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STABLE MIX For Healthier, Happier Horses

Webinar Series: Poultry



Elk Grove Milling, Inc.

 Producing high quality horse and animal feeds since 1982

Feeds made in an antibiotic-free facility

71 feed dealers across
 California and Nevada



Healthy Chicks and Chickens

With



Karyl Hedden
Poultry Specialist







The Right Start

Getting chicks and chickens off the right start leads to a healthier, happier flock.



Baby chicks rely on you...

To fulfill all their needs, you are now Mother Hen.





Body Temperature

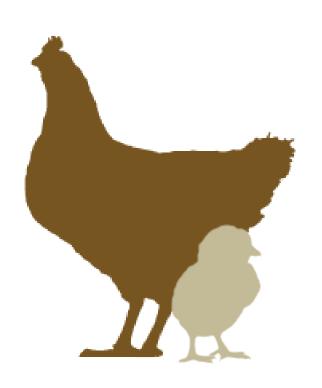
A chicken's body temperature is **104° F**

- Chicks are unable to regulate their body temperature for the first two weeks of life
- Use heat lamps to help maintain stable chick body temperatures





The Big 3



Chickens, like humans, need 3 basic things to be healthy:

- Clean Air
- Clean Water
- Clean Feed



Clean Feed and Water

Fresh feed and water are pivotal to raising healthy chicks and chickens.

- Check feed and water several times a day
- Move feed and water daily to avoid caking or dirtying of shavings
- As chickens grow, elevate feed and water, hang or set on blocks to avoid dirt and debris
 - Watch birds to ensure they can reach all items





Clean Air

Coops with ample ventilation and outdoor access are best for providing clean air to your flock.











Keep litter clean and fresh in the nest!



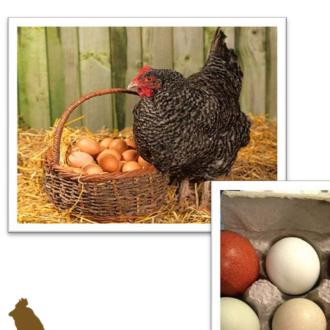


Egg Production

Things you need to know about egg laying and egg shell quality.



Egg Production



- Chickens start laying eggs around 18 weeks
- Chickens lay up to 5 or 6 days in a row
 - 2 day no lay period prior to next clutch
- No rooster in coop= infertile eggs
- Collect table eggs in morning prior to temperature highs



Heat and Light

- Keep the coop ventilated, without strong drafts.
- Supplement natural light with a light bulb, so chickens have a total of 14 hours of light each day.
- Coop temperatures should stay around 50°F each night.





Feed: Start Strong, Finish Strong

Choosing the right feeds to meet the nutritional demands of your flock.



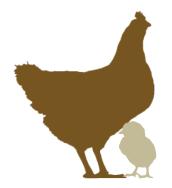
Nutritional Needs

Chicks

- Need complete feed to support immune, bone and hormone development
- Feeds with higher levels of proteins ideal
- Look for feeds with pre- and probiotics to support gut health and immunity

Chickens

- Need feeds to support egg production, to avoid nutrient depletion
- Feeds with more calcium needed to sustain egg production
- Look for feeds supporting intestinal health, 60% of immune response relies on gut health



Healthy hens produce eggs!



Egg Shell Quality

Color, strength, texture, shape and density are a product of a hens nutrition. Here are some common egg shell quality problems:



The degree of brown color in the egg shell is of deposited pigment in the cuticle.

- Infectious bronchitis
- · Bird age (older hen) · High stress in the flock

and nicarbazin)

- Egg Drop Syndrome 76 • Use of chemotherapeutic agents (i.e. sulfonamides



The egg appears to be pink or lilac due to the association between the cuticle and an extra calcium

- Excess calcium in the feed



If the egg shell is stained by feces, it is important to avoid feed ingredients which cause wet and sticky droppings.

- Large amounts of
- indigestible compounds in the feed Poor gut health · Electrolyte imbalance/



Usually from pullets in early lay, eggs are contaminated by smears of blood from a prolapsed cloaca, vent pecking, or cannibalism.

- Overweight pullets
- Pullets coming into lay Sudden, large increases in day length
 • Poor hygiene: Cage, trays, belt pick-up system



aid without a shell layer, these eggs are protected only by the shell

- Immature shell gland
- Disease: Avian Influenza NDV, infectious bronchitis, Egg Drop Syndrome 76 Inadequate nutrition: Calcium, phosphorus, manganese, or vitamin D3



Laid with an incomplete shell, only a thin layer of calcium is deposited on the shell membrane.

