A Strange Farmer in Our Midst, The "Bug Ranch" at Oak Ridges

By C. Fred Bodsworth in the Maclean's Magazine

dollars each, or maybe the skin of and one aquarium net. a garter snake for \$2.15? Not ina dozen preserved earthworms, bar- range from one dollar to \$50. gain price 98 cents, or a live bull- Last year Sprague Troyer collect- the rear of the lot in which rabbits frog guaranteed to be in good ed and sold about 10,000 frogs at an and white rats are reared.

of other related items for sale at Canada's strangest farm, 11 miles west of Stouffville at Oak Ridges They are not merely for sale; straner still, they are being sold, and in ful originator and owner of "Troyer university classes. Natural Science Service" is frequently four to six months behind . in filling orders.

deep streams in the middle of the salary.

The reason is that his business is together into one two-acre unit. who looks like a schoolboy and lined with hundreds of jars on and universities.

He "Cans" Salamanders

before setting out on a frog hunting expedition. He handed me what he explained was a typical order from into the insect room, stored to one of the Toronto collegiates.

earthworms for student dissection; brightly tinted butterflies and one dozen' preserved dragon-flies moths, and hundreds of beetles and for class study of external features; flies ranging from mites of pinsquash bug eggs in a vial of pre-point size to waterbugs three inches serving fluid to round out the long. collegiate's collection of insect eggs; "I'm not sure how many insects a Monarch butterfly caterpillar (the have in stock now," Troyer said. collegiate's present specimen was "Probably around 20,000. I'll have damaged last year); a mounted to add many this summer but when female crayfish carrying eggs; a I fill the fall orders I'll use a lot of collection of six mounted insects them, maybe almost half." showing protective coloration; three Next we went out to a double dozen live earthworms, a half-'garage. One room contained several dozen live crayfish, one dozen dozen glass aquariums about one dragonfly nymphs, two live milli- foot square filled with live newts, larvae and pupae, all to be reared varieties of tadpoles. The other in the school laboratory for the room had four large metal tanks. observation of life habits; a culture Two of them swarmed with minof small white carthworms to be nows, a third was a squirming mass raised at the school as aquarium of frogs, the fourth was empty. food; a unit of microscopic water "There are about 400 frogs there

janimals sufficient for 50 students; now," he said, "and we'll catch 400 10 aquarium minnows to include or 500 for the other tank before two sticklebacks and two catfish; tonight." (His advance estimate) Would you like to buy an assort- four live newts and two water was not far out. I went along on ment of snail eggs at 85 cents a snails; three bunches of water the frog hunt and kept score. The dozen, a few turtle hearts at two plants; 25 pounds of aquarium sand count at the end of the day was

health for one dollar-rates re-average price of 10 cents each. duced if larger quantities desired? Approximately half were sold alive Troyer's conscientious effort to You will find these and hundreds tories for experimental research best illustrate their courses of sells about 2,000 of them a year for something suitable, but not the best, quantities so large that the youth-the fish studies of collegiate and could be secured in a few hours.

or holds alive at his Oak Ridges the last year or two that I've been Sprague Troyer, 30-year-old self-"bug farm." Most of his collecting developing this phase of the work." trained biologist, has turned a queer trips are carried out in streams and "There isn't a lot of money in the hobby into an even queerer means woods within 15 miles of his home, business, there is just a living," he of making a living. And despite the but frequently it is necessary for says. "But I'm not in it to get rich. fact that his work has a few ad-thim to make an expedition to Lake If I wanted to do that I'd hire a mittedly unpleasant tasks like Erie in search of specimens not dozen men to do my collecting hunting down rattlesnakes to bring common in the Toronto region and while I stayed home behind my

it for anything else at double the ed as a zoo, a fish hatchery, a business. museum, an embalming parlor, the! "I think I could do it. But I'm in morgue and Noah's Ark all tossed it to improve the teaching of

talks like a college professor, his typical fruit-cellar shelves. But the any other job that would let me work is a crusade Troyer's main preserved "fruits" at a closer spend most of my time running customers are the teachers of glance turn out to be frogs, snakes, marshar" biology in Canadian high schools crayfish, insects, earthworms, salamanders and fish, all in carefully labelled jars of preserving safari and every blade of grass and fluid. I lifted the top from a barrel; It is this situation that Troyer is it was three-quarters full of clams striving to correct. I got a quick in a solution of formaldehyde. sample of the results when I sat in There were several other barrels his office a few weeks ago as he and wooden buckets. I left the tops hurried through his morning's mail, of these alone. 20,000 Dried Bugs

