ALAYMAN'S GUIDE TO AN EGG SHOW

A Booklet Assembled
by
Mark A. Fields
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Introduction

For several years I ran a poultry show in Columbia, Missouri. One of the things we held was an egg show. This was based on the old-time "table egg" judging based on the USDA's program. This was very similar to what was used in the 4H and FFA Egg Competitions.

Recently the APA has resurrected the Egg Show based on the British system. One of the major differences is the emphasis on exterior quality instead of market qualities and using 3 eggs instead of a full dozen.

In either program the point system can be a bit overwhelming to a first-time judge that is asked to score the Egg Show. What I've outlined is a somewhat simplified way of judging that will loosely follow the APA scoring while still taking into account "the good old days" way of judging interior quality. At the end of the show you will find that the final result is almost exactly the same as what you'd get with the point system.

At a recent show in Colorado I debuted this system. The audience and exhibitors liked it. The knowing what the marks meant helped them decipher how the eggs were judged.



The Score Card

There are six categories. Those will be discussed next. Each of those categories was given one of the following "scores".



The "Plus" indicates a score of "good". The rare "plus over a plus" indicates exceptional, but that is quite rare, so don't get too hung up on it.



The "Upright bar" means "ok". Not bad, but nothing stands out. I've found this was used more in a large class where it was necessary to differentiate the levels of "good".



The "Dash" indicates that your found a fault with one or more eggs.



The "zero" means very bad and almost a Disqualification.

The size of a class will tell you if you're going to need to use all the scoring symbols. For example, with just a dozen or so in a class it will be easy to use just the Plus and the Dash along with any comments you've made on the card. By the time you've scored all six categories for an entry the best will "float to the top".

Judging Categories

The entry of three eggs will be evaluated using six categories. They are:

- 1. Weight & Breed Correctness
- 2. Shape
- 3. Size
- 4. Shell Texture
- 5. Appearance
- 6. Internal Quality

Now let's expand the list and consider some of the most common faults. This list is contained on the following page so that you can take that page with you when judging.

To help you in judging the show I recommend having the following

- A Scale that weighs a low as 1/10th an ounce
- 450 lumen (or higher) LED mini-flashlight
- Magnifying Glass
- Bright colored sharpie marker
- Ink Pen
- Plastic Saucer for egg breakout
- A rag or handkerchief for wiping hands when cracking eggs
- The Category and Some Common Faults List

The Categories and Some Common Faults

Weight and Breed Correctness

- If there is more than 1/10 of an ounce variation reduce to a –
- If there is more than 3/10 of an ounce variation change to a zero
- If the eggs do not look true to type for the breed change to a or zero.

Shape

- If the eggs are well formed give them a +
- Any distorted or elongated eggs would result in a or zero.

Size

- Are the eggs uniform? If so then a +
- If you use calipers to check for uniform size (width) give a minus if variation is noticeable

Shell Texture

- A list of items that would reduce the score from a + to a or a zero
 - o Rough
 - o Ridges
 - Wrinkles
 - o Porous
 - Blind Checks
 - Cracked or checked

Appearance

- A list of items that would reduce the score from a + to a or a zero
 - Dirty
 - Stained
- List of Serious defects each of which results in an automatic or zero
 - Glossy or Shiny

Internal Quality

- A list of items to verify the egg deserves a +
 - Quality of Yolk
 - Albumen (White)
 - Chalazae (white cord that holds the yolk to the white)
 - o Airspace
 - o Freshness
- List of Serious defects each of which results in an automatic or zero
 - Double Yolk
 - Staleness
 - o Embryo
 - Blood spots
 - Meat spots

Below is a list of items that result automatic disqualification of the entire entry.

- Any foreign color added to any of the eggs
- Artificial polishing of any of the eggs

How to Judge the Entries

The show will determine what the classes are. A common breakdown would be:

- Large Fowl
- Bantam
- Waterfowl
- Any Other Fowl

Here are the steps I have found as an efficient way to judge the show.

Determine how big the class is and give it a "once over" to get an idea in your mind of how tight the scoring will be. This seems like a trivial step, however if you immediately see a half dozen of really nicelooking plates, then you know you have to be a little more critical.

