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List of abbreviations

CP	Crude Protein
ME	Metabolizable Energy
CF	Crude Fibre
EE	Ether Extracts
DM	Dry matter
%	Percentage
Kcal	Kilocalorie
sqft	Square feet
g	Gram
ca	Calcium
P	Phosphorus
DOC	Day Old Chick

ABSTRACT

The present study was conducted on commercial Cobb 500 broiler and commercial Shever 579 and Hiline brown layer strain to ascertain the effect of different types of feed on growth performance of commercial broiler and to know the egg production performance and to predict the egg production in different farms of patiya, Chittagong using mathematical equations. The commercial broiler Cobb500 was found in average maximum weight 1450g at 24 to28 days of market age, which was really profitable and found to bear high correlation between feed intake and live weight of commercial broiler. Besides, the egg production of commercial layer Shever579 and Hiline Brown were predicted by using linear regression, logarithm equation and mixed type model function. The actual yield (82.81) was somewhat higher than the average predicted yield (80.30). Fit statistic co-efficient of determination (R^2) was used to compare the model performance and difference between actual and predicted values. The lower R^2 indicated higher difference between the predicted and actual egg production. The differences might be due to small number of data or management problem or problem in record keeping by farm owner. However, this study might be helpful in reducing the cost for record keeping through an estimate on the total number of egg produced.