

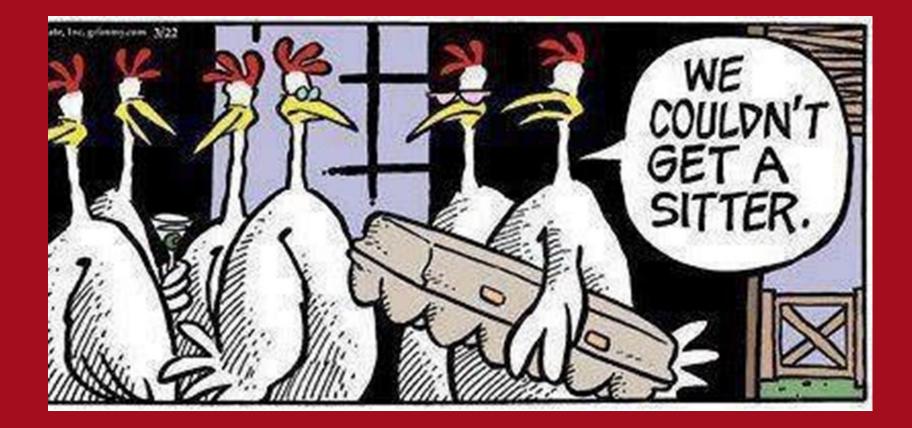


# 2019 CHICK D&YS PROGR&M

# RAISING HAPPY & HEALTHY CHICKS

## **Today's Discussion**

- Why Have Chickens?
- What to Expect
- Meet the Breeds
- How to Get Started
- Products for a Productive Lifetime
- Chicken Behavior
- Health Maintenance





#### Why are so many getting chickens?

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Chickens are fun to watch!
Dozens of beautiful breeds
Distinct personalities & can be quite entertaining and funny
Great pets – can live many years



## **Raising Chickens**



- The pet you love also gives you breakfast!
- Partner in the Garden
  - Produces fertilizer for gardens
  - Insect/Weed Management
  - Provides affordable 4-H projects, teaching children about competition, responsibility and sportsmanship
  - #1 Reason? Fresh, healthful, nutritious eggs (and/or meat)

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## 300%

Additional Omega-3 when feeding Purina<sup>®</sup> Layena<sup>®</sup> Plus Omega-3.\*

Each egg only contains 70 calories - the perfect low calorie protein.

13/9

70

One egg contains 13 essential vitamins and minerals and all 9 essential amino acids.

One egg provides 6 grams of protein, nearly half of which is found in the yolk.

100%

200%

The biological value of egg protein as a source of protein is 100%.

Additional DHA and EPA (Omega 3 fatty acids) when feeding Purina<sup>®</sup> Layena<sup>®</sup> Plus Omega-3.\*

When find a first of Laysun's Pinna Omega-3 axofinatively for at Liend 3 weeks. Bened on large egg (10g), Results may vary with factors such as total dist and I was handle. Compared to a typical egg that considers diving Omega-3 fuely action.

## What Should You Expect?



- How much work?
  - Time commitment for cleaning, feeding, egggathering
- Monetary investment for birds, coop, feed, etc.
- You may get more eggs than you need; consider a plan for the excess
  - Sell
  - Give away
  - Freeze for winter

## What Should You Expect?



How many chickens should you get?

- May be determined by local ordinances and neighborhood covenants
- How much time do you have?
- How many eggs do you want?
   Baby chicks grow up.
  - Plan for housing, protection, space
  - Chickens begin laying at 18-20 weeks
  - Hens eventually stop laying; will they become pets?

If this is your first flock, check local ordinances and consider beginning with 3 to 6 chicks.

