A plucked chicken is the central focus, lying on a white surface. In the foreground, two white eggs are positioned to the left of the chicken. To the far left, there are several strawberries and a bunch of purple grapes. In the background, a yellow plastic container is partially visible. To the right of the chicken, a woven basket contains a large amount of light-colored feed, possibly corn or wheat. The text "Poultry Industry" is overlaid in a blue, serif font, and "• Dual Purpose" is overlaid in a white, sans-serif font with a blue outline.

Poultry Industry

- Dual Purpose

Group Members

- Harshana Nawarathna
- Dineth Nagahawaththe
- Dimuthu Narasinghe
- Nilupa Ranahunga
- Madhura Hasantha
- Lasitha Sandaruwan
- Ishara Sandamal
- Samgeeth Sumiyuru
- Gayan De Silva
- Sameera Snjaya
- Iranthi Hansika
- Kasunika Sewwandi

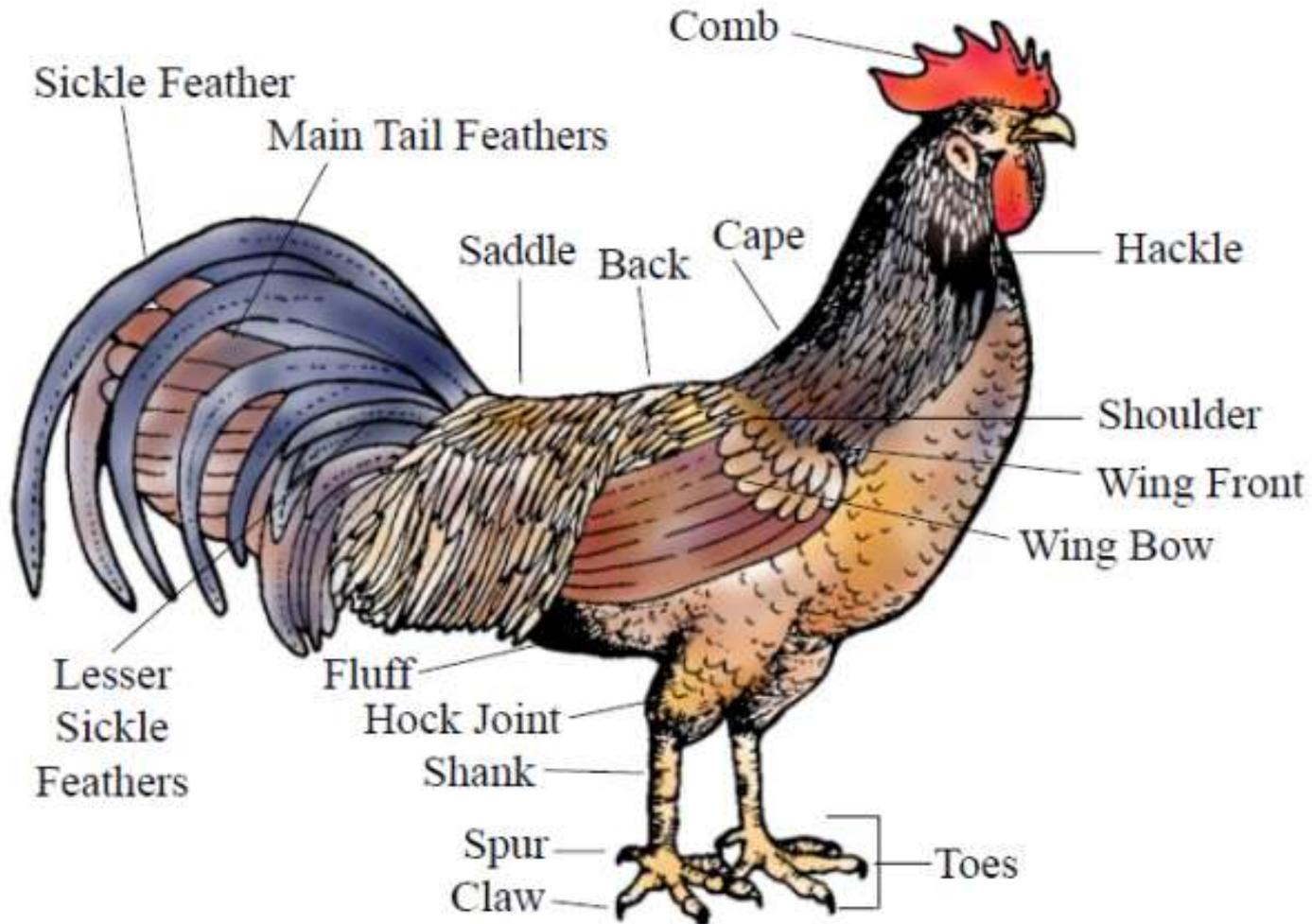


- **Poultry farming** is raising of domesticated birds for the purpose of farming meat or eggs for food
- More than 50 billion chickens are raised annually as a source of food
- Chickens raised for eggs are usually called **layers** while chickens raised for meat are often called **broilers**
- Chicken raised for both the requirements are called “dual Purpose Poultry”

