

obviously accounted for such swarms. Finally came a long period of drought where the pests were very scarce in town. One afternoon I was hunting in a neighboring well-drained field when at my great surprise, I was followed by a few dozens of mosquitoes. These seemed to come from the thick bushes efficiently used as fence in that particular zone of the country. In fact, the bush is constituted by a densely growing herb called "Pingouin" by the natives. We identified

it as being the *Bromelia pinguin* L. of the Bromeliaceae family. Each leaf makes a cup at the place where it meets the stem and the dew accumulates there forming a well shaded and secluded ideal breeding basin.

"I am going to advise the Public Health Administration here so that a campaign may be initiated against this natural ally of the mosquito, in its unceasing fight towards human health."

(Signed) LEON DALENCOUR

THE PLUMBER'S NIGHTMARE "GROWS UP" AND NOW HAS A "COLT"

(An example of the far-reaching influence of Mosquito News, and of the desirability of publishing descriptions of your own new ideas for which someone likewise may be waiting.—*Editor's note.*)

Ted Raley, manager of California's Consolidated MAD recently received the following letter:

Dear Sir:

Thinking that you would be interested in some of the uses that have been made of the "Plumber's Nightmare" described by you in Vol. 7, No. 2 of Mosquito News, I am forwarding pictures and information. When Dr. Reeves came to this station in connection with an investigation of possible encephalitis here on Guam, he brought along a copy of the above mentioned Mosquito News. A more timely article could not have been obtained as we were doing everything we could to control adult mosquitoes, using "Fogging Jeeps," with very poor success. We had used two methods of DDT aerosol generation and neither was successful.

Here on the Medical Center, an area of several hundred acres, about $\frac{2}{3}$ is jungle, we have a rather unique control problem. The species of mosquito which is most abundant is *Aedes pandanii*, which breeds in the axils of the Pandanus bush and tree. These grow profusely in

jungle areas that are inaccessible to any type of spray rig, making it necessary to practice adult control which you know is the hard way of controlling mosquitoes.

The first "Plumber's Nightmare" was used on a jeep with excellent results, followed by installation on a second. Due to the worn-out condition of the jeeps they lasted a couple of months as "foggers." As far as we could determine, the installation of the venturis did not hasten the wearing. We next installed a venturi on a 115 H.P. 6 x 6 engine set on a trailer, this one was really a honey, gave excellent results. We used 2 inch pipe with a 1 inch venturi, putting out about 55 gallons of 10% DDT per hour. This motor also gave up, timing chain troubles, no replacements. At the present, we have a weapons carrier that is giving good results, both in larval and adult control.

We were able to control flies in the galleys in areas that could be hit by the aerosol but since we could not get overall coverage, using the vehicles, the kill was not as complete as was desired. With this in mind we decided to do a little experimenting. We took a one cylinder

motor, used $\frac{3}{4}$ inch pipe with a $\frac{3}{8}$ inch venturi, installed a tank and placed the entire rig on a small two-wheel cart that could be rolled in and out of buildings with ease. Using a 10% solution of DDT in diesel oil and xylene we believe we are getting a 100% knockdown on flies in the galley, mess-halls, and wards where it is being used. As you mentioned in your article, there seems to be no residual value from the aerosol, but the contact kill is excellent. The venturi rig uses about 2 gallons of solution per hour. So far, we have received no complaints, only favorable comment on the absence of flies. Incidentally, the rig is rather spectacular looking and draws favorable publicity—no hindrance at all in accomplishing our job.

I noticed in the concluding paragraph of your article that you intend to continue

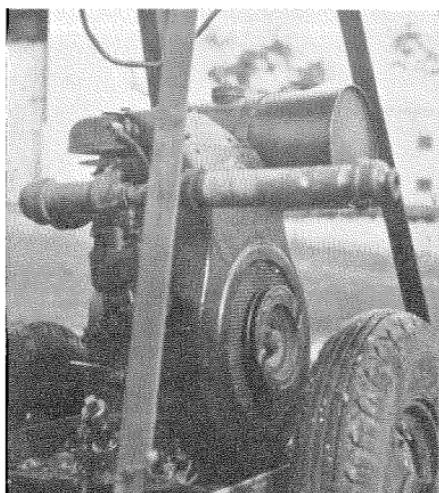
research into the effectiveness of the aerosol generator, any new information as to uses and performances that you have obtained would be greatly appreciated. We feel that this method of DDT dispersal is the best suited for the control problems found on this base. If there are any questions I might answer in regards to the performance of the "Plumber's Nightmare" under tropical conditions, I will be more than happy to do so.

Yours truly

(Signed) RALPH CROWE, HMC, USN

In a recent note dated July 15, Mr. Crowe said that he has been transferred to San Francisco, where he hopes to have an opportunity to talk to Mr. Raley. We shall undoubtedly learn more about his experiences via MOSQUITO NEWS.

H. L. T.



The "Colt"
"The Plumber's Nightmare—has a Colt"