## **How Long Do Chickens Live?**

UsuallyUsuallyHens ca<br/>though<br/>after 3 yAccording<br/>the olde

Usually 5 to12 years, and as long as 15

Hens can lay for 5 or more years, though egg production decreases after 3 years

According to Guinness World Records, the oldest living chicken (Muffy) is 22 years old

## Meet the Breeds – Which is Right for You?

#### **Classifications:**

- Egg-Laying Breeds
- Dual-Purpose Breeds
   (Laying & Meat)
  - Meat Breeds
  - **Bantam Breeds** 
    - (Small size)
    - **Show Breeds**





## **Popular Brown Egg Layers**

#### Barred Rock



#### Buff Orpington



#### Rhode Island Red



#### Australorp



Dual purpose Good layers Brown eggs Hardy Not Broody Dual purpose Good layers Brown eggs Hardy Broody Quiet & Gentle

Dual purpose Good layers Brown eggs Hardy Not Broody Similar to Orpington

## **Other Breeds**

#### Silkie



Bantam Many colors Tames easily Moderate egg layer Good sitter White Eggs

#### White Crested Polish



Small Show breed Poor sitter Small white eggs

#### Japanese



#### Leghorn



Ornamental Good as pets Small size Many color varieties Super egg layer Common breed White eggs

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### Ameraucana

#### Lays eggs blue eggs

Birds can be many colors: Black, Blue, Blue Wheaten, Brown Red, Buff, Silver, Wheaten and White

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## **Easter Eggers**

Lays eggs in colors varying from light blue to light green and shades of pink. Has characteristic cheek feather tufts.

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## **Cold-tolerant Breeds**

#### **Cold-Tolerant Features**

- Small comb
- Small wattle
- Heavy feathering
- Bearded
- Feathered legs
- Breed developed in a cold climate

**Cold-Tolerant Breeds** Rocks **Wyandottes** Orpingtons **Brahmas** Cochins Delaware **Rhode Island Red Dominiques Buckeyes** Araucana/Ameraucana **Silkies** Hamburgs

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## **Heat-tolerant Breeds**

#### **Heat-Tolerant Features**

- Large comb Single
- Large wattle
- Finer feathering
- No beards or feathered legs
- Breed developed in a hot climate

Heat-Tolerant Breeds Smaller breeds Leghorns Minorcas Rhode Island Reds New Hampshire Reds Turkens Barred Rocks

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## **Other Poultry**



Turkeys Pheasants Quail Ducks Geese

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## Getting Started & Management

**Rhode Island Red Chicks** 

## **Getting Started with Chicks**

- Purchase from a reputable hatchery or feed dealer
- Suggest chicks be vaccinated for Marek's Disease and Coccidiosis



## **Supplies to Get Started**



- Chicks
- Brooder
- Bedding
- Heat Lamp
- Waterer
- Feed
- Thermometer
- Cleaning Supplies

## Shelter

- For Baby Chicks
  - Brooder, indoors
- For Adult Birds
  - Coops (many types available)
  - Free Range during day, coop at night
- Protection from Predators



### **Keeping Your Chickens Safe**

- Enclose outside run on all sides and top
- Bury wire screen at least 6 inches deep at perimeter of pen
- Use latches with a spring catch on any openings
- If you free range your chickens during the day, be sure the enclosure is fenced or keep watch on them
- Use small opening welded wire screen (1" x 1/2")



# Poultry theft MOSTWANTED

Don't let their cute looks fool you!



#### **The POSSUM**

Arrives at night Can dig under the pen Will kill an entire small flock **The FOX** Daylight sneak attack Grab and run Will return for seconds

