APPENDIX: STATISTICAL ANALYSIS

This is an analysis of the relation between taxpayer age and income tax deductions for personal-pension contributions under the Canada Registered Retirement Saving Plan, 1964. All tests are significant at the 1 percent level. Dollar Registered Retirement Saving Contributions (S) is related to taxpayer assessable (adjusted gross) income (Y); Taxpayer age (A):

(a) Total all participants: 90,585.
Random sample size: 22,258 records.

$$\begin{aligned} S &= a_o + b_1 Y + b_2 A \\ &= -31.29 + \underset{(0.0004)}{0.05Y} + \underset{(0.22)}{1.10A}. \end{aligned}$$

Mult. corr. coefficient 0.667; F value, 3895.

(b) Total Employee Participants: 58,481.
Random sample: 7,934 records.

$$S = 128.08 + \underset{(0.0006)}{0.05Y} + \underset{(0.56)}{2.78A}.$$

Mult. corr. coefficient, 0.654; F value, 2967.

(c) Total Self-Employed Professional (Occupation) Particiɒants:
1964: Random Sample: 10,409 records.

$$S = 39.35 = \underset{(0.0005)}{0.04Y} = \underset{(0.09)}{0.51\mathrm{A}}.$$

Mult. corr. coefficient, 0.614; F value 3142.