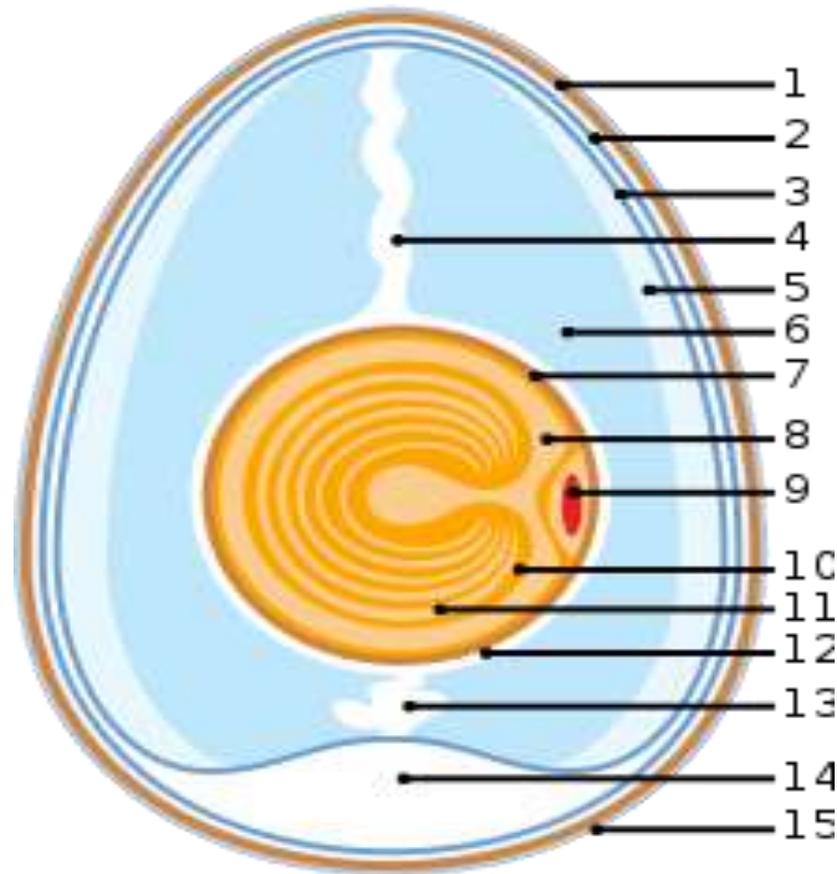


Parts of a typical chicken

Parts of a Rooster



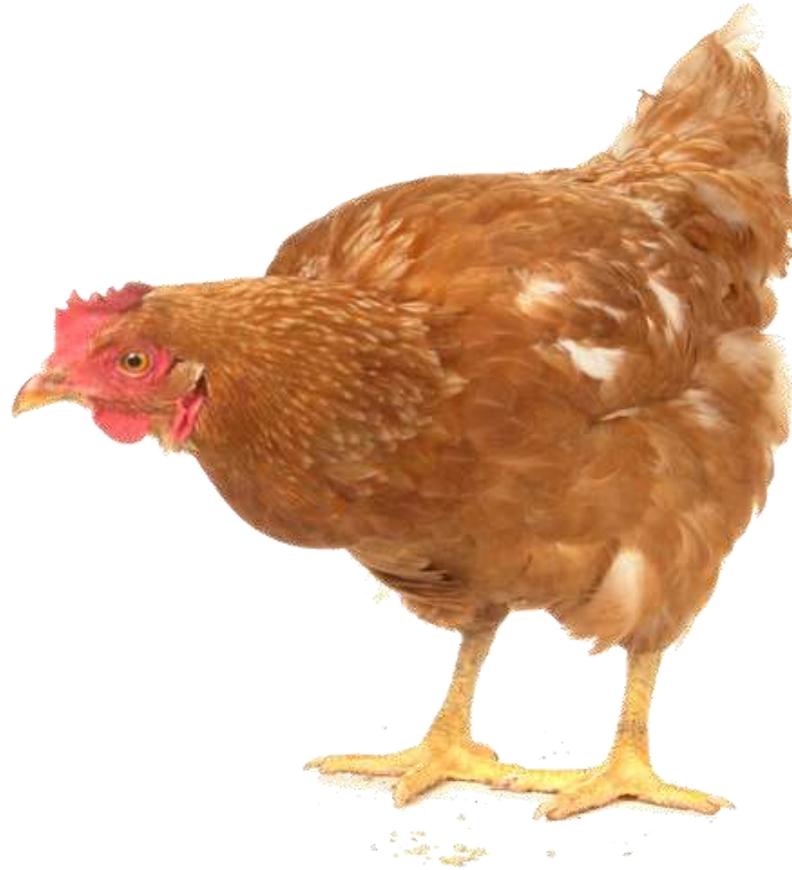
Anatomy of an Egg



- 
1. Egg shell
 2. Outer membrane
 3. Inner membrane
 4. Chalaza
 5. Exterior albumen
 6. Middle albumen
 7. Vittaline membrane

8. Nucleus Pondera
9. Germinal Disc (nucleus)
10. Yellow yolk
11. White yolk
12. Internal albumen
13. Chalaza
14. Air cell
15. Cuticala

Brown Shaver



Characteristics

- Origin – Canada
- Use – Dual Purpose
- Color - Brown

Morphological Features

- Pullets are reddish-brown in color with white under feathers.
- Males are white with a few red markings on the feathers.
- females a red-brown color with white down.
- It is a hardy, dual-purpose breed laying brown eggs.

Egg Production

- Lay from 305 to 315 eggs a year.
- Reported to be prolific producers of large brown eggs.
- One four year old Red Shaver chicken was laying an egg, with a mass of 143 grams.
- Almost three times the size of a standard medium egg (Typically a medium egg is 49 g, a jumbo egg is 70 g)

Meat Production

- Body weight at 18 weeks is about $3\frac{1}{2}$ lbs
- After one year of laying weight between $4\frac{1}{2}$ to 5 lbs.

Laying Period		18-90 wks
Livability		93.9%
Age at 50% production		145days
Peak percentage		97%
Average egg weight		62.10g
Egg number hen housed		405
Egg mass hen housed		25.1kg
Average feed consumption per day		108g
Feed conversion		2.17kg/kg
Body weight		1975g
Shell strength		3950g
Shell color		31.5
Hough units		84

Astrolarp



Characteristics

- Origin - Australia
- Use - Dual Purpose
- Behavior- Calm and Friendly
- Size – 7-8 lbs

Colors & Varieties

The Australorp comes in both standard size and multiple colors

The Australorp currently has three recognized colors :-

black

white

blue

White Australorp rooster.



Black Australorp rooster.



Blue Australorp rooster.