#### The RACCOON Arrives at night Persistent and clever Will find any opening Can reach through chicken wire

Coyotes, hawks, bobcats & stray dogs can sometimes be the



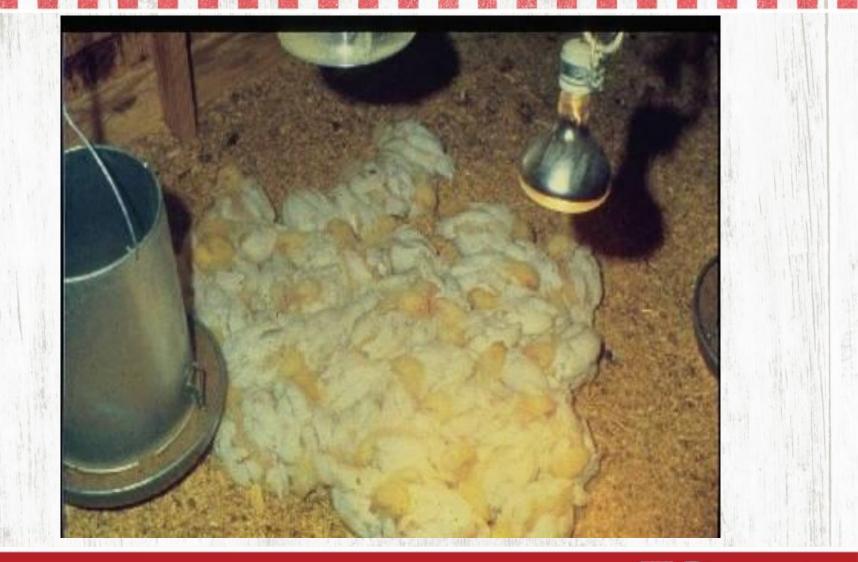
## **Examples of Healthy Brooders**

Warmth
Plenty of food
Clean water
Dry bedding
Plenty of space

Hatch to 6 weeks: Allow 1 – 2 sq. feet per chick
6 Weeks and Older: Allow 6 – 10 sq. feet per bird

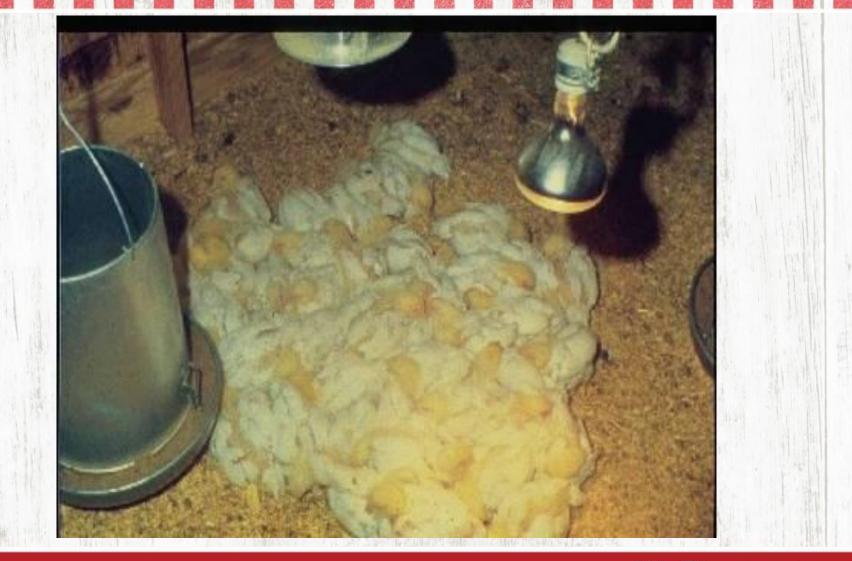
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## What's Wrong with this Picture?



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## What's Wrong with this Picture?

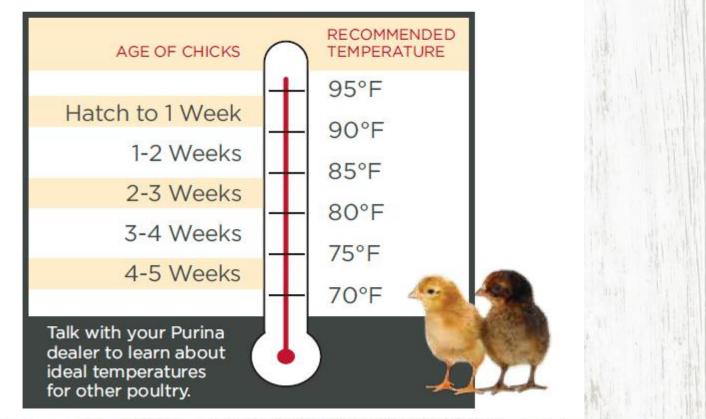


#### Answer: Birds are too cold

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## **New Chicks Temperature Chart**

