

centration and running sequential or partial treatments, it was possible to run all of the tests shown in table 1 with the three dispensers.

Table 1 summarizes the test results. Exposure periods of 5 to 25 minutes were more effective in causing larval detachment than periods of several hours or more. Exposure periods longer than three hours were progressively less effective so that a dosage that caused 90 percent of the larvae to detach when applied over a period of 15-20 minutes was almost entirely ineffective when applied over a period of 12 hours. These results support the belief of Hocking *et al.* (1949) that "concentration X time = a constant" for short exposure periods at high concentrations, but indicate that this is not the case for longer exposures at low concentrations.

References Cited

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ANNOUNCEMENT OF RETIREMENT

Mr. W. C. McDuffie, Chief of the Insects Affecting Man and Animals Research Branch, Agricultural Research Service, U. S. Dept. of Agric. is retiring effective December 30, after over 35 years' Federal service.

Mr. McDuffie began his Federal service with the Cotton Insects Division, Pink Bollworm Investigations, Presidio, Texas, in the summer of 1931, after receiving his B.S. Degree at Mississippi State University that Spring. He worked for the Cereal and Forage Insect Division, and was Station Leader of the Legume Weevil Investigations at Yuma, Arizona, in 1942 when he was transferred to the Insects Affecting Man and Animals Division, New Smyrna Beach, Florida. From 1943 to 1945 he served his country as Lt. and Captain in the U. S. Army Sanitary Corps in Orlando, Fla., Panama and New Guinea. He returned to the Insects Affecting Man and Animals Division after this tour of duty in 1945 at Orlando, Fla., and in 1946, served in Kerrville, Texas and Churchill, Canada, on research on control of ticks affecting livestock and mosquitoes in Arctic areas. In 1948 he returned to Orlando, Fla., where he remained until 1954, advancing from Assistant Station Leader to Station Leader. In 1954 he was transferred to Beltsville as Assistant Branch Chief and was promoted to Branch Chief in 1962. Mr. McDuffie has served the Branch, Division and Department in an outstanding manner.—(From a memorandum by E. F. Knipling dated Nov. 17, 1966.)

Mr. McDuffie has been Associate Editor of Mosquito News (Articles Section) for the past ten years.