by electric degraph. By a comparison of sta-tistical returns, it was shown that in proponent for the parent of the lative found in the ear—con-to population our mercase trong agency from is sequently, it has been condemned as the origin of to population our meriase tropa amenication is one-thing greater than to out in Union States, which with a population filtern times, prech to population, our me mass from annuigiation be tween 1830 and 1850 has been free times that of the United States. Lecture seeml was decorded to the growth of Upper Canassa in its higher the terests, those of an intellectual and spiritual char acter. In 1812, Canada had five newspapers, all in the Lower Province. Now it cannot have much under two hundred. A hundred and eighty, or a little above, would give us, in proportion to population, a supply equal to that of the United States, which have about 2500. Generally speak are our proportions with company favourably with ing our new-papers will compare favourably with those of our neighbours as to character. The number of our book shops, with the extent of their stocks, and the books stowed in libraries and found on tables, indicate a growing taste for real found on tables, indicate a growing taste for realing. On all hands a growing interest is manifested in the subject of education. Our schools and school-masters and pupils are increasing rapidly flums largely increased are being paid for education, the people in many parts voluntarily taxing themselves for it support. The character of the education given is also improved. In numbers of places, too larger Schools are being introduced, with a number of qualified teachers, which admit of proper classification of numbers. introduced, with a number of qualified teachers, which admit of proper classification of pupils and division of labour on the part of masters. Schools of this sort have been seen by the lecturer in successful operation in Brantforti and London. The Normal School is rendering the country great service; as is also the Chief Superintendent of Common Schools, by the diligence, singleness of purpose, and industry with which he is devoting binned to his mobile employment. The numof purpose, and industry with whithin is devo-ting himself to his noble employment. The num-ber of Grammar Schools is also increasing, and the number of Mechanics Institutes. Now, too, the Provincial University, with its staff of well qualified Professors, to which addition is wen quantieu groiessors, to which addition is being made, offers its advantages to the youth of the country at a price little more than normal. Trinity College, likewise, though a denomina-tional institution, adds to the means of education in the higher departments. It is a fact specially cheering that the means of religious instruction and worship are increasing at a rate fully equal to the growth of the population. This was shown by comparison of the statistical returns of different periods. In civil arrangements and the amerent periods. In civil arrangements and the application of correct principles to the government of the country, it is believed improvement will generally be admitted to be taking place.—
Our municipal institutions are working, on the whole, satisfactorily—improving the country and educating the people. The past growth—the country, with its extent, its soil and climate, and the facilities for intercommunication afforded by the rivers and lokes were next adverted to. These its rivers and lakes, were next adverted to. Those he said, in connection with the character of its inhabitants, who were vindicated from the imputation of want of enterprise, alloried pledges of the future greatness of the country. The lecture closed with an exhortation to Canadians to do their duty towards the development of the re-sources of the country.

Natural History.

ICHNEUMON FLIES.

A merciful Providence has sent three species of Ichneumon flies to prevent the destructive operations Ichaeumon files to prevent the destructive operations of other insects upon our corn.—Those benefactors of our race, know how to introduce their eggs into the larvæ of the eccidomyta, which are within the glumes of the wheat. The most common of them is a small fly of the Hymenoplerous order, originally called Ichaeumon tipulae, but now goes by the name of Platygaster tipulae. The male fly is black and the fomate is of a nitchy color—both black, and the female is of a pitchy color—both shine very muc'i, but the former is not often met with. This Ichneumon has been observed by

the very flis it is destined to diminish. This shows falso reasoning in the absence of accurate inveswhich with a properties in conversation. In properties a usation — people should not make harty could to population, our increase from innuigration by a sales when they happen to see two things togo tween 1830 and 1830 has two five five times that of their. Farmers have often concluded, that the ther. Fathers have often concluded, that the mile lchneumon-flies, they have seen upon the wheat, must have land the oggs which produce the larve of the milge. Prejudice and hasty judgment lead to perpetual misconstructions as to things both moral and natural. This little Playgaster may be readily found on the glumes of the wheat-plants, in the months of July and hands. It runs residily over the gaz and seems of the wheat-plants, in the months of July and August. It runs rapidly over the ears and seems to know well which are those occupied by the larvæ of the inidge. The sight has been witnessed by the following experiment.—"A number of larvæ of the wheat-midge were put upon a piece of white paper, pretty near each other, and an Ichneumen was dropped amidst the group. The energy of her manner, the rapid vibrations of her antenne, and the whole of her attitudes, were most amusing. the whole of her attitudes, were most amusing. On approaching one of the larvee her agitation quickened to the utmost intensity; she soon bent quickened to the utmost intensity; she soon bent her body in a slauting direction leneath her breast, applied her tail (ovipositor) to the larvæ, and, becoming still as death, sent forth her curious sheath and deposited her egg in the victim, which writhed considerably under the operation. If she came to one that had previously an egg in it, she left it in an instant, and sought another, for the Philygoster lays but one in each." Indeed it would take up too much space at present to lay beforce the reader, the labors of the Ichneumon-flies. They are a division of the insects most useful to man, and we are indebted to the labors of the English entomologists for their attention and accurate observations of this strange and extensive class of the insect creation. In fact, it is impossible to contemplate the habits of the insect brought before our notice, without being deeply impressed with the omnipresence of the Being to whom all things owe their existence. The same Hand that spread the north over the empty space, and suspended the earth upon nothing, and keeps the stars in their courses, regulates the numbers, instincts, and uses, of the smallest living things, appearing equally perfect in all:—

"What less than wonders from the wonderful, What less than miracles from God can flow."

