

November 25, 1980

Project No. T-0447

Ageing Experiment on Ridomil Treated Tobacco

Object: To monitor, at various intervals, the levels of Ridomil residues in stored tobacco over a storage period of two years duration.

Tobacco Selection Procedure: Three grades of flue cured tobacco (possibly D2, GC1, and CF2) representing the lower, middle and upper stalk positions respectively will be used for this study. Over a period of a few weeks of processing at Aylmer five cases of each grade will be selected more or less at random, appropriately labelled and stored under normal conditions, 4-5 cases high, in the warehouse. (It is assumed that at least 95% of Ontario tobacco was treated with Ridomil in 1980).

Control (not Ridomil-treated) tobacco of the same grades will be selected from the Nova Scotia crop when processed at Aylmer. The same number of cases from the same N.S. grades will be selected, appropriately labelled, and stored in the same area as the treated tobacco.

Sampling Procedure for Residue Analysis: At time 0, 6, 12, 18 and 24 months, auger samples will be withdrawn from all 5 cases of the six stored grades. The auger samples from the five cases will be blended together after ensuring that each case contributes equal weights to the final blended sample. Over the two year period a total of 30 individual sample blends will result. (Other time intervals which might be considered instead are 0, 12, 24 months or 0, 6, 12, 24 month:

In addition to the above mentioned 30 samples, additional samples are to be prepared by blending equal portions of the three grades (stalk positions) to provide a single Ridomil-treated sample and a single control at each time period. Each final blended sample must be at least 200 mg, and if samples are sent to two analysts (GR & DC and Ciba Geigy) 400 gms per sampling period would be required. Over 5 sampling periods this would provide 10 samples which is equivalent to the number which Ciba Geigy have volunteered to analyse, and the results should provide a good picture of how Ridomil residues change during ageing.

At this time, more details have to be worked out concerning the number of samples that may be analysed at GR & DC, but at each sampling period further instructions will be issued.

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