Morphological Features

- The black Australorp-
 - most common
 - has glossy black feathers
 - Has lustrous green sheen (*beetle green*)
- The blue Australorp- has a grey-blue plumage
- The white Australorp-
 - A pure white bird and with randomly spotted black and grey feathers

Egg Production

- Australorps lay approximately 250 eggs per year.
- The eggs are light-brown in color
- The egg size is large.



Meat Production

- Large Australorps

Chock	3.9-4.7 kg	8.6- 10.3lbs
Hen	3.3-4.2 kg	7.3-9.2lbs
Cockerel	3.2-3.6 kg	7.0-7.9lbs
Pullet	3.0-3.6 kg	6.6-7.9lbs

Meat Production

- Bantam Australorps

Chock	1.2 kg	2.6 lbs.
Hen	790 g	1.7 lbs.
Cockerel	1.6–2.1 kg	1.7 lbs.
Pullet	1.3–1.9 kg	2.9–4.2 lbs.

GIRIRAJA



Characteristics

- Origin – India
- Color - Synthetic colored
- Use - dual-purpose
- GIRIRAJA - Stands for king of the jungle fowl
- A strain bred d to resemble local fowls
- Sturdy and resistant
- Highly adaptable to various weather and

- Body weight of the chicken – 1600-1700g
- Livability - 98%
- Egg production per year - 150-170
- Egg weight - 55-65g
- Weight of the adult bird
 - Male - 4.5- 5.5kg
 - Female - 3.5- 4 kg

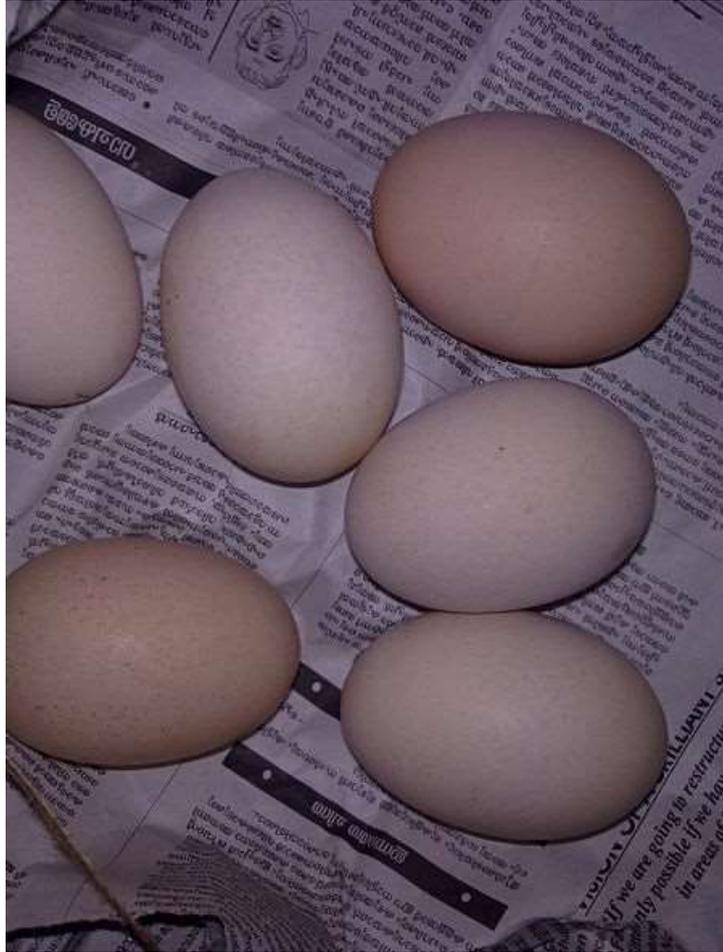
Salient Features of Giriraja Breed

- Resembles local breeds in color and appearance
- Sturdy and resistant to diseases
- Adaptable to any region and weather
- Body weight and egg production are 3 times greater than local breeds
- Adoptable well to scavenging conditions
- Developed for small scale farmers and tribals

Egg Production

- lays about 160-170 eggs a year
- Each egg weighs about 55-60 gms
- good hatchability (80-85 per cent)
- eggshell :-
 - brown in color
 - thicker than other commercial eggs
 - does not break easily.
 - can be stored for 15 days at room temp:

- birds are only layers and not brooders, so eggs are hatched by local brooder hens



Meat Production

- Weight of the adult bird
- Male -- 4.5- 5.5kg
- Female -- 3.5- 4 kg

Feed And Water

- Chicken must have feed & water at all times.
 - Have to Keep checking the feed and water to make sure it is clean.
 - **Brooder**
 - A heated enclosure
- ## Breeding
- ▶ Fishmeal and meat-meal are used to increased production, improved availability and better awareness.

