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 Ifyou enfor freen tea you will bo antie. GUARDNG FORESTS FROM INSECTSHow Entomologists and Foresters Cosperate in Protecting This Great Natural Resource.


Obtaining Accuracy in
Measuring Canada.
 recognized and it is the alm of the dif-
ferent organizations entrusted with Canada's surveys to attain as near an ossible to absolute accuracy. Every seodetic survey of a continent or coun ry the surface is mathematically
overed by triangles, the triangle be ng the figure into which every con eivable outline can be divided. Every given the length of mathematicta riangle and the angles which the ther sides make with that line he can ides exactly, and, consequently, osition of the third angle. Since any umber of triangles may be bult up
an the frst one, the need of knowlag

## NUR8ES



Instects have studied the situation
minutely throughout Ontario. Quebec
and New Brunswick and the final reminutely throughout Ontario, Quebec
and New runswick and the innal re-
sults of their studies with recommen sults of their studies with recommen
dations of methods to be used will be dations of methods to be used
ready for distribution shortly.
Efforts to Control Pests. The extensive barkbeetle outbreaks
in the yellow plae, white pine and In the yellow pine, white pine and
lodgepole pine in British Columbla lodgepole pine in British Columbla
have killed many millions of feet of the best pine timber in the province,
and the infury is still spreading in many places where artificial control
measures have not yet been under-
taken. Extensive control operations measures have not yet been under-
taken. Extensive control operations
carried out by the British Columbia carried out by the British Columbia
Forest Branch and the Dominion For Stry Branch in co-operation with have
Dominion Entomological Branch have
resulted in the satisfactory resulted in the satisfactory control of
these outbreaks over hundreds of square miles of forest lands and in the
direct saving of many millions of feet of timber. It should be possible.
through an extension of these control through an extension of these control
measures to check all the remaining pine beetle outbreaks in British
umbia during the next two years. umbia during the next two years.
These insect problems and many
others are being investigated by the others are being investigated by the
entomiologists of the Division of Forest Insects.- The control of forest in.
sect injuries must be based on a know.
ledge of the habits of insects, the prin. sect injuries must be based on a know-
ledge of the habits of insects, the prin.
ciples of silviculture and the ciples of silviculture and the methods
of logging employed in the region at
tected; and, while direct measures, fected; and, while direct measures,
such as modifed logging operations,
must frequently be employed, the extension of the practice of scientific torestry will largely remove many of
the insect and fungous troubles so common now in our timber lands. It
is belng realized that forest entomol-
ogy and forest mycology are branches of silviculture and that for the solu-
tion of their major problems, foresters,
cal lumbermen must work in co-opera-
tion, as they already have been doing,
in this country, in the most harmoni
ous and effective way.
The services of our entomologists
are available without charge for ad
vice with respect to all forest
other insect injuries, and for more de
tailed investigation and report in the
more serious cases. Reports on the
major problems under investigation
are published from time to time in the
form of bulletins or circulars of the
the exact length of the first line of al the exact length of the first line of al
will be apparent. This line is called
the "base line" and is ceasured on the
ground with all the exactitude known
to mode sele to modern science.
This measurement of base lines it
therefore one of the features of the work of the Geodetic Survey of Cana and improvements in instuments are
amployed to secure the best results. succesoful Devices.
 deal conditions for running a base
ine and where the line is run through comparatively level wooded country
cit all the brush and trees are cleared
a way and devices are adopted to pre urface of the ground. The greates dimculty oocurs in mountainous counries, and in Canada there has been
uccessfully introduced a method ot measuring a base line in winter o over
ine fronen surface of a mountaln lake Accuracy is attained by the exercis peration. The standard of length of netre bar made of nickel. It is direct Iy based on the International metre
bar having been standardized by the dington from the National prototyp wetre of England, one of the bars re
celved from the International Geodeti ceived from he in at Paris in 1873 . The
Conference held and
greatest care is taken in obtaining the lengths of the fitty-metre tapes use
seare in measuring base lines. The length
of a five-metre bar is Arst obtaIned
from that of the metre bar, both bara betng placed in a solution of meiting
ice at a temperature of 0 degrees Cen

