

1962

Collaborator Number 23

REPORT ON POTASSIUM ANALYSES

Sample Number	% K ₂ O		
	1	2	Ave.
1	10.72	10.85	10.79
2	6.64	6.80	6.72
3	5.87	5.57	5.72
4	3.78	3.73	3.78
5	5.44	5.18	5.31
6	5.56	6.55	6.56

Do you prefer reporting potassium results as % K X or
% K₂O _____? Please check.

Comments: The Flame Photometer Attachment to the Bechman Model DU Spectrophotometer was employed for these measurements. Unfortunately, due to the malfunctioning of this instrument at an inconvenient time it was necessary to permit the tobacco extract solutions to stand 5 days prior to making the readings. The solutions, however, were stored in polyethylene bottles during this period.

The calibration curve was linear in the range of 0-15 p.p.m. but beyond this concentration there was a slight (but linear) upward deflection which is typical of the calibration normally attained by this laboratory. All readings, with the exception of those made on the extract of sample 1, were made on the 0-15 p.p.m. linear portion of the curve. Two additional standard solutions containing 5 p.p.m. and 15 p.p.m. were used in the calibration.

100086869