

**IBIS THE NEW VARIETIES OF CHICKENS  
(A THRESHOLD FOR PRODUCING COMMERCIAL  
EGG-TYPE BREED OF CHICKENS, APRI GOLDEN)**

**By**

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**ABSTRACT:** *Producing egg-type and meat-type commercial breeds of chickens, locally, has become a must. Certain attempts had been made to develop some foundation stocks to be utilized in the process of producing egg-type or meat-type commercial breeds of chickens. Performance studies for the developed foundation stocks proved that further development should be made in order to utilize the new foundation stocks for the process of producing commercial breeds of chickens. Previous foundation stocks were named as: Matrouh ( a cross between Dohhi4 and the white Leghorn), the Silver and the Golden Montazah ( across between Dokki4 and RIR), small bodied Baheij ( a cross between the Silver Montazah and Alexandria) and Mandarah (a cross between Dokki4 and Alexandria). Emphasis on egg-production will be given in the present articles, therefore, foundation stocks for meat production will be overlooked. The new foundation stocks, which were developed in El-Sabhia Poultry Research Station and were given the following names Sabahia, Ibis, Pharos and Marriott The main objectives of this work was develop Ibis a new foundation stocks , and developing eight-way crosses for improving egg production traits in local breeds of chickens. The coloration of Ibis are closely feathered lines with golden colored (Golden Ibis) or silver colored (Silver Ibis), Colombian pattern with barred hackles, wing and tails.*

**INTRODUCTION**

Breeding programs can play a major role in increasing producing chicken egg and /or meat. The most important aspect in developing a new breed of chicken is to include breed differences for adaptive traits. In order to improve production in poultry, the breeders use two tools; selection of the parents of the next generation from among the best producing birds of the present generation, and a mating system throughout which the prospective parents can give the heights possible genetic gain. The modern technologies

have been included commercial strains, proper hygiene management, high efficiency diets and suitable

housing system. Several attempts have been made to improve the performance of local breeds of chickens in Egypt such as Matrouh, silver and golden Montazah and Bahij (Mahmoud *et al.*, 1974a, b, c and 1989) Mandarah (Abdel- Gawad *et al.*, 1981)

Developed foundation stocks should achieve the requirements of the breeding programs, otherwise, further development could be a must. Therefore, the previously developed foundation stocks could be utilized as gene pool, besides, other gene pool such as Lohman Brown (L.B.) and Lohman Selected Leghorn (L.S.L) could be utilized to develop new foundation stocks Sabahia (Afaf El-Turky 2008), Marriott and Pharos (Abou El-Ghar 2008 a,b).

The main objectives of this work was develop Ibis a new foundation stocks , and developing eight-way crosses for improving egg production traits in local breeds of chickens to be utilized as foundation stocks for the processes of producing commercial egg-type breeds of chickens (APRI Golden), moreover, achieving self-sufficiency in egg production, saving hard currency spent for importation of parent stocks or commercial breeds of chickens and selling commercial baby chicks to foreign countries.

## **Breeding program and methodology**

### **The first established:**

#### **Development Ibis as a new foundation stock:**

(Mainly crossing coupled with selection) crossing Mandarah males with L.B females to produce

- 1- Single comb golden Ibis (SCGI) which utilized as a sire line.
- 2- Single comb Silver Ibis (SCSI) which utilized as a dam .

However, commercial layers (LB) contributed 87.5% of brown egg producer s blood. Ibis brown egg producer s are good layer for egg mass production and having single comp. On the other hand, the foundation stocks for white egg producer s are developed by crossing Bahij males with Lohman Selected Leghorn (LSL) female to produce

- 1- Duplex comb Golden Ibis ( DCGI) which utilized as a sire .
- 2- Duplex comb Silver Ibis ( DCSI) which utilized as a dam .

## Ibis, New Varieties.

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However, commercial layers (LSL) contributed 87.5% of white egg producers blood. Ibis white egg producers are that the birds will lay fair number of white eggs and having duplex comp.

Crossing between SCGI with DCGI to produce tinted eggs witch called Golden Ibis and crossing between SCSI with DCSI to produce tinted eggs witch called Silver Ibis (2-way crosses).

The coloration of Golden Ibis (sire line) are closely feathered lines with golden colored, Colombian pattern with barred hackles, wing and tails. While, Silver Ibis (dam lines) had silver colored and Colombian pattern with barred hackles, wing and tails.

### **The second established**

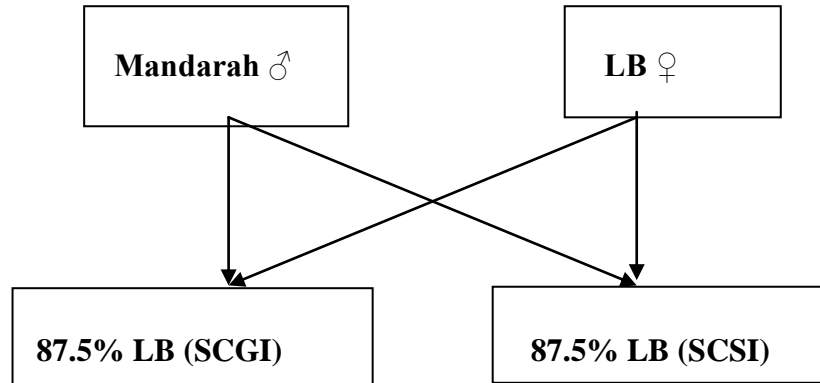
#### **Development the eight way crosses:**