Weigh the eggs. Hopefully the show will weigh them for you as they accept the entry. On the card write the ounces and tenth's of ounces per egg. For example an entry might be "1.7 - 1.6 - 1.7"

For each entry in a class you will give each of the six categories one of the scoring "marks".

Look at the weights, if the class is big and things look tight then you have to decide if that .1 is a plus, a bar or a minus. In a tight class I'd give it a bar. This is also where you would look at the eggs and see if they are representative of the breed on the card. Write the first mark on the card.

Look at the shape of the eggs. Are they "typical egg shape". You want a place that is uniform in shape. This is the second mark on the card.

The size of the eggs is when you'd break out the calipers to determine are the eggs uniform in size. You don't have to read the calipers, just find the widest point and then compare that to the other two eggs but sliding them through the calipers. This is surprisingly easy and helps eliminate optical illusions. This is the third mark on the card.

Shell texture includes both internal and external. I like to shine the mini-flashlight on the egg, similar to how you candle them. This helps you see any small cracks, subtle striations, etc. Two common faults you can detect with this is highly porous shells and variation in air cell size. I like to circle any fault that is visible. This is the fourth mark on the card.

Appearance is easy. Are the eggs clean and look like they were freshly collected. Any old dull, dirty or shiny eggs would be downgraded. If you see a dirty spot, circle it with the marker. This is the fifth mark on the card.

Crack one egg into a plate and evaluate the egg to see if it is fresh. Attached is a good "cheat sheet" to help on this one. After judging the internal quality, pour the egg onto the plate with the other two eggs. This is the sixth and final mark on the card.

Slip the finalized card under the edge of the plate. Be sure to make any notations on the card that you want to remember about the entry. On the example on the first page you see I wrote "WOW!"

When you are done judging each entry (plate of eggs) in a class it is time to pick the champions. Most shows will want first through third.

To pick your first-place plate you are looking at the highest scoring plate. If you have 4 plates each with all 6 pluses, then you have to look at the smaller details to make the decision on which is first, second then third.

After you have judged all the classes you will probably be asked to pick the Champion of the Egg Show. You would compare the top plate from each class to find the best entry overall. Honestly, this is relatively easy because by that time you will pretty much know which was the best-of-the-best.

Setting Up the Show

These are the items needed for the show:

- Tables
- Table Cloths
- Entry/Score Cards
- Ink Pen
- Scales
- Paper Plates
- Fine Shavings

Each show will determine when the cut-off is for entries. Often it is the morning of show as usually the cards are not made out until the entry is presented.

For each entry place a few shavings on the plate and have the owner arrange them with small points inward.

Fill out the entry/score card.

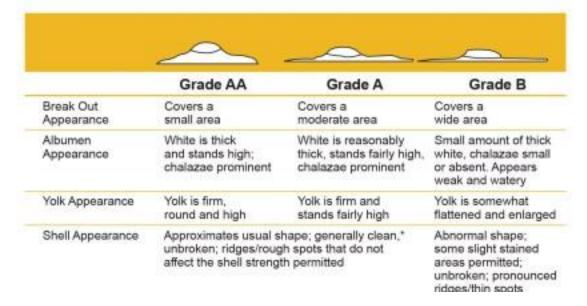
If the staff is weighing eggs instead of the judge (recommended) then write the three weights on the card. Then slide the card under the edge of the plate.

Some shows require entry ahead of time and prepayment as well. Others take payment for the Egg Show at the time they are presented for display.

The goal of the show staff is to arrange the eggs in their classes and keep everything organized. For presentation sake we've found that arranging each class by color of eggs. This results in all the white eggs together, the brown eggs, etc. The better organized the display the smoother the judging will go.

30 UZ.	21 02	24 02	2102,	10 02	10 02.
Minimum wt. per 30 dozen case					
56 lbs.	50.5 lbs.	45 lbs.	39.5 lbs.	34 lbs.	28 lbs.

