ENGLISH 10
Materials and Methods Section
for a **Research Proposal**

II.   MATERIALS AND METHODS (Style A): LISTED MATS AND METHODS

A.   Materials
1. 45 egg-type and 45 meat-type Tsaiya ducks
2. layer rations (sub-optimum, optimum and commercial)
3. spring balance
4. Autogram scale
5. egg shell micrometer
6. yolk separator
7. La Roche color fan scale

B.   Methods
1. Stocks consisting of 45 egg-types and 45 meat-type Tsaiya ducks will be produced from hatching eggs purchased from JBB Farms in Sta. Cruz, Laguna.
2. At about 18 weeks of age, each of the two types of Tsaiya ducks will be divided into three groups, then transferred to ducklaying houses.
3. The six groups will then be given the dietary treatments: sub-optimum (11.0%), optimum (14.5%), and commercial (18%) making six treatment combinations (TC).
4. Each of the six TCs will be replicated three times with five ducks per replication with each replication consisting of four females and one male.
5. The experimental ducks will be fed *ad libitum* and water will be made available at all times.
6. Identical management practices will be provided to the experimental ducks throughout the duration of the study.
7. The relative proportion and nutrient composition of the experimental diets are presented in Table 1.
8. Data to be gathered will consist of egg production, body weight, feed consumption, feed efficiency, egg weight, shell thickness, yolk weight, and yolk color score.
9. The egg production of each replication will be recorded daily and percentage egg production will be computed on a hen-day basis.
10. The monthly consumption of each replication will be computed by dividing the total feed consumption by the total weight of eggs produced.
11. The body weight of each duck will be measured through the use of spring balance.
12. The weight of the individual eggs of every replication will be measured daily with the use of an Autogram scale.
13. Egg quality determination will be done at the end of each four-week period using a three-day egg collection.
14. Shell thickness will be determined by averaging measurements on tip, butt and middle portions of the shell using an egg shell micrometer.
15. The yolk of the broken egg will be separated from the albumen through the use of a yolk separator.

16. The yolk will be weighed using the Autogram scale.
17. Yolk color will be determined through the use of a La Roche color fan scale.
18. The data on egg production, egg weight and egg quality characteristics will be computed for means and analyzed using the analysis of variance (ANOVA) in a 2 x 3 factorial completely randomized design (CRD) with type and diet as factors…
19. Means will be compared using the DMRT (Duncan's Multiple Range Test) (Gomez and Gomez, 1984).

    C.   Detailed Schedule of Activities

Date   Activity   Place/s

II.   MATERIALS AND METHODS (Style B): MATS LISTED WITH METHODS IN PARAGRAPH FORM

    A.   Materials
        1. 45 egg-type and 45 meat-type Tsaiya ducks
        2. layer rations (sub-optimum, optimum and commercial)
        3. spring balance
        4. Autogram scale
        5. egg shell micrometer
        6. yolk separator
        7. La Roche color fan scale

    B.   Methods

        A total of 45 egg-type and 45 meat-type Tsaiya ducks will be used in this study. This stocks will be produced from hatching eggs purchased from JBB Farms in Sta. Cruz, Laguna. At about 18 weeks of age, each of the two types of Tsaiya ducks will be divided into three groups, transferred to duck laying houses and then given the following dietary treatments: …
        Yolk color score will be determined through the use of La Roche color fan scale.

    C.   Statistical Analysis

        The data on egg production, egg weight, feed consumption, feed efficiency, body weight, and egg quality characteristics will be computed for means and analyzed using the analysis of variance (ANOVA) in a 2 x 3 factorial completely randomized design (CRD) with type and diet as factors…
        Means will be compared using the DMRT (Duncan's Multiple Range Test (Gomez and Gomez, 1984).

    D.   Detailed Schedule of Activities

Date   Activity Place/s

II.   MATERIALS AND METHODS (Style C)

A total of 45 egg-type and 45 meat-type Tsaiya ducks will be used in this study. These stocks will be produced from hatching eggs purchased from JBB Farms in Sta. Cruz, Laguna. At about 18 weeks of age, each of the two types of Tsaiya ducks will be divided into three treatment groups, transferred to duck laying houses and then given the following dietary treatments… Yolk color will be determined through the use of a La Roche color fan scale.

The data on egg production, egg weight, feed consumption, feed efficiency, body weight and egg quality characteristics will be computed for means and analyzed using the analysis of variance (ANOVA) in a 2 x 3 factorial completely randomized design (CRD) with type and diet as factors.

Means will be compared using the DMRT…

Detailed Schedule of Activities

Date   Activity   Place/s

II.   MATERIALS AND METHODS (Style D): LISTED ITEM TO BE DESCRIBED IN PARAGRAPHS

A.   Population

The population will consist of all families of Barangay Maganda, Town, Province, whose main source of livelihood is fishing.

B.   Sample Size

A sample size of 25 percent of the population will be obtained through the simple random sampling.

C.   Respondents

Both the husband and the wife will serve as respondents for each family.

D.   Collection of Data

The personal face-to-face interview will be conducted among the respondents using a pre-tested questionnaire (a copy is appended).

E.   Detailed Schedule of Activities

Date   Activity   Place

For a REPORT

MATERIALS AND METHODS

A.   A total of 45 egg-type and 45 meat-type Tsaiya ducks were used in this study. These stocks were produced from hatching eggs purchased from the JBB Farms in Sta. Cruz, Laguna. At about 18 weeks of age, each of the two

types of Tsaiya ducks were divided into three groups, transferred to duck laying houses and then given the following dietary treatments… Yolk color was determined through the use of La Roche color fan scale.

The data on egg production, egg weight, feed consumption, feed efficiency, body weight and egg quality characteristics were computed for means and analyzed using …

The means were compared using the DMRT ….

MATERIALS AND METHODS

B.   A survey of the factors affecting decision-making for non-fishing activities of fishermen and their families was conducted in Barangay Maganda, Town, Province from July 20 to August 30, 1994. Fifty respondents, representing 25 families, whose major source of livelihood is fishing were taken through simple random sampling.

The husband and wife served as respondents for each family. The personal face-to-face interview using a pre-tested questionnaire (a copy is appended) was done.

Some problems were encountered during the collection of data. In five cases, neither the husband nor the wife was available for interview even if this had been previously set. However, the interviewers were able to find substitutes for these families. Also, in a few instances, the respondents refused to submit an interview.