#### TEMPERATURE CHART FOR YOUR NEW CHICKS

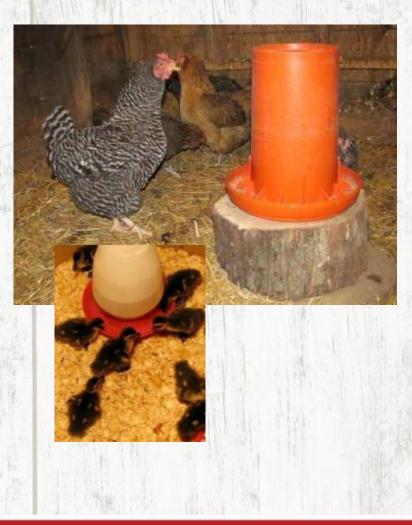


## **Getting Started Right**

#### Chicks never get over a poor start.

- If chickens can't drink, they won't eat and won't grow and/or develop strong immunity
- Chickens need to drink 2x what they eat. In the summer it may be 3 4x
- If you wouldn't drink their water, why should they?

## Importance of Water



- Disinfect waterers prior to use then weekly
- 10% mixture of bleach and water rinse thoroughly!
- Use fresh (room temp) water refresh daily
- Dip beaks to induce drinking with new chicks
- Elevate waterer after 1<sup>st</sup> week to keep clean
- Double water available capacity at 6 weeks
- Waterer should be set at level of chick's back to keep it clean

#### Tip: Layer pavers to elevate waterer as birds grow

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## When Can Chicks go outside?

- Once they have all of their adult feathers
  - 5 to 6 weeks
- Still may need a heat lamp in coop at night or to regulate temperature





## What to Feed Layer Chicks





#### Purina<sup>®</sup> Premium Poultry Feed Start & Grow<sup>®</sup>

- Crumble form easy intake for a fast start
- 18% protein for proper start
- Highly digestible protein for muscle development and excellent feathering
- Marigold Extract for brightly colored beaks, shanks and overall appearance
- Feed from hatch to lay (18-20 weeks)
- Medicated Option also available with Amprolium to prevent coccidiosis
- Excellent for layer chicks

## **Health Risks to Young Chicks**

**Intestinal Disease - Coccidiosis** 

- Common disease of the intestines of young birds
- Caused by parasites (Cocci)
- Orally ingested through preening, eating off of the ground and water
- Parasites (cocci) enter intestinal cells, multiply, rupture the cells, cause intestinal damage
- Intestinal damage results in poor nutrient absorption

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#### **Coccidiosis, continued**

- Symptoms: loose stool (sometimes with blood) birds look sick sitting, droopy & ruffled feathers
- Primarily disease of young birds
- Older birds generally develop some immunity
- Feeding Purina Start & Grow Medicated Chick Feed with Amprolium is effective to help control coccidiosis
  - Not an antibiotic
  - Should not be fed if the birds are vaccinated against coccidiosis
  - Not a panacea for poor management!

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## What is Amprolium?

- Is not an antibiotic
- Is a coccidiostat (kills coccidia)
- Acts in the intestinal tract, stays there and is not absorbed
- Mimics Vitamin B1 (Thiamine) without being metabolically active
- Causes coccidia in the intestinal tract to develop "Thiamine Deficiency" and die
- Is approved for growing birds and layers
- Has no withdrawal time

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### What is Amprolium?

#### Amprolium, continued.

- Some hatcheries vaccinate for coccidiosis
- Young chicks that are vaccinated for coccidiosis should not be fed a feed containing Amprolium
  - -- It prevents the vaccine from working
  - --The chicken won't develop immunity from the vaccine
- If vaccinated chicks consume feed containing Amprolium

-- They need to continue being fed Amprolium until they are switched to layer feed, at which time they are old enough to have developed immunity

# Benefits of Purina<sup>®</sup> Start & Grow<sup>®</sup>



#### SIMPLE INGREDIENTS

RECIPE HAS No animal by-products or fillers added No artificial preservatives added

#### BALANCED & COMPLETE

Made for chicks from hatch to first egg Freshly-ground grains from North American farms