Egg Quality



COMPOSITION Shell - Outer covering of egg, composed largely of calcium carbonate May be white or brown depending on breed of chicken. Color does not effect egg quality, cooking characteristics, nutritive value or shell thickness Yolk -· Yellow portion of egg. · Color varies with feed of the hen, but doesn't indicate nutritive content Major source of egg vitamins, minerals, and fat Germinal Disc egg Vitelline (Yolk) Membrane Holds yolk contents Chalazae-· Twisted, cordlike strands of egg white Anchor yolk in center of egg.

Prominent chalazae

indicated freshness

Air Cell

- Pocket of air formed at the large end of egg
- Caused by contraction of the contents during cooling after laying
- Increases in size as egg ages

Shell Membranes

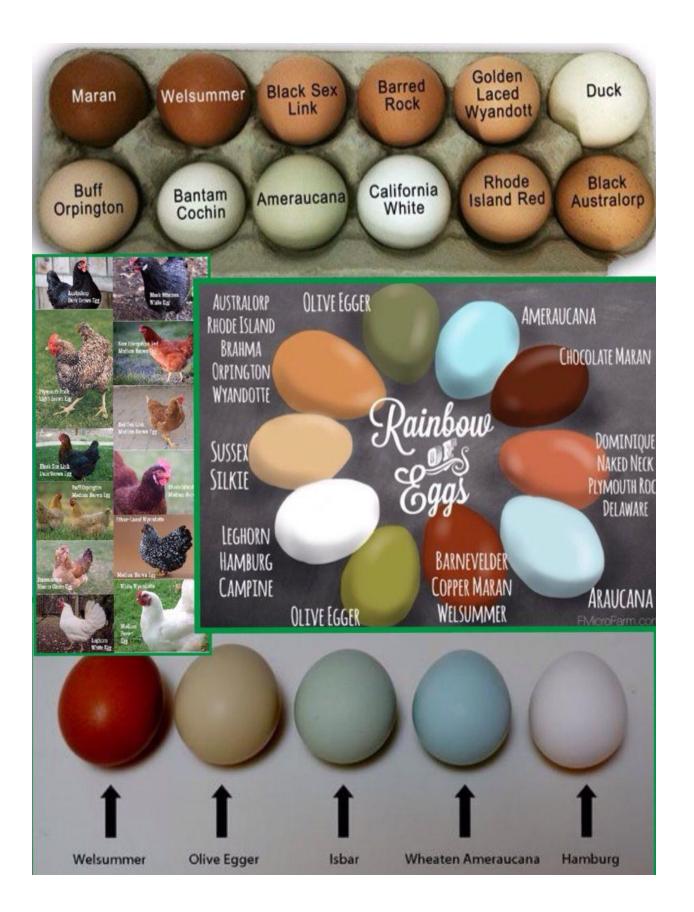
- Two membranes-inner and outer shell membranes surround the albumen
- Provide protective barrier against bacterial penetration
- Air cell forms between these two membranes

Thin Albumen (White)

- Nearest to the shell.
- Spreads around thick white of high-quality

Thick Albumen (White)

- Major source of egg riboflavin and protein.
- Stands higher and spreads less in highergrade eggs
- Thins and becomes indistinguishable from thin white in lowergrade eggs





20 COMMON EGG SHELL QUALITY PROBLEMS



Pale-shelled Eggs

- Causes:
 Infectious bronchitis
 Infectious bronchitis
 Infectious bronchitis
 Index page: Higher incidence in older hers
 Infectious bronchitis
 Infectious description of the flock
 Egg Drop Syndrome 76
 Use of chemotherapeutic agents,
 e.g. sulfonamides and nicarbazin



Lilac Eggs/Pink Eggs

Causes:



- Causes:
 Wet droppings
 High indigestible compound in feed
 Poor gut health
 Electrolyte imbalance/
 saline water



Smears of blood are more comm on eggs from pullets in early lay. These eggs become contaminate by blood from a prolapsed cloace cannibalism or vent pecking.





The eggs are laid without a shell layer and are only protected by the shell membrane.



These are eggs that are laid with an incomplete shell. A thin layer of calcium is deposited on the



- and the shear.

 Aleat stress
 Saline water
 Saline water
 Bird age: Higher incidence in older hems
 Poor nutrition, especially calcium and vitamin D3
 Mycotoxins



Corrugated Eggs

These eggs are characterised by a very rough, corrugated surface. They are thought to be produced when there is an inability to control and terminate plumping.



