

APPLICATIONS TREND LINEAR FORECASTING USING TOTAL ANNUAL PRODUCTION TURBO PASCAL PROGRAMMING LANGUAGE

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Abstract:

Linear trend is one method to make predictions of annual production. With this method can dperkirakan total production for the coming year. Production data for previous years were analyzed by calculating the trend values in each year. For that value can be used with this trend linear trend equation, namely:

$$Y_t = a + bt$$

Where: Y_t = Total production of goods (in thousands of units)

a = Constant

b = Coefficient

t = t Years

The value of a (constant) and b (coefficient) was first found using the formula. From the linear trend equation obtained calculated value of production per year trend by entering the value of coding each year in the linear trend equation. To predict the total production of goods in advance of next year searchable presenrase value than the trend (SR) each year by using the formula:

$$\text{Percent rather than trend} = Y_i / Y_t \times 100\%$$

Then count the number of SR and SR average. Using the average value of SR into the linear equation, it can be predicted rend production next year, namely:

$$Y_t = (a + bt) * \text{average SR}$$

Bibliography: 5 (1991 - 1999)