground limestone per acre the reach of the roots of ordinary two tons of ground limestone per acre．
crops，consequently enriching the sur－As a phosphatic fertilizer，designed to
face soil with these constituents for benefit both the grain and the clover

 approximately 10 pounds nitrogen， 5 an average，from 4 to 6 per cer phos－
pounds phosphorice acid and 10 pounds
potash per ton．
pherefore 10 tons
pharic about 2 per cent and from 20 of to 30 per of barnyard manure would furnish cent．of lime．They are eminently
about 100 pounds nitrogen， 50 pounds suitable as a fertilizer for clover and about 100 pounds nitrogen，
pㅎobesphoric acid and 100 pounds pot－
ash．


| INTERNATIONAL LESSONMAY 26. |  |
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POULIN \＆CO

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 Tive foliage
The erea ver
the

Sprayi stan wiefal $\underset{\text { gin }}{\text { monen }}$星

 75 to 125 gallons of witer and add
ing one pound of quicklime to the mix
mhis spray will burn vines if the quickime
is omited．
For the proper mixing and applica－
tion of this spray a bucket pump or



 Much less Sikely to produce scorching
than the parig gree spray
Cleaning $u$ up the vines and plowing potato land in the fall alter the croo
has been havested will
ing the number of hibernating beetles．

## If there were a dethydrating （evaporating）plant in every commun

 （eveporating）plant in every community，thousands of bushels of potatoes


test from the beard which grows at a desk or behind a counter． That＇s why three years＇service in the trenches has done more than ten years＇use in the cities to single out，for real，stiff shaving，the

## Gillette Safety Razor

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 ． We have only begun to consider the
nuestion of disense as ane restit of the terribe war now engaged．
ne
We We see how it has not only slaugh－surfering of every deseription－what
Herd millions of men，but has de is the chance for their unborn oopulated country atcer country．
We can as yet scarcely realize the

 anxiety，and where there is，and will hysiene of pregnancy been reeognized
continue to be，hunker，thirst and nak－－as part of the duty of the Health De－ Is there any power in medicine orr what duty could more positively
sanitation which will stay it？
Will Egers er needs to be told that his stock will The mind reclemt the prospect．The




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