Fortified with vitamins, minerals and essential amino acids



#### SUPPORTS IMMUNE HEALTH

Prebiotics Probiotics Yeast



#### PURINA<sup>®</sup> PREMIUM POULTRY NUTRITION

EALTH

HIGHLY DIGESTIBLE PROTEINS PORTS MUSCLE DEVELOPY

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### **Other Starter Feeds**

#### Purina<sup>®</sup> Premium Poultry Feed Flock Raiser<sup>®</sup>



- Crumble form easy intake for a fast start
- 20% protein for meat & dual-purpose birds
- Highly digestible protein for muscle development and excellent feathering
- Marigold Extract for brightly colored beaks, shanks and overall appearance
- Excellent feed for meat chickens, ducks, and geese from hatch to market weight
- Can be fed to turkeys after 8 weeks
- Also available with Amprolium
- Great for all adult birds



### **PURINA**

- BALANCED and COMPLETE-Specifically formulated to meet the niacin requirements of growing and laying ducks.
- SUPPORTS IMMUNE HEALTH-Contains PREBIOTICS and PROBIOTICS.
- 19% **PROTEIN**
- 2.3% FAT



### **Other Feeds**



#### Purina<sup>®</sup> Premium Poultry Feed Layena<sup>®</sup>

- Pellet or Crumble for hens
- 16% protein
- Elevated levels of Calcium & Manganese for strong shells
- Not medicated
- Feed at 1st egg or at 18 weeks
- DO NOT FEED TO BIRDS YOUNGER THAN 18 WEEKS

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### Introducing Purina<sup>®</sup> Layena<sup>®</sup> with Oyster Strong<sup>™</sup> System







### Importance of Calcium

- The egg shell protects the egg and keeps it fresh
- An eggshell weighs about 5 grams
   Of this, about 2 grams is CALCIUM!
  - That's **40%**!
- Average backyard hen lays 180 200 eggs per year
  - That's a lot of calcium...almost 1 pound of calcium



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# Why Oyster Strong<sup>™</sup> System?

- What do backyard flock owners want?
  - Fresh, nutritious Eggs!
- How do we make sure they get eggs to their table?
  - Proper nutrition
  - Strong egg shells
- What can we do to make those shells as strong as possible?





### Oyster Strong<sup>™</sup> System

• Oyster shell





• Source of calcium



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### Why Oyster Shell?

- Shell strength!
- Larger particle size
- Produces strong shells when paired with limestone (a source of calcium)

 #1 ingredient consumers wished was in their feed that wasn't already included!

# TO SUPPORT Strong Shells

UA2



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### What's the Difference?



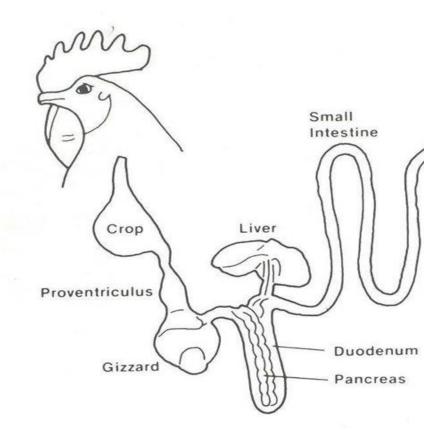
Passage rate through the bird is key





### The "Bouncer"

- The gizzard
  - Muscle that grinds feed
  - Entrance to the small intestine is controlled by particle size
  - Larger particles must stay in the gizzard until they are small enough to pass





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## **Egg Formation**

- 24-hour cycle
  - Majority of eggs are laid in the morning
- First 6 hours morning to early afternoon
  - Internal components are formed and assembled
    - Egg yolk, egg white formation, water added, membranes added
- Next 12 to 18 hours afternoon to overnight
  - Rapid shell formation
  - Calcium requirement is high



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### Back to Oyster Shell

- Longer time in gizzard  $\rightarrow$  longer time in the gut
- Calcium is slowly released into the small intestine
- Even when the bird is not eating





# Benefits of Oyster Strong<sup>®</sup> System

- The oyster shell is incorporated into the pellet
- Oyster shell stays in the digestive tract longer
- Our proprietary recipe of oyster shell along with limestone, minerals and vitamins such as Vitamin D provides calcium at night when the hen needs it most
- Helps produce strong shell strength







