and willow trees it inhabits. Its chrysalis like the and whow there it inducts. He chryshis like the caterpillar, is a singular object, being brownish or asby-gray in colour with some portions whitish, and with the middle of the back forming a thin rounded projection, standing out edgewise like an exaggerated nose! The chrysalis from the antumn-feeding caterpillar remains all winter and produces the butterfly in the string; these lay the cognificant which proceed. in the spring; these lay the eggs from which proceed the summer broad of larve, which in their turn, are transformed into butterflies about the end of August or beginning of September.

3. The romaining specimens sent us are false cater-pillars of a saw-fly, which we have not before met with They are blue black in colour, with a series of with They are blue black in colour, with a series of yellow spots on each side; about three quarters of including the Townships of McNab, Horton, Admassin inch in length, and furnished with twenty-two legs. One of the specimens formed, during its journey to us, a tough blackish cocoon, the produce of which we look forward to with much interest. It will reference to this journey that may not be wholly defin all probability turn out to be aspecies of saw-fly of the genus Allaudhus or Nemalus. Our correspondent the genus Allaudhus or Nemalus. Our correspondent is should be borne in mind that this is but a restates that "these caseers are very numerous and destructive to the leaves of the Weish willows; they stick around the edge of the leaf, and will not leave then for its engine to make a lambering business. it until it is all consumed: and when they have cleared one lot of willows, they go to the next. There are commonly from two to six or eight around a leaf." For their destruction we should recommend handpicking, or watering with whale-oil soap suits or any

other strong soap-suds.

Among the insects that feed upon the various species of willow, we may mention the beautiful Twin-eyed Sphinx (Smerinhus geominalus), the Fork-tail Moth (Cerura Isorealis), a large yellow saw-fly (Cimbex udmi?), the Goldsmith beetle (Areoda lanipero), the common May beetle (Phyllophaga queremu), the willow gall-gnat (Cecidomyia salicis), a plant-louse (Aphis salicit), and many others; all of which we have observed in various parts of Canada have observed in various parts of Canada.

## Entomological Visit to the Cooksville Vineyard.

We lately had the pleasure of paying a visit to this establishment, which appears to be rapidly attaining success under the skilful management of Mr. De Courtenay. By a recent Act of Parliament the Company has become incorporated, and the distillation of brandy from the grape is permitted them free of excise duty. The great disadvantages under which they previously laboured having been thus removed, they will now undoubtedly go on and prosper, and we expect before very long to find the Cooksville wine celebrated and appreciated all over the country. Apart from inspecting the vineyard, and going over the establishment, the more immediate object of our visit was to look at it in an entomological point of view, and see whether the vines were affected by any of the numerous insects that commonly prey upon them. Our natural expectations were happily, however, disappointed; for after a close inspection of the vines we could discover no single insect of any consequence. The grasshoppers had made holes in a few leaves, just in the same manner as they are attacking everything else, and one or two leaf-mirers had discoloured a few others; but the injury done was far too trifling to be appreciable. This healthy and unusual state of things is due to the careful pruning and good management of Mr. De Courtenay, which has effectually prevented any insect from got. which has effectually prevented any insect from get-ting a lodgment. This is very remarkable when it is remembered that the bearing vines cover an extent of twenty-five acres, and about as many more are planted out for bearing next year or the year after. We have never before seen vines in this country free from some of the caterpillars or beetles which usually make their abode and derive their sustenance from the grape, both in its wild and cultivated states.

Userul Insects.—The Entomologist says:-- We blame the house flies for annoying, and fail to see that in the larva state they have cleared away impurities around our dwellings, which might otherpurities around our dwellings, which might otherwise have bred cholera and typhus fever. We execute the blood-thirsty mosquito, and forgot that in the latva state she has purified the water, which would otherwise by its material effluvia, have generated agues and fevers. In all probability, when we rail at the Tabanus that torments our houses in the summer, we are railing at insects which in the lavva state have added millions of dollars to the national wealth, by preying upon those most insidious and unmanageable of all the insect foes of the farmer—subterraneous, root-feeding larva." farmer—subterraneous, root-feeding larva."



## An Agricultural Tour Eastward.

To the Elitor of THE CANADA FARMER

Sir Having completed an agricultural tour through a large portion of the County of Renfrew,

than for its agricultural productiveness and advancement: and it is not till within a comparatively short time that the latter has received any marked degree of attention and encouragement. In most of the townships above named agricultural so ictics exist that are more or less flourishing. At this busy season, it is not practicable to get up large meetings, but in going through a township one has an opportunity of personal intercourse with the officers of so letter and of a number of the more intelligent and enser prising farmers, and business men generally

I am under especial obligations to Mr. J. L. Mc-Dougall and Mr. McLaren, the President and Secretary of the County Society, in assisting me through a large part of my journey, and to the officers of other societies, I am also indebted. In the Village of Renfrew the meeting was attended by about forty persous, who evinced much interest in the various topics embraced in the address and the conver-ation which ensued. I may be allowed to remark here that scholastic attainments are by no u cans infinical, as many suppose, to the formation of ordinary halors of business. The President of the Renfrew County Society is a young man, who, a few years ago, won the highest mathematical honours in our Provincial University, and now conducts with much care and efficiency an extensive business, embracing both agricul ture and commerce.

