THE BROWN TAIL MOTH SIT-**UATION IN NOVA SCOTIA**

Continued from page 6 itself, and ten days later emerges as an adult fly. During the winter all the brown tail moth webs are saved and in the spring are placed in large wooden cages. The caterpillars that leave the nests are fed until all the parasites have emerged from their host, after which the nonparasitised caterpillars are destroyed. In this way the parasites are saved for another year which otherwise would be destroyed were the webs burned. Parasite cages have been located at different points in the intested area, viz., Bear River, Annapolis, Moschelle, Round Hill, Bridge-town and Wolfville. There were also nests saved from twenty-one localities during the winter of 1916-17, and in the following summer the caterpillars were reared at the laboratory to determine parasitism in this insect. The following shows the average number of Apanteles that emerged from each nest:-

	No. of Apantele		
Locality	County	per we	
Weymouth	Digby	.13	
Smiths Cove	1.	4.2	
Bear River	Annapolis	6.71	
Annapolis	/**	3.0	
Moschelle		1.46	
Deep Brook		4.5	
Grenville Ferry	44	1.46	
Belleisle		5.26	
Tupperville		2.33	
Round Hill		12.25	
Upper Granville		.53	
Bridgetown	- 11	1.1	
Clarence	100	2.93	
Williamston		5.46	
Nictaux		3.	
Middleton	MICH.	0.0	
Harmony	Kings	.11	
Somerset		0.0	
Highbury	**	2.28	
Sunnyside		0.0	
Greenwich		.42	
I might also	mention t	hat about th	

time the Apanteles were imported into Nova Scotia, that this same species was recovered from a brown tail larva at Annapolis. It probably came along with the brown tail from the Ne,England States dollar's worth of damage. was considered worth while, however, to assist this particular parasite to increase rapidly, so its breeding has since been continued.

The Calasoma sypochanta, a brilfiantly colored green beetle, was also liberated in Nova Scotia. This beetle has never been recovered, so it is not known whether it survives or not.

Another parasite, Compsilura concimata a tachinid fly much resembling the house fly, has also been liberated. This fly deposits a living larva beneath the skin of the young brown tail larva. Extensive work has been conducted, using very large numbers of caterpillars in order to recover the parasite, and it is of interest to know that the only Compilsura recoverd in N. S. from a brown tailed moth larva from Annapolis, within two miles of where it was liberated.

3. Climatic Conditions. - For a number of years the first webs collected in the season were experimented with in this manner, viz., twenty-five nests were tied in a wire cage and one cage exposed in various places over the province where official thermometers registered. The cages were collected at the end of the severe weather and a count made of the living and dead caterpillars. The accompanying table shows results from this exposure during the winter of 1913-14.

Lowest Per- Per- tempercentage centage ature Locality Living Dead Far. 45.5 Kentville 60.6 39.4 -17

A Kidney Remedy

a by hadly digested room overtakes these organs to mate the irritant acids id. Help your stemach to orly digest the food by a 15'to 30'drops of Extract cots, sold as Mether Seigel's he Syrap, and your kidney der will promptly distract the genuins.

-15.5 -18.5 25.0 -13 Halifax 75.0 35.0 65.0 -20 Antigonish New Glasgow 57.0 -19.5 43.0 Parrsboro 4.0 96.0 -21 .0 100.0 **New Germany** -27 49.0 51.0 -6.4 Now, incontrast.

a milder winte	r, 1912-13.		
		I	owes
	Per- P	er- te	mper
1	centage c	entage	ature
Locality	Living	Dead	Far
Kentville	95.5	4.5	-9.
Windsor	96.0	4.0	-8.5
Yarmouth	97.3	2.7	1.8
Round Hill	97.2	2.8	0

mercury drops to 10 deg. below zero, the temperature cannot be considered as a cold below -10 deg. mortality increases,

4. Spraying Spraying has aided control work to a marked extent. Never in a well sprayed orchard has there been a ad outbreak of brown tails. For a number of years a well sprayed section of Kings County prevented spread, but the moth, being such a strong flyer, finally crossed this area, and started colonies in unsprayed orchards. As the larva commence to feed n the spring, as soon as the buds begin o burst, it is only the early sprays that are effective. It has also been proved that the last regular spray of the season, with the facts are facts an ancestor of mine usual arsenical strength, will either signed the Declaration of Independence!" kill all the newly hatched larva in the fall, or else so weaken them that they are unable to form a sufficiently protective nest to withstand the winter.

In conclusion, the Provnce of Nova Scotia is particuarly fortunate to be in such a favorable condition and to have escaped the ravages of the brown tail moth. In the New England States an immense amount of damage has been done. both to cultivated and forest areas, while

Such gratifying results have been brought about chiefly by the several agencies, which I have attmepted to explain. The insect is under better control than it was a few years ago. However, there is plenty of evidence at hand to show that, if one or more of these agencies should be removed, the pest is likely to again assume dangerous proportions

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bristled. "What sort of a document are

gentle rejoinder.

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ass, open class, breeders' class and win-

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WENT HIM ONE BETTER

important and older document." "Nothing on earth more important than the Declaration!" the little man

you talking about?" "The Ten Commandments," was the

Mr. Henpeck-Wot's yer steak like

ave some tripe

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evening after the completion of the ser-

vice he hurried down the aisle to station

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in the congregation. She was employed

as a domestic in one of the fashionable

homes, and the minister, noting that she

He welcomed her to the church and

expressed the hope that she would be a

regular attendant. Finally he said that

if she would be at home some ev ning

up to one of the rooms a couple of boots,

one of which was a top-boot and the other

"What do you mean," said the visitor

"But what bothers me most is that there

is another pair down stairs just like 'em.'

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during the week he would call.

'but Ay have a fella."

an ordinary shoe.

was a stranger, stretched out his hand.

himself at the door.

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