

RESULTS OF THE FOURTH COLLABORATIVE SMOKING TEST - (MAY 1973)1. Comparison of analytical averages.

<u>Lab.</u>	<u>Weight</u> <u>gms</u>	<u>Pressure Drop</u> <u>mm.</u>	<u>Number</u> <u>of Puffs</u>	<u>Wet TPM</u> <u>mgms</u>	<u>Water</u> <u>mgms</u>	<u>Dry TPM</u> <u>mgms</u>	<u>Nicotine</u> <u>mgms</u>
<u>DETERMINATION OF WATER BY GRAVIMETRY</u>							
1	4.80	80 @ 17.5	57	32.4	3.4	29.0	-
2	4.70	75 @ 17.5	56	33.5	3.5	30.1	-
3	4.58	85 @ 17.5	52	37.9	3.6	35.0	-
4	-	-	-	39.4	3.9	35.5	-
5	-	-	-	31.3	5.1	26.2	-
6 *	4.77	58 @ 13.3	60	32.3	5.3	27.0	-

DETERMINATION OF WATER BY KARL FISCHER OR GAS CHROMATOGRAPHY

1	4.73	82 @ 17.5	57	34.0	3.0	30.9	1.51
2	4.70	75 @ 17.5	56	33.4	2.6	30.8	1.92
3	4.58	85 @ 17.5	52	37.9	1.7	37.0	1.38
4	4.72	-	55	36.0	1.07	34.9	1.44
5	-	-	-	40.05	3.36	36.69	1.96
6 *	4.81	58 @ 13.3	60	30.4	2.3	28.1	1.22
7	4.74	60 @ 13.3	54	34.2	1.0	33.3	1.35

\* electrostatic smoke trap

2. Comparison of Standard Deviations.

<u>Lab.</u>	<u>Number of</u> <u>Cigars</u> <u>Smoked</u>	<u>Wet TPM</u> <u>mgms</u> <u>S</u>	<u>Water</u> <u>mgms</u> <u>S</u>	<u>Dry TPM</u> <u>mgms</u> <u>S</u>	<u>Nicotine</u> <u>mgms</u> <u>S</u>
<u>WATER BY GRAVIMETRY</u>					
1	26	4.2	0.7	3.9	-
2	24	4.6	1.09	3.9	-
3	36	5.3	1.2 (12)	5.3 (12)	-
4	12	6.4	1.39	6.1	-
<u>WATER BY KARL FISCHER OR GAS CHROMATOGRAPHY</u>					
1	G.C. 26	4.4	1.4	4.4	0.42
2	K.F. 24	3.2	1.18	2.8	0.22
3	G.C. 36	5.3	1.9 (12)	3.1 (12)	0.28 (12)

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3. Collaborative water determination - Comparison of analytical averages.

<u>Lab.</u>	<u>Method</u>	<u>LOW</u>	<u>MEDIUM</u>	<u>HIGH</u>
		<u>0.76 mg water added.</u>	<u>1.11 mg water added</u>	<u>1.52 mg water added</u>
1	K.F.	1.10	1.41	1.91
2	K.F.	1.08	1.45	1.90
3	K.F.	1.09	1.42	1.93
4	K.F.	1.10	1.41	1.82
5 *	G.C.	1.20	1.48	1.92
6 *	G.C.	0.76	1.11	1.63

\* Results for Labs. 5 and 6 are not comparable to other results, owing to the fact that they had no standard, using the same solvent, for calibration of G.C. method.

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