The other two Ichneumons are supposed to limit the increase of the Platygaster typule; one of there is said to oviposit in its eggs, the other in its maggots. Still, there are a great many species, opening a wide and curious field of in-quiry for the entomologist. One of these extraordinary flies has an ovipositor, nearly thrice its own length; indred, the instruments with which nature has furnished them are beautifully which nature has furnished them are occurring adapted for their useful work, and there could scarcely be conceived a more interesting subject for a separate treatise than that of their forms and habits, when properly investigated it has been therefore, my design to show how carefully there is provided for by the goodness and wisdom of God, a natural antagonism to the wisdom of God, a natural antagonism to the disasters that would befal mankind from the unchecked multiplication of our insect enemies.

AFFECTION OF THE WHALE FOR ITS YOUNG,

I have heard of one of these whales with a cub when driven into shoal water, being seen to swim around its young, and sometimes to embrace it with her fins, and roll over with it in the waves, evincing the tenderest maternal solicitude. Then, as if aware of the impending danger and peril of her inexperienced offspring, as the boat neared her, she would run round her call in decreasing circles, and try to decoy it seaward, showing the utmost uneasiness and anxiety. Reckoning well that the calf once struck, the dam would never desert it, the only care of the harpooner was to get near enough to bury his tremendous weapon deep in

animal darted away with its anxious dam, taking out a hundred fathoms of line. It was but a little time, however, before being checked, and the barb displaying its vitais, it turned on its back, and displaying its white belty on the surface of the water, it floated a motionless curpse. The huge dam, with an affecting maternal instinct more dain, with an allecting maternal instinct more powerful than reason, never quitted the body, till a cruel harpoon entered her own sides, then, with a single stap of her tail, she cut in two one of the boats and took to slight; but returned soon, exhausted with loss of blood, to die by her calf, evidently in her last moments, more occupied with the preservation of her young than herself.—The Waleman's Adventures in the Southern Ocean.

Agriculture.

PUTATO ROT.

Mr. DcRottermind has recently published, in the Afinerre, a maxement respecting this plague, and what he believes to be a cure for it, supporting his opinion by the fact that, by his plan, he succeeded last year in saving 42 minots of potatees. He says "the potato rot proceeds from two causes—the first, the electric state of the atmosphere, under the influence of the temperature and hygrometry of the air, acting directly upon the exterior organs of the plants, and on the coloring matter which serves the plants to respire and absorb the gases, as well as to receive the action of the solar and atmospheric fluids." The plant having thus changed the nature of its primitive organs, elaborates juice no longer limpld, but more or less sticky, of olive green or olive brown color, according to its age. The disorganization of the coloring matter, as well as of the organs of exterior tissues, takes place on the stalk and branches at different heights, and these last become clogged with a kind of viscid juice of a yellowish or dirty green color, to which is owing the disagreeable odour which is perceptible in the plant completely under the influence of the disease. The healthy sap can no longer be elaborated, and finally, a hollow tube is formed in the centre of the stem, by which the san, in a completely altered condia hollow tube is formed in the centre of the stem, by which the sap, in a completely altered condi-tion, descends and attacks the set, which then communicates the disease to all the roots. The communicates the disease to all the roots. The second cause may be found in the too general use of fresh and unfermented manure, which, in consequence of its fermentation below the surface, operating irregularly by alkalies and acids, of some strength, acting on certain parts of the enfective action, favours the formation of this kind of san which correde the tuberrules. of electrical action, savours the formation of this kind of sap, which corrodes the tubercules."

After showing the probability of this latter cause Mr. DeRottermund goes on to say:—

"The first sign of the disease is the change of

the coloring matter; and the more the disease increases, the more does the stem become yellow, with brown spots, the leaves black and withered, the tube meantime goes through the entire stem to the root, and the viscki matter is already, perhaps, at the root of the plant. In this case, it is useless to hope to save the tubercules from com. plete destruction, for the set will have been already spoiled, and will have passed the germ of the disease to all the young tubercules, which may be marked by black spots in their insides. But my opinion is, that the tubercules so attacked may serve for seed, and produce healthy potatoes, provided in sowing them the precaution is taken of cutting out the injured part, which, if left would destroy the envelope in which is lodged the fecula, which has to be changed into the nutritive principle of the plant, and which being unable to produce any new germ would destroy the rest of the individual potato. I should, therefore, recommend to persons having their potatoes attached, to-cut away the sick part, and to sow them immediately in land well prepared, in a pit, to the depth of not mote than three inches; and I am convinced that the next year they would have as good a crop as usual. If the winter were severe without snow, the potatoes should be covered with manure, no polled, and will have passed the germ of the disits ribs, which was no sooner done than the poor the potatoes should be covered with manure, no