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EC1417 How to Pedigree Chicks

S. J. Marsden

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THE UNIVERSITY OF NEBRASKA AGRICULTURAL COLLEGE EXTENSION SERVICE

June, 1924

Extension Circular 1417

HOW TO PEDIGREE CHICKS

UNITED STATES
DEPARTMENT OF AGRICULTURE
COOPERATING

HOW TO PEDIGREE CHICKS

S. J. MARSDEN

The growing interest in the breeding of poultry for egg production and standard qualities has brought many inquiries for a simple, accurate, and inexpensive pedigree system. The system in use at the Experiment Station poultry farm has proved satisfactory and is described in this circular.

LEG BANDS FOR MARKING HENS

The first step in establishing a pedigree system is that of giving each bird to be used for a breeder a permanent number. This is done by banding with a sealed band. No duplicates are

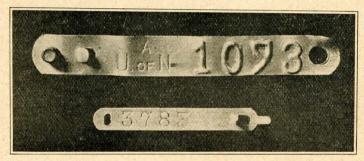


Fig. 1—Bands

ever used; nor bands with more than four figures. The first series of 9999 bands are prefixed with the letter "A". The second series will be "B". Example, "A 2108", "B 28". The male bands are designated by the letter "M" placed after the number, such as "333 M". Since the number of males banded would be comparatively small, the 9999 bands available would suffice for a long period of years.

TRAPNESTS

The trapnest is the means of identifying each egg. There are many types of trapnests on the market, almost any one of which will work, but not all are inexpensive, convenient, simple, and accurate. Trapnest fronts that can be added to any ordinary nests have proved very satisfactory, and allow the owner to construct his nests as he sees fit, allowing plenty of ventilation, which is of especial importance in hot weather.

Each pedigree pen is headed by one male and well yarded so that the matings are under control. When the hen is released from the trapnest, her number and that of the male is



Fig. 2—Trapnests

written with a lead pencil upon the end of the egg, which in sorting goes to the hen's place in the pedigree rack.

At the end of a week the accumulated eggs are put in the incubators, a record going with each tray full showing how many eggs from each hen are included. Until the 17th or 18th day of pedigree eggs are handled the same as the other eggs,

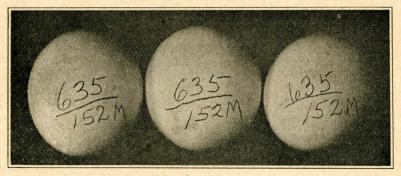


Fig. 3-Marked Eggs

then they are placed in pedigree baskets made of hardware cloth or mosquito-bar sacks, holding up to six eggs, together with a slip of paper giving the numbers of the parents and number of eggs in the box or basket.

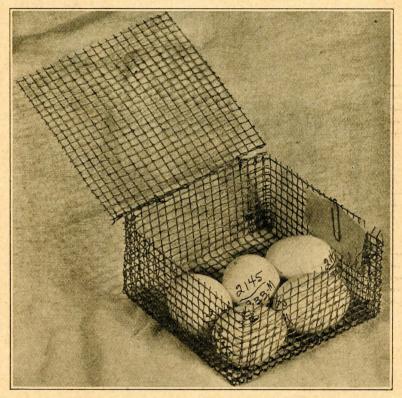


Fig. 4—Eggs in Pedigree Basket

The baskets in use are home-made of ½" hardware cloth, in size 5"x5"x3". Tops are made separate with wire as hinges and held shut with string or wire. Material for a basket costs about ten cents. The sacks are not as satisfactory, so are used only in emergency. They are made 6"x8".

MARKING THE CHICKS

As soon as the hatch is all over and the chicks "hardened," they should be marked. For those pedigreeing only a small number of chicks, the toe-punch can be used. Sixteen different combinations are possible, as indicated in figure 6.