New Hampshire





America

Use

:Dual-purpose breed

Weight Male

: 3.9 kg (8.5 lb)

Female

:2.9 kg (6.5 lb)

Skin color
Brown

:Yellow Egg color

Comb type

: Single

Origin

- relatively a new breed
- They represent a specialized selection out of the Rhode Island Red breed.
- This took place in the New England states, chiefly in New Hampshire, from which it takes its name.

Behavior

- The chicks are quick to feather up and mature quickly.
- The hens lay well and are friendly and are therefore easy to tame.
- They thrive in a run or wandering free and as they are not good fliers
- they do not need particularly high fencing.
- They are not aggressive towards each other and are tolerant creatures.

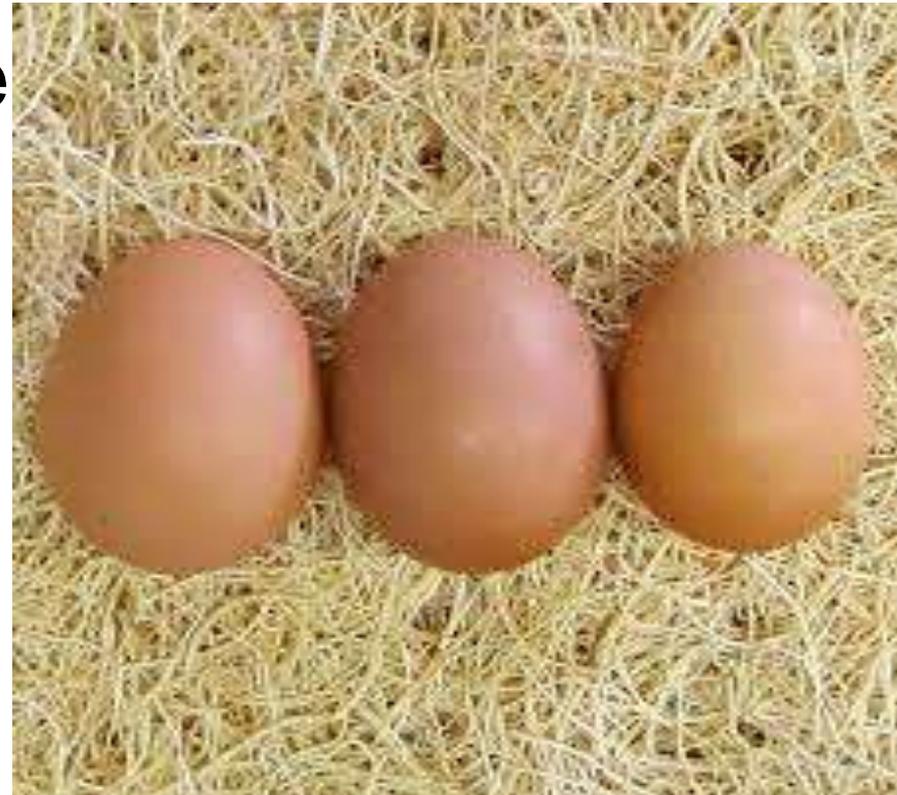
Characteristics

New Hampshire Red rooster-

- possess a deep, broad body.
- Most pin feathers are a reddish buff in color and, do not detract from the carcass appearance .
- The color is a medium to light red and often fades in the sunshine.
- The comb is single and medium to large in size; in the females it often lops over a bit.
- Some strains lay eggs of a dark brown shell color.

