

Tutorial topic 8, Simple and Multiple linear regression

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Objectives

- Review calculating (i) ANOVA table of a simple linear regression model (ii) the correlation coefficient;
- Learn to interpret correlation matrix to identify useful predictor variables;
- Learn to calculate regression parameters for a multiple linear regression model.

EXERCISE 1 – REVIEW: FITTING REGRESSION PARAMETERS & ASSESSING SIGNIFICANCE OF A SIMPLE LINEAR REGRESSION MODEL

The number of horses on Canadian farms appeared to decrease after the war:

Year	1944	1945	1946	1947	1948
horses.100.000	28	26	22	20	19