Wrinkled Eggs

These eggs have thinly creased and wrinkled surfaces.



Pimpled Eggs

Small lumps of calcified material appear on the egg shell. The severity of pimples depends on the foreign material present during the calcification process.



Calcium Coated Eggs

Causes:
Defective shell gland
Disturbances during calcification
Poor nutrition
e.g. excess calcium





Calcium Deposits

White coloured irregular shaped spots deposited on the external surface of the shell.

- Causes:
 Defective shell gland
 Disturbances during calcification
 Poor nutrition
 e.g. excess calcium





White Speckled Eggs

Causes:
- Defective shell gland
- Disturbances during calcification
- Poor nutrition
e.g. excess calcium



- Causes:
 Defective shell gland
 Disturbances during calcification
 Poor nutrition
 e.g. excess calcium



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Body-Checked Eggs

Causes:
- Incorrect lighting
- Stress
- Bird age: Higher incidence in older hens
- Overcrowding



Broken and Mended Eggs

In this case, a diagonal break occurs during formation and is mended again before lay.

Causes: • Stress during calcification



Misshapen Eggs A misshapen egg is an egg that differs from the normal shape and size is too small or large, round instead of oval or has major changes in the shape.

- Causes:
 Immature shell gland
 Disease: Newcastle disease, Infectious Bronchitis, Iaryngotracheitis, Egg Drop Syndrome 76, etc.
 Stress
 Oversrowding



White Banded Eggs

White Banded Eggs
These eggs are the result of two
eggs coming into contact with
each other in the shell gland
pouch. At this point, normal
calcification is interrupted and
the first egg retained in the
pouch will have an extra layer
of calcium - seen as the white
band marking.

- Causes:
 Stress
 Changes in lighting
 Disease



- Causes:
 Stress
 Changes in lighting
 Disease
- Slab-sided Eggs

Acknowledgement: Some information has been extracted from the book 'Egg Shell Quality Problems: Causes and Solutions' published by University of New England, Australia. We thank the Australia. We thank the Australia Egg Corporation Limited and the University of New England for their permission to use the oviduct photo.

Causes: High humidity in the shed Disease and mycotoxins Manganese deficiency Overcrowding

ON-FARM ADVANTAGE

APA National Egg Show Rules

Main Egg Competition (only an entry in this division may qualify for Egg Show Champion)

- One entry consists of a group of 3 eggs.
- Open and Junior in each division.
- Judging Criteria: Shell color (when breed standard has stated color, variation from this is penalized), Shape, Texture, Uniformity.
- Entries shall note the breed of eggs, non standard (not recognized by APA), mix or unknown ancestry.

Divisions -

- Large Eggs Breed, Non-Standard or mix noted on entry card. Classes: White, Brown, or other colors (speckled or mottled entered by background color).
- Bantam Eggs Breed or Non-Standard noted on entry card. Classes: White, Brown, or other colors (speckled or mottled entered by background color).
- Waterfowl eggs Breed or Non-Standard noted on entry card. Classes: White,
 brown, or other colors (speckled or mottled entered by background color).
- All Other Eggs Emu, Turkey, etc. Classes: White, brown, or other colors (speckled or mottled entered by background color).

Painted Egg Competition

- 1 egg consists of one entry. Multiple entries accepted.
- Open and Junior (please note age category: 5-7yrs, 8-11 yrs, 12-16 yrs.).
- Egg must be hard boiled or blown.
- Egg is painted or inked. NO adornment or decorations added.
- Some type of upright support recommended.
- Egg must be painted/inked by exhibitor.

Decorated Egg Completion

- 1 egg consists of one entry. Multiple entries accepted.
- Open and Junior (please note age category: 5-7yrs, 8-11 yrs, 12-16 yrs.).
- Egg must be hard boiled or blown.
- Egg is to be adorned or decorated, but may have paint added.
- Outline of egg must be recognizable.
- Egg decoration must be created by the exhibitor.

Exhibitors in egg competition are NOT required to enter birds. They may enter in egg competition only.