

P.O. BOX 5500,  
MONTREAL, P.Q., CANADA

June 28, 1966

Mr. D.J. Wood,  
Research & Development Establishment,  
Regent's Park Road,  
Southampton, England

Dear Jeremy,

Thank you for your letter of June 24th concerning Endrin.

The amount of Endrin on the tobacco was determined by the Entomological Laboratory of the Canada Department of Agriculture in Chatham and was found to be 1.37 p.p.m. We do not have a formal report from them giving methods of analyses.

The amount of Endrin found in the mainstream smoke of cigarettes made with this tobacco averaged out to 0.125 µgm. per 51 mms. smoked of a 74 mm. cigarette. I am enclosing a copy of the reports from the Ontario Research Foundation giving their methods and results. As you will see, the report was prepared in three stages, the third stage being a repeat at our request.

We received last week a memorandum from Dr. Houghton of the Canada Department of Agriculture, giving his observations of the meeting and clarifying the figures concerning the transfer of Endrin to the mainstream smoke and the amount expected to be retained. This report also lists the established threshold limits in air for various insecticides and shows that you are quite right concerning DDT having a threshold limit of 1.0 mg/m<sup>3</sup> instead of 0.1 mg/m<sup>3</sup> given in my report. The error probably arose from my taking down figures at the meeting. Dr. Houghton's report is quite interesting and I am enclosing a copy for you, but I would suggest that it be considered as confidential. He now shows the transfer of Endrin from tobacco to the mainstream smoke at 17% which I presume he took from Bowery & Guthry's paper presented to the Tobacco Workers' Conference at Athens, Georgia, in 1958. He concludes, as before, that a cigarette smoker is subjected to about 3% of the acceptable dose established as the Threshold Limit Value. Although he mentions that the Shell Chemical Company assert that 80% of the foreign materials inhaled are exhaled, he has assumed 100% inhalation. I would guess that the Shell figure of 20% innalation is too low when dealing with cigarette smoke.

With best regards.

Yours sincerely,

*R.S. Wade*  
R.S. Wade, MANAGER  
RESEARCH, DEVELOPMENT &  
TECHNICAL SERVICES

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encls.

Research & Development	
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