Is checked by reference
tervals to these siandards.
Imall Chance for Epror. The base llase, for the purpose of
measurement, is generally divided in
 ighths of a mile). Posts are placed
it twenty-five metre intervals: larger ones at the even frty-metre lengthy
and smaller ones intermediately. nes at the even ary-metretely,
and smaller ones intermeditely
arger post than ordtnary is placed a larger post than ordinary is placed at
the end of the kilometre stretches.
Where the tase ine passes over ra. the end of the kllometre stretches.
Where the base line passes over ra. Where the base creeks, or shallow lakes, it in
vines, er necessary to put up briage work and
une longer ponts to carry the line use longer posts to carry the line.
Each kilometre section of the line is
measured four measured four times, once in each at-
rectlon with each of two tapen. rection with each of two tapes.
The effort throughout is to have the
measurement exact and there to no The efrorent exact and there ts no
standard maximum allowance for er.
stan sor. At the same time it may be er-
or
plained to the general public that to day error of measurement in base inyes does not exceed one-twentieth
an Inch per mile.

## A Crocodile Report.

 Running rallways in India has cer ian drawbacks. Witness this reponhat the traffic superintendent of the Bengal Northwestern Railway at Son poor recently recelved from the native
station master at Koparia: "Resident Engineer Mansi saw other station borrow pit, which contains
water to a helght of about ton feet and is broad 40 feet, connected it is, beome now only with Kosi River food
water. Two small and one their moth.
er crocodile lie in it. "Last night one big crocodile came orm and was lying. Pointsman Kunorty down that he narrowly escape of days ago the crocodilie injurryt to a kidd,
but could not shoot. for it went under the water. "This is of course dangerous to pubnc passengers who remain at station
during night, unconsclously sleepling and their tamily and chlldren. Pleast rrange!
We
We hope that the matter has been
arranged by this time, and that the are not sitting on the plattorm, shed.
ding crocodile tears for the station


Pat Macree was in search of a new house, and at last, atter many weary
months of unsuucessful search, he just the thing.
Accordingly he went off at once to see the agent about it.
That gentleman at once gave him the key and accompanied him on a
tour of inspection round the premises. Looking out of one of the back win.
dows Pat remarked that the rallway ran rather close make rather a notse,"
"The trains do makent admitted. "They may inter.
the agen and the agent admitted. They may inter.
fere with your sleep at first, , but younll
get accustomed to that after the first ${ }^{\text {two nights." }}$ "Arrah, shure, or'l not want to get accustomed to it at all, sir, answered
Pat, " 'cause Oi can easily go an' slape in me au
nights!"

 ing her new dress to some of the
neighbors.: "Oh, mother, what a prety dreass:" cried Dorothy. "Do wear
to-night." "No, darling." said the mother, "not to-nlight. This sis to wear
the party next week when ladiee the party next week when ladies
and gentlemen come to diner." Dor-
thy showed her disappolntment. "But othy showed her disappolntment. "But,
mother," she said, undenly, "can't we pretend just for thls
dy fa a gentleman?"
Not a Family Pet.

$$
\begin{aligned}
& \text { Not a Family Pet. } \\
& \text { "Jim, to what family does the whale }
\end{aligned}
$$ long?" asked the teacher.

"I dunno," said JIm, awaking from a sound sleep, "no familly in our neighorhood owns a whale."
 diual went into an ice cream parlo
the other day and bought an ice cream cone. He went out on the side dalk to eat it. Presentiy he reappear ed
and, handing it to the astonished clerk,
said: "Thank you for the vase." Germany's mercantile fleet has in creased from 500,000 tons in June
1920, to $2,500,000$ gross tons to-day.

