## EXCELLENT STUDY FOR FARM BOYS DURING WINTER MONTHS

 Plant Growth in Its Vartous Stages Described Espectally forChe Beneft of Our Youths Who Wish to Make it Obfect Lesson During Severe Cold Months－NeedfuI Things．


Soade need nir for gormination．The
beanst in both bottres wwere soaked

 tor in the tumbler $c$ ald finot cont
uufieient air for germination．







 It If on mousion these that the plant gets turn nourihmment from the sooll
 loares．an your food in taken throusb
your body by the velns，in the nliapo
of thoos Thio planta blood if callod anp．
 need coniliaerablon moisture to to thin
If tho ground tis too light and loose


How the Bean Plant Geto Up． the wator will all drain and dry away，
and no matter how rich the soll may So an important thing to keep in ta that the top oill，to the depth
deveral inches，abould be worked roat can readily puokh through，an and
still be preased Armly anongh to that All over the stem nid leaves ar

## WIRE STRETCHER IS POWERFUL



My wire atretcher in made out of an old mowing machine guard，writea
Wimie Ballird，rural route 5 ，Wenton，W，Va，in an exchange．Got a pole ebout tour and a hatf or Ave feet long，fasten the wire，which should be about two and a half foet long，to the guard，and then about two feot
trome the end of polo，and you have 4 tretcher that in a dandy for atretcol－
tog borbed wire



On the nubeot of hauling manure
Proteanor Gllmore of the Now Yor


 bo storea，but under ordinary cond1－
toons for this purposes． 1 osses from 25
to 45 per cent．In the fertlizing value
of of manure occur，and if it in not kep
reasonably wet and stirred from tim
to to time，excensive termentation re－
sulta，to any nothing of dry burntigg
and leaching and leaching．Looses amounting to
37 to 57 per cont．have been recorcae
when manure has benweather．
Thtin
thising m

food in the right shape for the young
plant to ure，are the frot things to
look after，it you wish to make a good

## HANDLE MANURE <br> DIRECT IS BEST

 ONESLEGEND OF THE MISTLETOE








 every berry is oft the branch．
There was once anti milataken bellef that tho mantertee
grow on oak trees only，but that was

 ixth day yfter the arrat new moon
of enach year
When the ume arrived，priests Sod in white surrounded the tree
nd held
oolemn ceremonies，among $\stackrel{\rightharpoonup}{4}$



 The common bellot in the the memicasy
of the plant was such that tit was






 The price tor polttclana－Bosaton
The place or an auto center－Mo－ Whe．
Whe platece for a laundry town－
Wabitiston．
 The place for earthquaktoe－Clievo
tand
A place tor connotasers of rare oia
wine to avold－New．


 The mig sow Fort iat nar at hana， With the towmortul sooworil． HOME－MADE MOTOR ICEBOAT One Conotruated to Take Place of Reg
uiar Sall toeboat and Used With Tult motorariven Iceboat was con． ly sall Iceboat，and the one from
flich the accompanying Hustration



##  <br> 



EDUCATIONAL TOY IS QUEER

$\qquad$
 t for an axle，resta yon thit anriou on
ho poles of the magnet，which form

 atraction of the gighe nenough that the


 timeraly roil down
on the upper adde．

 ＂No，mother；it tid economenteal．TD



## 

TREMENDOUS LOSS WROUGHT BY PESTIFEROUS LTTLE LOUSE
Many Farmers Do Not Reallie That Lice Cause Mruch Damage Swine－Parasites Worry Antmals and Prevent
Fieding and tn Many Cases Canse Sores Feeding and in Many Cases Cause
Retardtog Natural Growth．

## 

no
no
one
ober
wion
akta
akine

These eruptons were partlcularly
notlceable bnek of the ear fanks．The tarmer complativee that
hat hogs were not eating well and he
could
coll
eores to break out
ruts bunch of hogs at all ages，trom
three－monthsold plas to three．，earom
sown，ran on an pature durtng the
day but at night slept in
wew
were
be
caut
caut
co cauned by lice，and the furmer
caught two or three plgs and found
them almost allive wh
them almost allve with parasites．He
was aptonished and admitted that he
had neyer
mala before．
Many
Hee are a source of tremendous loss
tn the ratsing of hogs．They worry well，and in many cases produce sore growth．
It
ret lice by dipplng or sprayling，but these
remedies are of no pens and aleeplng quarters are rid o
the lice as well．
The best dip to use is sorie of the
We do not believo in kerosene harmess． ston because unless great care is tak－
en to keep the solution very wealk the antmals will blister if allowed to run
in the hot sun after belng sprayed When a bunch of hogs is badly in－ although spraying may be used，pro－
videe the hogs are ted and thrown
so that the spray may cover every so that the spray may cover every
portion of the body．It ia no use to


SPECIAL DEVICE
FOR DEPTH SAWS
Gago Shown in IHastration Wixs
be Found Userfil When Cut．
ting to Any Untform

茄男累ス a spectal device is is provided for the the and
purper purpose the task 1 ss an extremely fime
cult one，says the The accompanytng thustration ehows
a small gage which may be applifed
to any gaw and thany anw and may be adjuated
thereon to provent the saw from cut．
ting deeper then ting deeper than desired．Two thin
strips of wood of about the length of
田保 IT

## the

 apper end．A thumb acrew below thisblock block may be tightened to clamp the
two atrips against the blade of the
saw．These strpa may be socured at
any dealred point on the blade，and any desired polnt on the blade，and
tus provide an easily adjuastable
depth kauge．

Herse susceptible to Cold．
Horbes are exceedingly suiceptible Horbee are exceedingly susceptible
io cold on the chest，and a horae will
oftentimes contract pneumonia or oth． oftentimes contract pneumonia or oth．
er Ils if left standing unprotectod．
which he would escape if provided with a thick apron of carpet or oll－
cloth suspended from the hames and reaching to the lowest portion of the chest．It is a little thing and ine
pensive，but it is worth attending to

Itailan Cotton imports． Nealy now lmports more than $\$ 50$ ，
Hence therth of cotton eavernment yach yar．
Harefally Hence the government to carefolly
fostorths all attempta to produce a
native crop．

PROTEST MADE
AGAINST HUNTER
Roanon Why Farmer shoord
By bessim
Atow yarra as，when the ponoers Loro oopeatations of tho hanterir they are oharged bil hunter and aurround．






 $\qquad$
 ane noprocen them readily．
 the the datryman，to say nothtng of the
frequent aceldents，when a valuable
antmal is sacrificed，the hunter mak－ tng of with his game and leaving the
owner of the land that much poorer Flnally，the gaime is rapialy belng oxterminated，and much of it ts realng
he farmer＇s friend．The quail，the aerr note of white fills all bird lov
ora with joy，tis one of the best ingeo
and weed destroyers A flock of quall in the potato patch
endera the uae of Paris green necesarar，and the detested cut－worm
is their favorite desert The farmer＂feeds the world＂but
there to no reason why he should be expected to tolerate a band of tres－
passers every fall，endangering the
iffe of his posseasions． Ife of his possessions．In many com－
muntiles farmers are banding togeth－
or agaliat the hunting nuigance．

