

Experiment-5:

Preparation of Artificial Feeds Using locally Available Feed Ingredients

Introduction:

To formulate an aqua feed, the proximate composition of each ingredient that constitutes the aqua feed should be known. Pearson's square method is used when only two ingredients are used. Double Pearson's square method is used when more than two ingredients are used.

Materials required:

Locally available feed ingredients

Procedure:

For Pearson's Square Method write the requirements of nutrition in the square as below mention fashion:

1. Percentage of protein needed in the feed ration
2. Percentage of crude protein in protein supplement in the upper left corner should be placed in the corner of the square.
3. Percentage of crude protein in the basal feed should be placed in the lower left corner.
4. Connect the diagonal corners of square with lines
5. Then, subtract diagonally across the square preferably larger to smaller
6. Place the answer in the opposite corner
7. Now, add the figures in the right side corner of the square
8. Find out relative percentage of inclusion from the total values

For Double Pearson's Square Method write the requirements of nutrition in the square as below mention fashion:

1. Group the ingredients into two broad categories viz., less than 20 per cent crude protein and more than 20 per cent crude protein and take average value.

2. Put the average in the two left corner of the square (average of greater than 20 percentage in the upper left corner of the square and average of less than 20 percentage in the lower left corner of the square)
3. Connect the diagonal corners of square with lines
4. Then, subtract diagonally across the square preferably larger to smaller
5. Place the answer in the opposite corner
6. Now, add the figures in the right side corner of the square
7. Find out relative percentage of inclusion from the total values

Calculation: