

FROM/DE A.P. SCHAFFER

GROUP R & D CENTRE

10 JUN 1975

TO/A MR. R.M. GIBB

May 26, 1975

OIL/WATER PARTITIONING

I would suggest that the samples of cigarettes for this project be made from the 1974 Ontario crop samples which will be run in the Pilot Plant in the next few weeks. If this delay is unacceptable, fresh cigarettes should be made from 1973 Ontario Crop.

Limiting ourselves to six (6) grades means leaving out some very interesting possibilities. However, within this limitation the grade selection is as follows:

FS3 - 1974 Ontario crop

T.A. 1.69% R.S. 5.0% Plant position 1 (Lugs)

This grade is from the trashy filler group. It is typically quite blemished with a considerable amount of dead lamina. The tobacco has an earthy nose. This is reflected in the smoking characteristics. The taste is somewhat "dirty" although at a fairly low taste level. In general it is a low impact, low taste level smoke.

D - 1974 Ontario crop

T.A. 1.59% R.S. 15.1% Plant position 1 (Lugs)

This grade is the blandest, mildest smoking grade from the Ontario crop with low impact, low irritation and low taste level.

AFX - 1974 Ontario crop

T.A. 2.16% R.S. 21.0% Plant position 4 (Leaf)

This grade is thought of as a fairly mild leaf grade. It is the milder of the two grades in the mature leaf group. This grade comes from mid-stalk or just above mid-stalk. As a smoke it has medium impact, medium to medium-low irritation and medium taste level. The taste character is described in words such as "clean", "bright", "mellow", "good", etc. This is one of the few grades that has smoking characteristics which approaches the acceptability of a normal blend of grades.

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BF3 - 1974 Ontario crop

T.A. 3.08% R.S. 18.5% Plant position 5 (Tips)

Grade BF3 is the most mature grade from the top of the plant. It is a heavy bodied tobacco with a strong rich nose. We consider it a strong flavour grade. The smoke is high impact, high flavour level and high irritation. The irritation is however reasonable considering the overall "strength" of the grade.

BFL - 1974 Ontario crop

T.A. 2.04% R.S. 11.3% Plant position 1, 2, 3

Blend of green grades from lugs, cutters and cutter-leaf (grades CFL, BFL and CLG) which are blended together for the sake of convenience. The smoke from this blend is fairly irritating with a typical green taste and aroma.

OF-4 - 1974 Ontario crop

T.A. 2.49% R.S. 20.3% Plant position 4 and 5
(leaf and tips)

This blend consists of the green grades (BF, CF, BF2G, CF2G) from the upper part of the plant. Excluded from the blend are the very coarse, crude tips which we do not buy. The nose of this tobacco is generally sharp. The smoke is quite irritating with a sidestream aroma that is quite distinctive and is usually described as foul. It is interesting that this sidestream is usually more noticeable to the bystander than to the person smoking. This tobacco is also different physically. Both strips and cut rag feel very soft or more precisely softer than other grades with similar reducing sugar and equilibrium moisture levels.

The above comments would apply to the same grades for other crop years unless for some reason a particular crop year had markedly different characteristics because of very abnormal conditions.

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If this technique proves useful for quantifying the factors which are reflected in taste and flavour and irritation perception it would of course be interesting to do a greater range of grades along with PCL and CRS. CRS is of course particularly interesting because of its high irritation. Also interesting from an irritation point of view is the effect of ageing. If this technique showed any promise of being able to measure the effect of ageing it would be quite a breakthrough.

C.P. S. Candlish

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c.c. Mr. S.M. Candlish.

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