Egg Production

- large brown eggs
- 3 eggs per week
- 200-280 eggs per ye

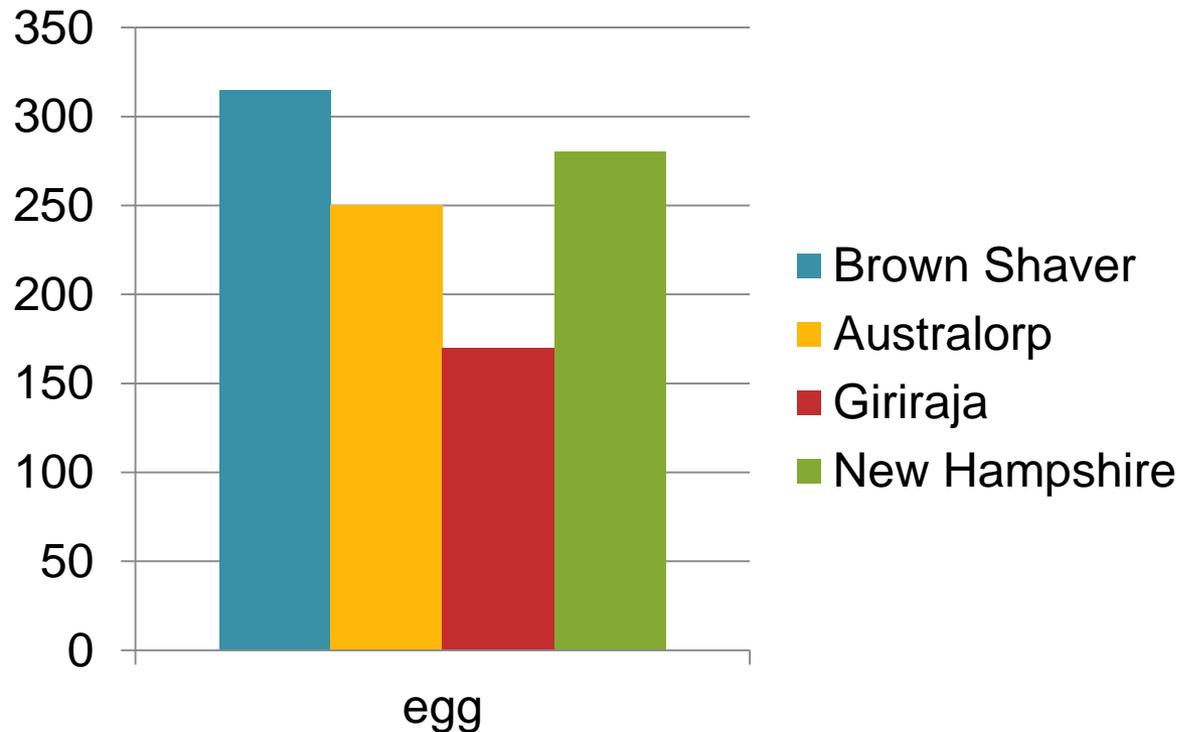


Meat Production

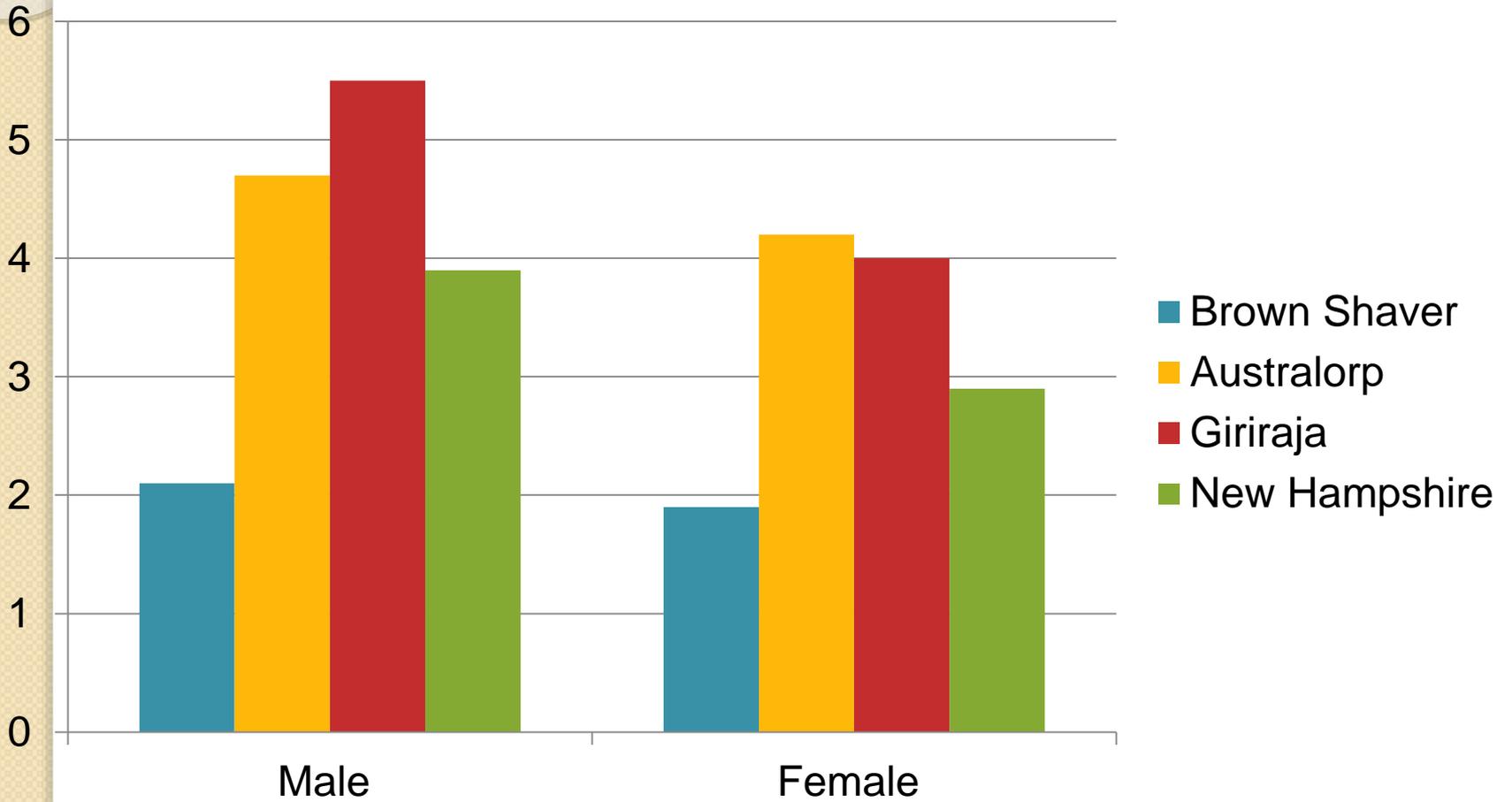
- **Approximate weight**
- Cock 3.9 kg 8½ lbs
- Hen 2.9 kg 6½ lbs

Comparison

Production	Brown Shaver	Australorp	Giriraja	New Hampshire
Egg	315	250	170	280



Meat Production	Brown Shaver	Australorp	Giriraja	New Hampshire
Male	2.1	4.7	5.5	3.9
Female	1.9	4.2	4.0	2.9



Diseases

- COCCIDIOSIS
- HISTOMONOSIS
- ASCARIDIOSIS
- ESCHERICHIA COLI INFECTIONS
- SALMONELLOSES
- VIRAL INCLUSION BODY HEPATITIS
- HAEMORRHAGIC ENTERITIS OF TURKEYS
- EGG DROP SYNDROME -1976

References

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- <http://www.isapoultry.com/en/products/shaver/shaver-brown/>
- http://www.thepoultrysite.com/publications/6/Diseases_Of_Poultry

Questions?????

- Well, We have a question.
Who came first?
Egg or Meat (Chicken)??