### Introducing Purina<sup>®</sup> Layena<sup>®</sup> with Oyster Strong<sup>™</sup> System







#### Purina<sup>®</sup> Layena<sup>®</sup> Plus Omega-3

Feed to layers



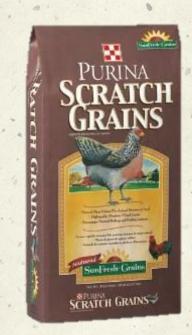
- Each egg contains 250 mg Omega-3 when fed for at least 3 weeks
  - 50 mg Omega-3's in 56 g store-bought egg
- Formulated with Oyster Strong<sup>TM</sup> System for good production and strong egg shells
- Contains prebiotics and probiotics to support health
- Vegetarian formulation
  - NO added hormones or antibiotics



### SunFresh<sup>®</sup> Recipe

X

### Scratch<sup>®</sup> SunFresh<sup>®</sup> Recipe



- Blend of two
- Stimulates basic scratching and pecking instincts
- Use as a treat
- Should not be used as the sole diet for layers



#### **Supplemental Feeding**

- FLOCK BLOCK<sup>TM</sup>
- Similar to Scratch
- Whole Grain Supplement
- Restores Pecking Instincts
  - **Going on Vacation?** 
    - Try Flock Block<sup>™</sup>
    - 25# Block
    - Feeds up to 25 birds for 2-3 days (maybe longer)



# Purina<sup>®</sup> Organic

#### **Purina® Organic Starter-Grower**





- Proper calcium to phosphorus balance to support strong bones
- Highly digestible proteins to support muscle development

- Non-GMO
- Crumble only

# **Purina®** Organic

#### **Purina® Organic Layer Feed**



- Rich in antioxidants, to support immune health
- Essential nutrients for nutritious eggs
- Non-GMO

USDA

ORGANIC

 Available in a crumble or a pellet

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# **Purina<sup>®</sup> Organic**

#### Purina<sup>®</sup> Organic Scratch



- 3-grain scratch
- Encourages natural pecking and feeding behavior
- Non-GMO

USDA

ORGANIC



- BALANCED and COMPLETE NUTRITION-22% PROTEIN
- PREBIOTICS and PROBIOTICS- SUPPORTS
   DIGESTIVE and IMMUNE HEALTH
- SIMPLE INGREDIENTS- CONTAINS NO ANTIBIOTICS OR ADDED HORMONES.

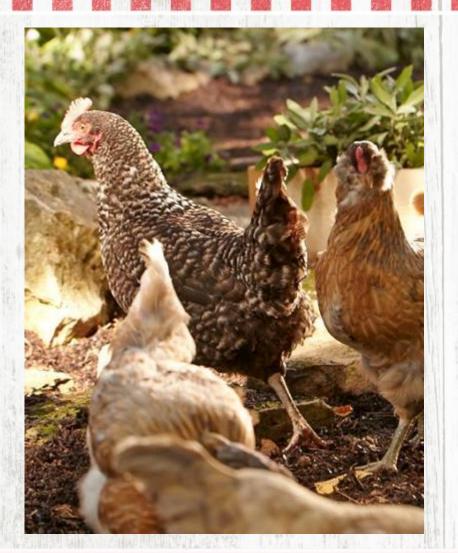
### **Bird Behavior**



- Healthy, happy birds forage, peck and chatter
- Most active early morning, late afternoon
- Routinely take dust baths
- Preen feathers
- Appear alert, brighteyed, inquisitive

### **Pecking Order**

- Chickens have a social order
- One hen will be dominant
- Remaining hens will fall into an accepted order below the dominant hen
- Very stable structure until a bird is removed or new birds added; then order must be re-established, often physically



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## How do chickens handle the cold?

• Pretty well!