- Excessive phosphorus
- consumption Heat stress
 Bird age (older hen) Saline water
 Mycotoxins





This problem includes hair ine cracks, star cracks, or large cracks that result in a hole in the shell.

- Heat stress
- Saline water





Characterized by a very rough, corrugated surface, these eggs are produced when plumping is not controlled and terminated.

- · Heat stress
- · Saline water • Bird age (older hen)
- Poor nutrition, especially calcium and vitamin D3



Eggs with thinly creased and wrinkled surfaces.

- Infectious bronchitis
 Defective shell gland



Classified by small lumps of calcified material on the egg shell, the severity of eign material present during the calcification

- Bird age
- Strain of bird Inadequate nutrition



An extra layer of calcium can be seen all over the egg or on just one end.

- Disturbances during calcification · Excess calcium in the diet



These eggs are classified by white, irregularly shaped spots deposited on the external surface of the

 Defective shell gland Disturbances during calcification • Excess calcium in the diet



With smaller speckles than

calcium deposits, these

- eggs may be laid down before or after the cuticle Defective shell gland
- Disturbances during calcification Excess calcium in the diet



When placed in front of a light, the translucent areas appear mottled or glassy as a result of the shell's failure to dry out quickly.

· High humidity in the shed Disease and mycotoxins Manganese deficiency



The egg is cracked in the shell gland pouch and then repaired before lay.

- Incorrect lighting
- Bird age (older hen) Overcrowding



A diagonal break occurs during formation and is mended again before lay

· Stress during calcification



These eggs are too small or large, round instead of oval, or differ from normal

Overcrowding



Immature shell gland Disease: Avian Influenza Egg Drop Syndrome 76



If two eggs come into

contact with each other in the shell gland pouch, interrupted. The first egg retained in the pouch will have an extra layer of calcium seen as the white band marking.

• Changes in lighting



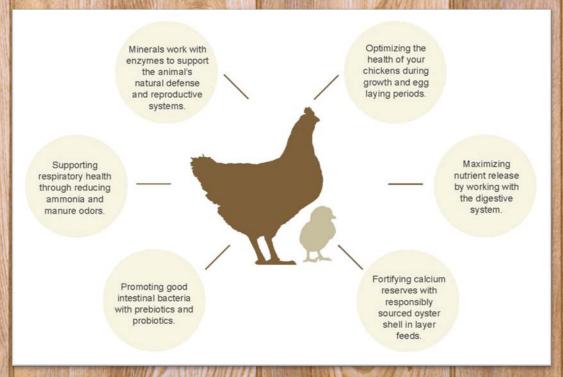
The second egg that enters as complete as the first egg and is flattened where the

 Changes in lighting • Disease



Elk Grove Milling COOP MIXTM Feeds

Formulated to cover the nutritional needs for healthy hens and good egg shell quality throughout the egg production cycle.









Healthy Chickens are Happy Chickens

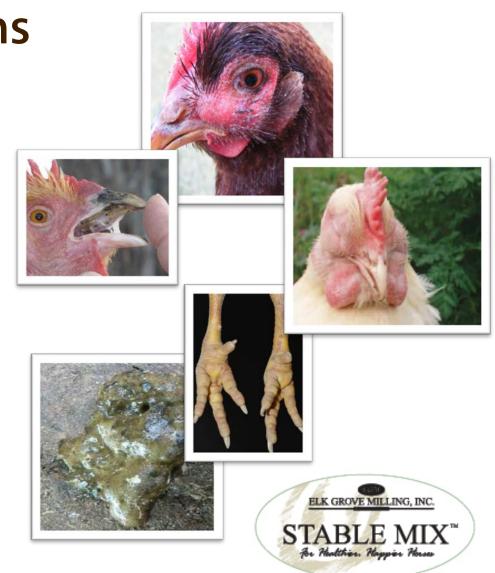
Knowing your flock to keep your chickens healthy and happy.



Know your Chickens

- Pay attention to your chickens appearance and normal routines
- Watch for:
 - 1. Swollen sinuses, nasal discharge
 - 2. Swollen comb or waddle
 - 3. Inactive birds
 - 4. Swollen feet or legs
 - Loose manure
- Keep rodents and wild birds away from your chickens to limit risk of illness

If symptoms occur call your county ag extension service or a veterinary immediately!





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