Harmon Foods Harvard Case Solution & Analysis



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OBJECTIVE:

To help John MacIntyre forecast the sales of Treat in the Breakfast Food Division of Harmon Food Inc. in order to have:

- Accurate Schedules
- Effective Advertising Expenditures
- Precise Budgeting
- Careful Promotion Usage

Calculate Consumer Allowance: Consumer Packs*0.2*24

Found Lag 1 AND Lag 2 for each promotional usage- Consumer Allowance and Dealer Allowance.

Also used the sale's percentage per week as weights for both consumer and dealer allowance.

Conducted Various Regression Models:

- Regression with account for Weights
- Regression with Lags.
- Regression with both Weights and Lags.
- Regression by Deseasonalizing Data.

Tested each Regression line using:

- Root Mean Square Error
- R squared and multiple R
- T-value and P-value
- Confidence Intervals

SOLUTIONII

We found the Best Regression Line to be the Lag 1 for the Consumer Allowance and Lag 2 for Dealer Allowance:

Y= -80183.45+1084.63t+0.084X1+0.068X2 -0.045X3-0.017X4+391089.75Z

- T= Time in months from (Jan-84)
- X1= Consumer Allowance
- X2= Dealer Allowance
- X3= Lag 1 Consumer Allowance
- X4= Lag 2 Dealer Allowance
- Z= Seasonal Index