On the second floor I was ushered capacity with glass-topped trays This is what I read: 25 preserved containing dried specimens of

High-school orders of this type Final housing project on the Troyer bug ranch is a small barn at

and half as preserved specimens to study cuts profits still lower Somehigh schools. Another big seller is times he spends days seeking out perch. Armed with a special govern- a certain insect or animal to comment permit, Troyer catches and plete a demonstration series when

All these creatures he collects better," he says, "for they need himself and then either preserves larger quantities, but it is just in

them in alive and wading cold waist to Bruce Peninsula for rattlesnakes. desk, wearing a white collar and a His premises can best be describ- tie, and built up a coast-to-coast

biology in schools and" here more than the means of a livelihood; Two rooms in his basement are he shrugs boyishly, ".....well, I'm to this modest soft-speaking chap, lined with bundreds of jars on in it because it's fun. I don't know

Go with Troyer on a collecting ing world swarming with a life that is as foreign as Mars to the average man. With you is Frank Fog, Troyer's man Friday, and the expedition begins with a toothshaking ride across back-country

The truck stops suddenly at a roadside culvert as it terminates one of its jack-in-the-box leaps.

"What are those fish?" Troyer asks. "Suckers," says Frank Fog. "No," replies Troyer. "They're swimming too high off the bottom. Most of them are chub, but there are three or four black-nosed dace amongst them and one rainbow darter."

nosed dace and one rainbow darter. teachers that desire his services. War Among Insects

glass sides of school aquariums' year a Toronto textile firm developtanks, and when the biology teacher talks about black-nosed dace and would be repellent to clothes moths after I had been patching newts and box cars were in this country? Well, from personal observation what weren't sure. Troyer provided them came back to where I had left my and Canada has been forced to teacher is talking about.

which has several branches tests for several weeks and finally constables gathered around. They denuded of leaves by caterpillars. Troyer announces as he shows you envisioned it to be. some of the vividly colored red, black and white caterpillars, "but pretty fast."

Then, through Troyer's eyes, you are treated to a newsreel picture of

"There are many species ichneumon flies which live as parasites on the larvae of other insects," he says. "They are nature's shock would become so numerous in a year or two there wouldn't be a green leaf left anywhere. The flies lay their tiny white eggs on the logs," he will explain. "You find backs of the tussock moth cater newts, salamanders, snakes and all parasite larvae are full grown and covered it was all the same snake. number of moths," he relates. "I the moth caterpillar with much of He was 50 inches long, the biggest his innards eaten out, is dead. They garter snake ever officially recorded spin their cocoons and six days for Canada or the United States. A later emerge as adult ichneumon garter snake 36 inches long is flies. Thus, in two weeks, there is regarded as a big one. The 50-incher another generation all ready to is still alive at the Royal Ontario wage war on the tussock moth Museum of Zoology in Toronto. caterpillars that escaped the first "I've made three or four rattlegeneration of parasites.

applies here. When ichneumon flies bee." have just about wiped out the tus- Troyer's only equipment when sock moth, secondary parasites in he goes rattlesnake hunting is a the form of a smaller species of fly heavy stick and a pair of padded appear and start wiping out the leather gloves to protect his hands. ichneumon flies. Then there is a When Troyer and Mr. Rattlesnake tertiary parasite which preys on the meet he drops the stick across the secondary ones. There might even snake and then slowly moves the be a fourth parasite in the chain, stick up along the rattler's body but if there is I don't believe any-juntil its head is pinned against the one has ever discovered it."

a few dozen of the caterpillars transferred alive and uninjured to which have minute ichneumon fly a carrying cage. eggs on their backs. He will use them in a demonstration series of "I've never been bitten by a mounted insects which will illus- rattlesnake, and I don't believe I'd trate for high school and university worry very much if I were," Troyer students how the parasite war is says. "No one has officially been waged on the battle fronts of the proven to have died from the bite insect kingdom.