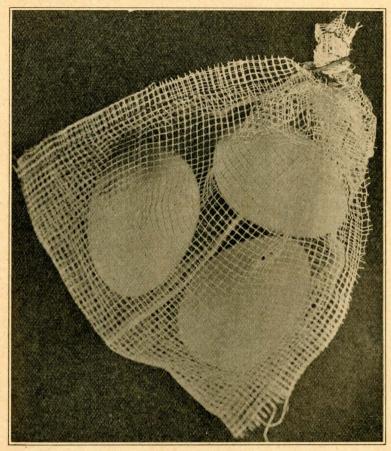
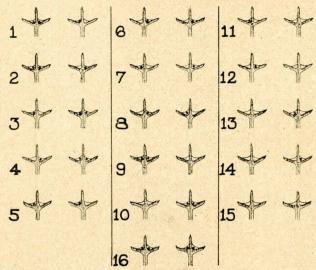


Fig. 5-Pedigree Sack With Eggs

Suitable records should be kept explaining the markings. When larger numbers of chicks are pedigreed, and complete records are wanted, chicks must be banded. The size known as "No. 2 Pigeon" band is used. They are moulded to circular form on a pen-holder, clinched, and strung on a wire in numerical order. Then as the chick is taken out of the basket, the band is slipped on its right leg over its toes and flattened slightly so it cannot come off, though allowing for considerable growth. Then in the pedigree book, opposite the band number, is recorded the ancestry, date of hatch and any other information desired.

At two weeks of age it is necessary to loosen the bands a



LEFT RIGHT LEFT RIGHT LEFT RIGHT SIXTEEN WAYS OF TOE-MARKING CHICKS $Fig.\ 6$ — $Toe-Punch\ Marks$

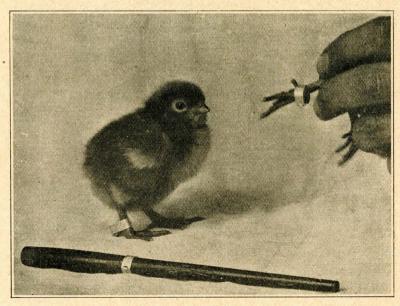


Fig. 7—Band on Leg

little to permit of unobstructed growth. Then at four or five weeks of age the bands are transferred to the right wing. A hole is punched with a sharp penknife just back of the strong tendon at the front edge of the wing and midway between the first and second joints. The band is then removed from the leg, inserted in the hole and clinched again where it remains permanently as the key to the chick's ancestry and any other information found in the pedigree book.

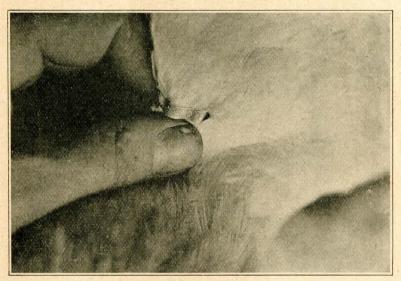


Fig. 8-Band in Wing

RECORDS

A permanent record book is kept safe from fire or theft, while a duplicate copy is used about the plant. This book contains, opposite the number of the wing band, the number of the sire, the number of the dam, variety, and the date of hatch. Additional information such as weight at hatch, and weight at thirty-five days or later is sometimes added for experimental purposes. The date of hatch is quite important since it enables one to ascertain the rate of growth and maturity. This is an important consideration in the selection of breeders and high producers since it is quite well agreed that medium early maturity combined with good size is a common characteristic of the good producer.

As a final step to complete the pedigreeing process, the combination pedigree, breeding record, and egg record card is used for each trappested hen and breeding male.

PEDIGREE RECORD

| REMARKS | Chick Band | Dam | Bire | Date Hatched | Variety | 35 d. wt. | Sex | REMARKS |
|--|------------|------|------|--------------|-----------|-----------|--------|--|
| | 9501 | 3094 | 286 | may 3-192 | 3 Bra Ren | 249 | w h | |
| | 9502 | | 114 | -/ - | S.C. Red | | | S OF STREET, S |
| A SHEET AND A | 9508 | 4525 | 407 | " " | Bull Out. | | Mary I | |
| | 9504 | 4525 | 407 | " " | 1. 1. | 186 | | |
| | 9505 | 4525 | 407 | " " | " | 278 | | |
| | 9506 | 2964 | 278 | " " | Joh. Wy. | 266 | | EVALUE VALUE |
| | 9507 | 2964 | 278 | | 0 | 294 | 2 | mpt. Sept 15, 192 |
| | 9508 | 2964 | 278 | | " " | 365 | | 1 |
| STATE OF THE STATE | 9509 | 2964 | 278 | | " " | 230 | | |
| | 9510 | 2964 | 278 | 11 " | " " | 230 | 71 | |
| 100 | 9511 | 2982 | 278 | | " " | 255 | | |
| and the | 9512 | 2982 | 278 | | " " | 295 | 0100 | |
| | 9513 | 3062 | 286 | | Bar Rock | | 8 | akt. Sept. 15, 1923 |
| | 9514 | 3062 | 286 | | " " | 209 | | |
| | 9515 | 3062 | 286 | 4 " | | 185 | | |
| A. C. come | 9516 | 3076 | 286 | " " | 4 " | 200 | | Marie Name |
| 17 July 18 | 9517 | 2987 | 307 | " " | Jeh. Wy. | 72 | | |
| | 9518 | 2987 | 307 | " " | . 1 | 113 | | |
| | 9519 | 2126 | 39 | . " | Scul Lea | 99 | 8 | Died June, 1923 |
| | 9520 | 2184 | 355 | " " | 1 / | 215 | | |
| 1000 | 9521 | 6219 | 373 | | " | 132 | | |
| | 9522 | 1715 | 286 | | Bar Rock | | | |
| | 9523 | 2189 | 355 | | Scultes | 190 | | NAME OF THE PARTY |
| 15.0 | 9524 | 2189 | 355 | + " | T ., J | 83 | | |