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## 

The Man of Perfect Service."
From Serbla comes an interesting coconte of a popular hero who live
one of the country districts. He peasant named Marko, but he
nown far and wide as "The Man nown far and wide as "The Man o
Perfect Service." "With nine of his peasant comrades
was detalled during the Great War ho do orderly work with a general an Is stafr. It was the duty of Marko
and his companions to keep every.
ining in order about the general's headquartere.
They had not been at work long be.
ore the general recelved loud come plainta of their slackness. He called
hem before hlm. "Brethers." he call hem before him. "Brothers," he sald. oif and my officers. Let it be done Atser the appeeal they showed mark
ill timprovement. But before long the
complaints began again. One night as Marko and the others were settling sleep the flap of their tent lifted,
ind the general appeared. "Good. ight, brothers!" he sald. "I hope all "Good night," was the grult rejoind r. When the flap had tallen Marko
ried, "Brothers indeed! Who's he work! What is he a general for, I'd nke to know? He's no better than the
rest of us." hey discovered to their astonishment he officers' Doots, brightly polished,
tanding in a row just inside the tent. hey hastened into the hall and foun
he fire burning merrily and the place sooking cleaner thatore! They rubbed their
seen it bes and spoke to one another of the
eye old fairy tales of the elves that cam
o help the good housewife. next morning they theclded to set one
of their number to watch during the night. Towards morning the sentinel
saw the general appear in the tent and
quitetly arrange the offlicers' boots, all perfectly polished, in a row. As soon
as the general had gone the man man man
aroused his comrades and told them the staggerlng news.
Presently Marko was summoned to the generals presence; he guessed oollsh words of complaint. "Marko,"
aid the general, "did you ever hear of "Why, yes, slre!" was Marko "Then you remember the lesson He
gave His disciples when He washed Marko's heart was suddenly filled
th shame "Marko," continued the officer,
mour general because a general supposed to be able to do any of the
duties of those under his charge that I can do youre. work, but youn mus
not think that I have not enjoyed do ig ht. "In every perfect service the
is hidden a great treasure. Whener is hidden a great treasure. Whenever
a raan truly gerves he flids God." That was the beginning of a great
change for Marko and his criends complaint, and when the war was over begin there a new life of service. So pertecty cause to thluk with undying gratitud
vice."

Not on the Bpot.
Little Tommy had a sore toe, so his mother thought thls a good op. "Tommy," she sald, "If you cest your oatmeal, it will cure your toe."
shortiy afterward Tommy came to is mother with a very disgusted ais oo lan't any better. I guess the stuft
minarde Liniment Heale Cute.
Minard's Liniment Neale
Pat was walking along the roac
hen, hearing a whir, he looked back ad naw Larry fying tast and furious "H1, walt a mlnute," shouted Pat.
I want to speak to you." atch the post," cried Larry, flying by Suadenty tha a relegraph pole, and
crashed into Larry and the machine tay in a helip
less tangle. When Pat came up, Larry
俍 $\begin{aligned} & \text { uzzle. } \\ & \text { "Begorr }\end{aligned}$
" "Begorra," sald Pat, with
you caught the poit

He Forgot the Combination. A colored man war arlving liong thy Ad in a ramashacklo buggy drawn by
bony, aparined old horse, whea a "Hanger halled him: "Hellol. uncle! Can you get me to
estation in time for the next train?" ${ }^{\text {"No, suh }}$ "No, suh; I don't belleve I kin, suh
his is a broken-down ol' cavalry awse. You can't git him offen a walk "Huh! You say he's an old cavalry The man clambered upon the seal
The mime nd took the relns. "Make reedy!"
on chatled out nharply. "Charge!" Thalled out mharply. "Charge!"
The old horse pricked up his eare Thd broke into a gallop. As they
and reached the station the man shouted,
Halt!" The horse obeyed. The man
Then Haltt!" The horse obeyed. The maa
Alpped old John a quarter.
 "She station as quickly as possible. "SuttInly, gen'l'men," sald John refns and shouted: "Make ready!
Charge!" The horse broke into a galop and soon reached the station.
"GIt ready to jumy, gen'l'men," John ooking trightened, shouted to hie
eres. "Ive done forgot de word what Flexible armor was copied from the tter the fish. Also condider our conceit. The fle, the anchor, rails and
grooves of guidance, dovetailing and grooves of guidance, dovetailing and
many manual instruments all have

FARMERS
 EDDY'S MATCHES always satisfy the housewife
zumpuns mave

## IN SOUPS, STEWS,




ARE YOU COOD AT PUZZLES? THE FARMERS' QuIDE, Canade mot tive.
WHAT IS THE AGE OF THE LION? This is the big question.