A golden male from the 2 way cross (Golden Ibis) will be crossed to silver females from the 2 way cross (silver Ibis) to produce the 4-way cross. On the other hand, the 4 way cross (Golden Ibis) will be crossed with the 4 way crosses (Silver Sabahia) Afaf El-Turky (2008) to produce the 8- way cross. The 8-way cross will be produced tinted eggs. The coloration of eight way crosses sire line are closely feathered lines with golden colored, Colombian pattern with barred hackles, wing and tails. While, eight way crosses dam lines had silver colored and Colombian pattern with barred hackles, wing and tails.

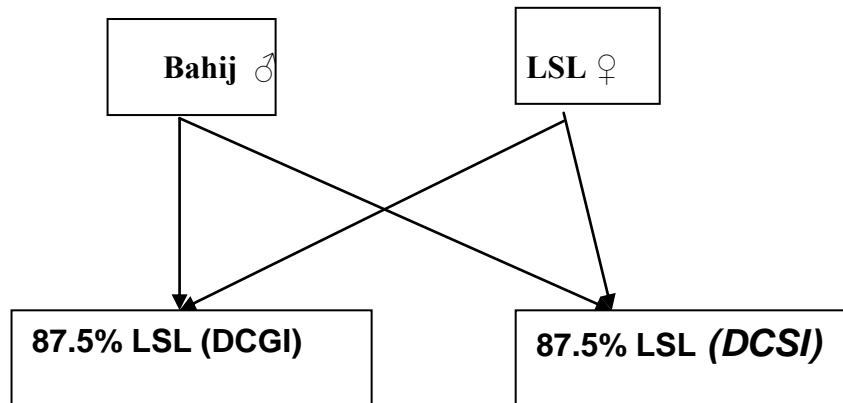
#### **B- Improvement:**

(Mainly selection with crossing) using recurrent selection to improve egg production traits for new foundation stock of chicken Ibis and the 8- way crosses.

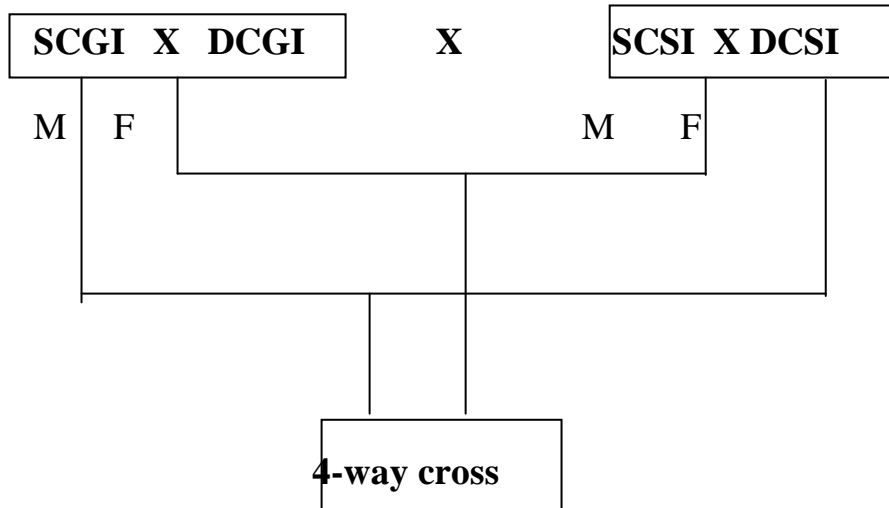
**1-Ibis brown egg producers .**



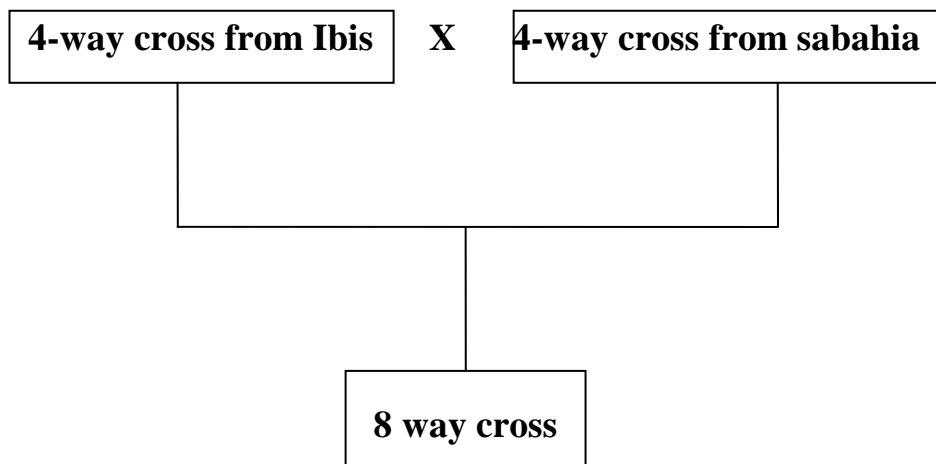
**2-Ibis white egg producers .**



**The 4-way cross:**



**The 8-way cross:**



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