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A Theoretical Analysis of Downwind Drift of Herbicide Sprayed From an Aircraft

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by

Mr. S.N. Blumenfeld Office of the Science Advisor Military Assistance Command, Vietnam

4 April 1968

The problem of drift of herbicide released from an aircraft treated shearstically herein. The parameters of release are an titude at form (162.5 ft), a windspeed of 10 knots (11.5 mph), a neutral perperature gradient. Two hypothetical distributions of ticle size are postulated, both statistically normal and centering median are of 200 microns. In the first case, the major fractions when instributed over a fairly narrow size range of all the particles fall within 300 ± 100 microns. In the secon case, the particles are distributed more widely: 68% of the particles fall provides are distributed more widely: 68% of the particles fall within 300 ± 100 microfs.

The goal of the analysis is the determination of the percenter of released event which drifts various distances downwind of the release line. This is done in stepwise fashion, starting from an analy ysis of the distribution of particle size by percentage within 50micros categories for each postulated distribution. The rate of call of particles in each of the categories is calculated, and from the set Bata downwind drift is determined. Next, the percentage of total pertruit mass failing in each size range is developed. and this lead directly to the desired information on the percentage of agent out put which drifte varying distances downwind. These data, developed for the general case, can easily be employed to ascertain the ground of acout at any point downwind for any initial concern woraft. For example, in the biom of agent of 3 gal/acre it acre will be produced some 262 m CONCERTANT 1003 gal/acre some 348 m (1131 f iowavibd. Smaller anowers of agent will drift even further and . while and thermals, "hot spots", concentrations of agent go

then that over the second area are also likely to be formed.

can only interaction of the substituted for real testing of the problem of drift. It can not be substituted for real testing of the equipment activity of the substituted for real testing of the operational states of the substituted tests can reasonably assure verity in the final evaluation of this problem.

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