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- No scarf or boots required...
- Needs include:
  - Food
  - Water
  - Shelter
  - Clean bedding
  - Space to stretch the wings



# **Enjoy Fresh Eggs and Happy Chickens... Even in the Winter**

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**PURINA** 

- Increase feeding rates
- Prevent water from freezing
- Offer plenty of space for natural behaviors

# WHAT TO WATCH FOR WHEN RAISING CHICKS

### **Concern: Pasty Butts**

- Caused by stress & changes in temperature
- Can cause serious illness and lead to death
- Treat by gently cleaning with warm soap and water and thoroughly drying the young chick
- May have to repeat for several days until the chick grows out of this condition



### **Concern: Feather-Picking**

#### Can be caused by:

- Overcrowding (stressful, leads to competition for food and water)
- Overheating
- Boredom & or longer daylight hours
- Very bright lighting
- Poor nutrition lack of protein
- Hormones kicking in at sexual maturity
- Mixing birds

#### **Corrective measures:**

- More space
- Better ventilation
- Less light/dimmer light
- More feed, water
- Barriers & places to hide
- Small handfuls of hay

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# **Poisonous Foods for Chickens**

- · Chocolate (Dark, light, milk, white chocolate are all included)
- Apple Seeds
- Peach, Cherry, Apricot, Nectarines and Pear pits (The fleshy part of the fruit is fine)
- Avocado (The whole fruit, including guacamole)
- Onions
- Alcohol
- Tomato plant, including leaves and stem (The fruit is fine as long as it is ripe)
- Caffeine (Which is found in most Pop drinks, Energy drinks and coffee)
- Salt (So yes that means no McDonald French fries)
- Raw Beans (ex: raw Kidney Bean, one is enough to cause serious harm, cooked is fine)
- Potato plant (As well as uncooked or unripe potatoes and supposedly potato peelings, cooked is fine)
- Tobacco (Inspect your yard for any cigarette butts that may have blown in)

# Do Dogs & Cats Play Well with Chickens?

Very dependent on individuals

-- herding breeds of dogs have strong instinct to "move" the birds, sometimes to excess

-- some dogs may learn to guard the birds

-- cats hunt, ignore, or get along with chickens

-- some cats and dogs may even be afraid!



### **Health & Sanitation**

The goal of biosecurity is to:

- Reduce disease transmission
- Protect birds & protect family!



# Practicing Good BioSecurity

#### Sanitation

- Clean coop and equipment
  - Clean coop and remove dirty litter on a regular basis
  - Clean dirt from materials and wash with a disinfectant 10% solution of water and bleach is effective. Rinse thoroughly
- Wash hands after handling birds, eggs, etc.
- Gather eggs often
- Remove damp or moist litter or littler that is too dry and dusty
- Wear clean clothes, including clean shoes



### **More Chicken Resources**

#### What resources are there to learn more?

- www.purinamills.com/chicken-feed
- Hatchery Websites
  - McMurray (<u>www.mcmurraryhatchery.com</u>)
  - Ideal (<u>www.ideal-poultry.com</u>)
  - Privett (<u>www.privetthatchery.com</u>)
  - Mt. Healthy (<u>www.mthealthy.com</u>)
  - Ridgeway (<u>www.ridgewayhatchery.com</u>)
- Other Websites
  - www.mypetchicken.com
  - www.poultryone.com
  - www.backyardchickens.com
  - <u>https://www.youtube.com/watch?v=PedajVADLGw</u>



A COMPLETE GUIDE TO RAISING YOUR HAPPY BACKYARD FLOCK

### **A Chicken Care Checklist**

- Daily replenish feed & water
  - -- clean bedding
  - -- check temperature
- Weekly disinfect feeders, waterers
  - -- lower temperature 5°
  - -- adjust height of feeders, waterers
- Monthly evaluate space allotment
  - -- Waterfowl may have swimming water at 4 weeks
  - -- Follow recommendations for changing feeds as birds mature



# **Can Chickens Fly?**



# <u>Yes</u>!

- They can escape and are more susceptible to predators
- Clip primary feathers on one wing to prohibit flight

# Why Aren't They Eating?

- They may not have enough clean water
- The water could be directly under the heat lamp too hot
- The water may be dirty
- The water may be frozen
- Feeder may have residual old feed that is spoiling
- It may be too hot and/or humid outside

Keep it fresh and clean. Add more space/ventilation. Supplement layers with oyster shell during hot periods when they eat less.