There are large tracts of excellent land in many parts of this extensive county. McNab, Horton, and Westmeath are considered the best town-hips. The western and northern parts of the county are exceedingly rocky, and in some places the bare rock constitutes the surface, rendering cultivation forever impracticable. These areas, however considerable, mostly contain patches of good and sometimes deep soil, so as to admit at some future time, when population and markets justify, not only a limited cultivation, but extensive ranges of pasturage for sheep and cattle. Labour sustained by capital and directed by skill, will one day achieve wonders where all is now desolate and forbidding. As much of this section of country has abounded with pine, the lumberman has left the stumps, which, next to stones, are the greatest impediment to cultivation. Stump machines are occasionally employed, and fields here and there may be now seen, even on pine lands, that are free, or nearly so, from these obstructions. This process, however, will not likely be carried on for a long time to come, but upon lands of first quality.

There are no pure breeds either of cattle or slicen In this county. Some of the native animais are its ly good, but this majority is small, and of slow growth. Here and there, traces of Durham and Ayrabached, always attended with growth. Here and there, traces of Durham and Ayrshire blood may be observed, always attended with superior tymmetry and greater size. Most of the sheep have a strain, more or less, of the Leicester, and admit of great improvement. I urged upon the people the importance of getting pure bred male animals, which, in a short time, would produce an astonishing change for the better. This suggestion, there is reason to hope, will not be wholly disregarded. There are some well bred pigs in the county, and the horses seem mostly adapted to their work, which in a rough, lumbering country is exceedingly

exhaustive. I felt surprised, in some instances, to first that so much had been done in so short a time. Well cleared farms and comfortable homesteads are to be found on the better class of soils; and even unstones are generally used for that purpose, but Mr. McDougall has a man on his estate who makes drawing tiles by a machine, which, however, is not of the most approve construction. In some parts of the county, flor ... & McNab for instance, the Peripshire iron slowed by the large l county. Hor ... & McNab for instance, the Perthshire iron plough is used on clear land. It is an excellent implement, on the Scotch swing principle, and coats when imported about \$10. The formers find that deeper and more thorough cultivation, after the fields have been cleared of stumps and other obstructions, is invariably attended with beneficial results. In such situations mowing and reaping machines (severally the combined action) are often employed; but from the newness of the country the scythe, cradic, and sometimes the now all but exploded sickle, are usually in requisition.

ploided sickle, are usually in requisition.

You be of the soil of this country appears to be well adapted to pastural purposes, and in my intericourse with the farmers this became a prominent subject of conversation. I never tasted better butter any where, and excellent choose is made by Mrs. For-test and Mrs. McLaren, of Hinton; and there is a nest and Mrs McLaren, of Hinton; and there is a profit wide impression that this branch of industry might be prolitably extended. But little barley is grown what little I saw was good, and this cereal might be much increased with advantage. The same observation applies to turnips, mangolds and carroted all of which appear to do well. Potatoes are raise extensively, and I never saw the crop anywhere so promising. For oats, pork, &c., there is a large and constant demand northward by the lumbermen. Agriculture is slowly advancing in that direction. I found Pembroke a nice flourishing little town, with found Pembroke a nice flourishing little town, with adjacent fields well cleared and entityated, bearing heavy crops. The trip up the Otlawa was fifty miles from this place to the head of steam navigation. I must not attempt to describe. Settlements are of course few and far between, but the scenery from the deep river is both grand and beautiful. People seeking coolness and seclusion during the hot weather. would find both to their heart's content in these magwould mut both to their nears a content in these mag-nificent wilds, which echo only to the noises made by the Indian and lumberman. The steamer on these waters is capacious, and affords all the necessary comforts of travelling, and at the end of the trip there is good and extensive hotel accommodation in a plain and inexpensive style. I learnt that outs, pointoes, &c., were grown to a small extent by the lambermen 150 miles north of this point, where the

leritory of the Hudson's Bay Company commence.
I may just add that the crops generally are very
good, never known better. Winter wheat in many places suffered from too much exposure, it is being gathered, but spring wheat, which is extensively cultivated, is anguificent, and I regret to say, in some places, it is considerably affected by the midge. Warm and settled weather is now much needed; the late heavy rains have caused the crops to lodge where heavy. With such a change, the farmer's prospects in these parts would be of the most cheering character.

Yours &c. GEO. BUCKLAND.

Aruprior, Aug. 4th, 1866.

BEES DESERTING THE HIVE .- Mr. Samuel Dickson, of Cedar Hill, makes the following enquiry:—"Can you, through your valuable publication, give any information respecting the reason why a swarm of my bees has left the hive after being three days in it. They seemed to have began to do well, leaving more than a suit of heavy in I. The king a first formation. than a pint of honey in it. The hive from which they swarmed was sheltered from the sun in a good bechouse, but the hive from which they have gone away was exposed to the sun. By giving all the information you can in your next issue you will much oblige me."

Ass.—Our correspondent has not given sufficient particulars of all the conditions of the swarm, to enable a satisfactory explanation to be given of the proceedings of the bees. Mr. J. H. Thomas, of Brooklin, suggests the following:-"In all probability it was on account of the hive being exposed to the sun; as it is often the case that bees will forsake a hive that is greatly exposed and especially if the hive is new or newly painted. There are also other reasons for bees leaving a hive. Sometimes the loss of a queen, or an old musty, mouldy, or sour hive may cause them to leave. Second swarms may cometimes rush on of a hive when the young queen goes out to meet the drone. Again, they sometimes leave and no reuson which in a rough, lumbering country is exceedingly | can be assigned for their so doing."