MEMORANDUM

SUBJECT: Malathion Exposure Data Gaps (Subpart U Reregistration).

TO: Flora Chow
Science Analysis and Coordination Branch
Health Effects Division (H7509C)

FROM: Mark I. Dow
Special Review and Registration Section
Occupational and Residential Exposure Branch
Health Effects Division (H7509C)

THRU: Curt Lunchick, Section Head
Special Review and Registration Section
Occupational and Residential Exposure Branch
Health Effects Division (H7509C)

THRU: Charles L. Trichilo, Ph.D., Chief
Occupational and Residential Exposure Branch
Health Effects Division (H7509C)

The Occupational and Residential Exposure Branch (OREB)/HED has reviewed the "LUSIS Printout of Registered Uses of Malathion" (18 DEC 85: Rev 6 JAN 88). The review was done to determine the use sites that would be subject to the provisions of "Pesticide Assessment Guidelines Subdivision U", as they regard data gaps relative to reregistration. The attached list indicates the use sites that will require exposure studies per Subdivision U.

Exposure studies will be required for each formulation registered for the Use Sites identified on the attached list. Fifteen replicates are recommended for each job function (Applicator, mixer/loader) and site/formulation combination.
REPRESENTATIVE EXPOSURE DATA GAPS

FORAGE CROPS---applied by air, mistblower, ground broadcast mixing/loading of D., WP., EC., SC/L., RTU.

TREE FRUITS & NUTS---applied by airblast, hand held spray, backpack mixing/loading of WP., EC., SC/L., RTU., PrL.

NOTE: Applications to mature trees separate from "nursery stock".

PINEAPPLE---applied by air, airblast mixing/loading of WP., EC.

TROPICAL FRUITS AND NUTS---applied by airblast, hand held spray, backpack mixing/loading of WP., EC., SC/L.

"BUSH" BERRIES/OTHER FRUIT---applied by airblast, ground boom for any of the fruits and broadcast for strawberries.

mixing/loading of D., WP., EC., SC/L., RTU.

MELONS/SQUASH---applied by mistblower mixing/loading of WP., EC.

GRAIN---applied by air mixing/loading of WP., EC., SC/L., RTU.

GRAPE---applied by airblast, root dip mixing/loading of WP., EC., SC/L., RTU.

VEGETABLES---

Dandelion---applied by broadcast mixing/loading of D., WP., EC.

Mushroom---applied by hand held spray mixing/loading of WP., EC.

Watercress---applied by hand held spray, backpack mixing/loading of WP., EC.

GREENHOUSE---applied by hand held spray, green house fog mixing/loading of WP., EC., RTU.

NOTE: D=dust, G=granule, EC=emulsifiable concentrate, WP=wetable powder, SC/L=soluble concentrate/liquid, PrL=pressurized liquid, RTU=ready-to-use