# Why Aren't They Eating?

- Chickens may be sick
  - Isolate sick chickens, and keep them away from others
  - Provide warmth, water and feed
    - Contact a veterinarian

# Why Won't They Lay?

- Hens begin to lay at 16 20 weeks
- Increasing day length stimulates birds that are ready to lay (birds need 12–16 hours of light).
- Decreasing day length in the Fall signals hens to stop laying.
- If birds don't have clean water they will not eat and will not lay.
- Birds are too hot to eat enough

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### Why Won't the Hens Lay?

Hens need 16 hours of light to lay optimally:

- In the fall keep light to 16 hours by adding a light and placing it on a timer
- Low intensity 40 watt bulb. Just need enough light to see surroundings
- Do not keep lights on 24 hours



# What is Molting?

#### A natural process in which feathers are lost and replaced

- Can occur at any time but usually stimulated by decreasing day length in the fall
- Will re-occur each fall. Providing 16 hours of light may delay its onset
- Lasts 8 16 weeks; no eggs are laid
- Jump-starts egg production
- Allows birds to refresh and rejuvenate! Feather loss moves from front to back



### **Do Chickens Need Grit?**

- Not needed for chickens in cages because they eat a highly digestible diet
- Backyard chickens eat a variety of coarse foods and unground materials.
- Grit is helpful in digestion of coarse food particles
- Birds often eat very small stones for this purpose

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### Why Do Hens Go Broody?

- It's a natural tendency for a hen to sit on her nest of eggs to hatch chicks
  - Breed-specific Cochins & Silkies are champions
- Reduce broodiness by:
  - Collecting eggs more often
  - Locking hen out of her nest



### **How Does Egg Eating Start?**

Hens accidentally step on the egg and break it, then taste it and like it

There isn't enough nesting material to protect eggs

Eggs are in the nest too long, exposed to traffic

Shells are too thin



# **How to Correct Egg Eating?**

- Gather eggs frequently 2 – 3 times per day
- Feed a complete feed like Purina<sup>®</sup> Premium Poultry Feeds with calcium
- Add more nesting material
- Cull problem birds





### How to Add Birds to a Flock

- Never mix young birds with old high risk of disease and cannibalism for the young birds
- Wait until the younger birds are fully grown and the same size.
- Try to add a number of birds at the same time to avoid the dominant hens picking on one or two newbie's
- <u>All</u> new birds should be quarantined in a separate room for 30 days to make sure they are healthy and free of disease



### **Biosecurity:** The Key To Keeping Your Birds Healthy



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#### <u>Definition of Biosecurity</u>: procedures intended to protect against disease

You are the best protection your birds have.

### **I.** Keep Your Distance.



 Restrict visitor access to your birds. Visitors may unknowingly bring disease.

 Do not let domestic birds have access to areas wild birds use, including ponds or standing water.

# **2.** Keep It Clean.



- 1. Use dedicated footwear and clothing when working with your flock.
- 2. Wash hands before and after working with your flock.
- Keep feed pans, water containers and other equipment clean. Clean out manure regularly.

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### 3. Don't Haul Disease Home.



1. Buy birds from reputable sources.

2. Quarantine any new birds before adding into an established flock.

# 4. Don't Borrow Disease From Your Neighbor.

Thoroughly clean and disinfect any borrowed item before using it with your flock.

# 5. Know the Warning Signs of Infectious Bird Diseases.



- 1. Sudden increase in deaths, with no sign of predator attack
- 2. Sneezing, coughing, or trouble breathing
- 3. Diarrhea
- 4. Lack of energy, poor appetite5. Discolored wattles, comb or legs

### 6. Report Sick Birds.



Call 1-866-536-7593 and you will be put in touch with a local regulatory veterinarian.

There is no cost for an investigation, if one is needed.

Wash your hands before and after coming in contact with poultry



Let's keep our poultry healthy together aphis.usda.gov



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### **Thank You!**



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