Rabbit Deal Along about now you will be regarded as serious, but it is far looking more closely at this slim, from critical, for our Massasaga five-foot-seven supercharge of rattlesnake is so small that it energy with the boyish brush cut possesses only a small amount of and the encyclopediac mind. And venom and its fangs are too short you will begin to understand, too, to renetrate very deeply."
why despite his youth he is sought. Most collecting of aquatic animals.

"I disillusioned a dozen different

assured them that the new textile had pulled out the seat, taken off "White-marked tussock moth," was as good as advance hopes had the engine cover and were starting to tear down the motor looking for a supercharger because they sus-Another firm was testing a new pected me of running drugs or ichneumon flies are killing them off insect repellent containing DDT. liquor. I told them my business, The tests bogged down when they but they weren't in any hurry to ran out of mosquitoes and flies. believe me. Then I showed them Troyer collected eggs and larvae the night's catch. Mud puppies look ruthless war in the midget world of from ponds and reared them several like lizards but they have exterior thousand mosquitoes in a few days. gills similar to fish. One of the con-"If those skeeters had ever gotten stables glanced into my collecting loose when I was driving through pail and shouted: 'Look, the guy's Toronto to deliver them, the been catching fish with legs! They citizens would have thought that a decided I was as queer and harmtroops; without them caterpillars new kind of bacterial war had hit less as the mud puppy. But it took me and one of the officers 15 When feed is expensive it is more

back in shape again." It required a great deal more pillars. Nature works fast and the manner of insects that way. Once I explaining to clear himself when Master Laying Mash is proven. eggs hatch within a few hours. rolled over a log and saw what two cruiser officers spotted Troyer Maple Leaf Feeds. Then the ichneumon larvae, some appeared to be two large garter late one night with a ladder up to times 15 of them on a single cater snakes underneath. I grabbed the the second-floor window of a North pillar start burrowing into the moth larvae. In three or four days the but when I picked them up I dis- of lights up there that attract large. Insulated Siding, B.C. Shingles.

arrived and had a firm grip on me, movements along the stream bed— save some time each summer to ing and in darkness they are easier the net and the ladder before I had movements which to your unprac- spend instructing teachers at sum- to catch. But Troyer's biggest head- been there three minutes. Half a ticed eye might be anything from mer nature schools and he is a ache on these midnight jaunts is not dozen different credentials and half tadpoles to sea serpents. Troyer and frequent leader of springtime finding his way in the dark—it is an hour of arguing failed to convince them that I was collecting only the storekeeper's moths. Finally I had to telephone the principal of one of the collegiates before they turned me loose."

Remember when Canada's hand was forced by United States officials rainbow darters his class will know and carpet beetle larvae. But they mud puppies in Grenadier Pond I now the shoe is on the other foot with a few hundred ravenous cloth- truck in High Park to find two demand that U.S. return 5,000 box Your next stop is beside a tree eating insect larvae, superintended police cruisers and half a dozen cars to Canadian lines to haul grain from western Canada to the head of the lakes before the freeze-up .

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You look, but, strain your eyes as as a nature camp leader and natural has to be done at night, for it is net and a stepladder. The police you may, you see only a few darting science speaker. Troyer tries to then that they are most active feed-Fog whip out a seine net and a nature hikes around Toronto. Dur- explaining his queer mission to minute later the truck will be ing the fall and winter he is a popu- police officers who usually turn up pedes and a bottle of mosquito salamanders, turtles and numerous bouncing on again. The score for lar speaker, rarely turning down an just in time to frighten away the the first stop: 12 chub, four black- engagement when it is a group of night's rarest specimen.

War Among Insects
Two months later these fish will on in the insect kingdom has various times during the war when be bumping their noses against the SOS calls from odd places. Last I convinced them that I wasn't out

Chasing Rattlers them," he says.

"A lot of little critters live under minutes to get the truck motor

snake collecting trips to Bruce "But it isn't always easy pickings Peninsula and I've caught a couple for the ichneumon flies, because of dozen rattlers by hand," he says, they have parasites too,"Troyer con- telling it casually. "The rattler, you tinues. "You know the verse-Big know, is overrated; after you befleas have little fleas upon their come experienced and know their backs to bite 'em: little fleas have habits they are not much more lesser fleas, and so infinitum.' It vicious to tangle with than a honey

ground. Then the serpent can safely Before moving on, Troyer collects be grasped just behind its head and

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