Fig. 9—Pedigree Record

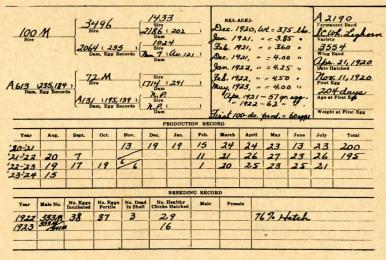


Fig. 10-Record Card

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PEDIGREE RECORD

| REMARKS | Chick Band | Dam | Sire | Date Hatched | Variety | 35 d. wt. | Sex | REMARKS |
|--|------------|------|------|--------------|-----------|-----------|-------|--|
| | 9501 | 3094 | 286 | may 3-192 | Bre Roo | 249 | DITA. | A PLAN TO THE |
| Taration and | 9502 | - | 114 | | S.C. Red | 242 | | |
| | 9508 | 4525 | 407 | 4 " | Bull Out. | | | |
| TEXT IN | 9504 | 4525 | 407 | " " | 1, " | 186 | | |
| TOTAL STATE | 9505 | 4525 | 407 | " " | | 278 | | |
| | 9506 | 2964 | 278 | " " | Joh. Wy. | 266 | | |
| The state of | 9507 | 2964 | 278 | | 0 | 294 | 2 | mpt. Sept 15, 192 |
| | 9508 | 2964 | 278 | " " | " " | 365 | | |
| | 9509 | 2964 | 278 | * " | " " | 230 | | |
| The Late of the la | 9510 | 2964 | 278 | " " | | 230 | | |
| A STATE OF THE STA | 9511 | 2982 | 278 | " " | " | 255 | 6 | |
| | 9512 | 2982 | 278 | | | 295 | | |
| | 9513 | 3062 | 286 | | Bar Rock | | 2 | nkt. Sept. 15, 192 |
| | 9514 | 3062 | 286 | | " " | 209 | 17000 | |
| | 9515 | 3062 | 286 | , | | 185 | 18.00 | |
| | 9516 | 3076 | 286 | " " | 4 " | 200 | 2161 | The state of the s |
| | 9517 | 2987 | 307 | " " | Jeh. Wy. | 72 | | |
| The River | 9518 | 2987 | 307 | " " | . 1 | 113 | Park | |
| | 9519 | 2126 | 39 | . " | Scul Les | 99 | 8 | Died June, 1923 |
| | 9520 | 2184 | 355 | " " | ". / | 215 | | 1 |
| | 9521 | 6219 | 37.3 | " " | " | 132 | | |
| THEY LIKE | 9522 | 1715 | 286 | . " | Bar Rock | | | |
| | 9523 | 2189 | 355 | | lowhten | | | AND ALL STREET, AND ADDRESS. |
| | 9524 | 2189 | 355 | | " 7 | 83 | 11/3 | |

Fig. 9—Pedigree Record

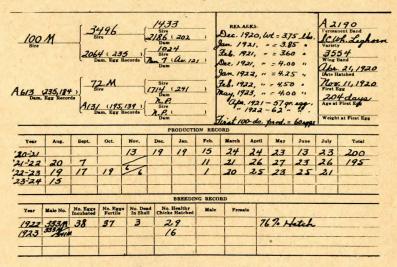


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