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Basic Management of Small Poultry Flocks

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There are several basic needs that need to be provided for poultry. These are feed, water, fresh air, light, darkness, proper thermal environment, protection (from the elements, predators, injury and theft) and proper space. Proper housing and equipment will take care of many of these items. Poultry and other animals function normally when they exist in harmonious balance with the other living forms and the physical and chemical factors in their environment. Therefore, it is the role of the poultry owner to properly manage the animals in their care.

HOUSING

Poultry require a dry, draft free environment. Depending upon the number of birds to be housed, almost any type of building that provides controlled ventilation, such as windows and doors, can be used. Birds should be reared in high, well drained areas. The windows of the coop and, outside run should face south to allow maximum exposure to the sun throughout the year. This helps with warmth in the winter and dryness during the rest of the year.

If you are building new, consider a concrete floor and starting your walls with two concrete blocks. This will prevent rodents, snakes and other predators from digging under the walls and floors for entrance into the coop. If you use plywood for floor construction, consider using two layers of 3/4" CDX plywood, with a layer of 1/4" or 1/8" galvanized wire mesh between the layers, then raise the floor off the ground with posts or 6" x 6" runners. Using runners allows you to move the coop as needed. Being off the ground also helps prevent rot and moisture in the coop. All this helps prevent predators from chewing through the floor. Some have found that using the double layer of plywood with wire mesh and insulation between the layers helps keep the coop warmer in the winter. Windows

Department of Animal Science 3636 HORSEBARN ROAD EXTENSION, UNIT 4040 STORRS, CT 06269-4040 PHONE 860.486.2413 FAX 860.486.4375 www.animalscience.uconn.edu should also be covered with wire mesh to keep wild birds and other predators out. For summer, a wire mesh screen door helps keep the coop cooler at night.

Ventilation provides comfort for the birds by removing moisture, ammonia and other gases; provides an exchange of air and helps control the temperature of the pen. You can use natural or gravity fed ventilation with windows, flues and slats. Or you can use forced air ventilation if you have a larger number of birds. In a small coop (less than 150 sq ft of floor space) you can use a bathroom fan in the ceiling and slats in the walls or windows to remove excess moisture in the winter, much as it does in your home. It is important to remove excess moisture and ammonia from the coop, especially in cold weather when ventilation is at a minimum.

For predator protection, keep your birds confined with fence and covered runs. Outside run fencing should be buried at least 12" to 18" with an 6" to 8" "L" or "J" to the outside, backfilled with rocks and soil to prevent digging To prevent problems with flying predators. predators, cover your outside runs with mesh wire or netting. A 3-4 ft. grid over the pen made from bailing twine has also proven effective against flying predators. A good outside run can be made by digging 12-18" with a slight slope away from the coop, and laying plastic sheeting down (if you don't have good drainage) with a drain pipe at the end to catch runoff. Add 4-6" of sand, cover with 1/4" wire mesh, add 4-6" of coarse gavel, cover with 1/4" wire mesh and top with 4-6" of pea-gravel. Put a barrier around the run of 2x6" to keep the gravel in place. Or you can use a good ground cover of millet, broomcorn, sorghum or other tall leafy vegetation which provides hiding space for the birds.

Space:

Birds need adequate space for feeding, exercise, breeding, nesting and roosting.

Minimum Space Requirements			
Type of Bird	Sq ft/bird inside	Sq ft/bird outside runs	
Bantam Chicken	1	4	
Laying Hens	1.5	8	
Large Chickens	2	10	
Quail	1	4	
Pheasant	5	25	
Ducks	3	15	
Geese	6	18	

Roosts: Provide chickens with 6-10 inches of roost space per bird. Round roosts are the best, and a tree branch of about 1" to 1.5" in diameter works well. Meat birds and waterfowl do not require roosts.

Nests: It is best to provide one nest box for each 4-5 females in the flock. 12-14" cubes with front open with perching space for the birds to stand on while entering the nest.

Floor material: Litter floors of wood shavings is the best. Wood has an excellent capacity to absorb moisture and then rerelease it into the air. Whatever you use, keep it clean and dry.

FEED AND WATER

Birds need free access to fresh feed. Feeders can be made of wood, metal, or plastic, but it is important to provide about 2-3 linear inches of feeder space per bird and up to 6" for meat type birds and turkeys. They should be adjustable in height so the lip of the feeder will be at the level of the back of the bird when standing. Keep troughs only half full to prevent feed wastage.

Fresh water should always be available to your birds, inside or outside. If using an open waterer keeping the lip of the waterer level with the back of the bird is essential. For winter watering, metal waterers can be placed on low temp heaters, keeping the water at about 50°F. However, nipple waters are the best, since the birds cannot produce suction in their mouth. I recommend them over any open watering system. Use of a fish tank heater in buckets used for nipple waterers helps prevent freezing in the winter.

Commercial poultry feeds have been specially formulated for the type and age of your birds and are the best source of nutrition for your birds. For egg layers, a 14 or 16% CP laying mash or crumbles can be fed from the first egg until out of production. Chicks should be fed a 18-23% CP medicated starter, unless they received cocci-vac, then use a non-medicated starter feed, for six weeks. Then put on a 16-18% CP layer grower feed till 15 weeks or first egg, then on to the layer feed. Broilers should be feed a broiler starter (21-23% CP) feed for 3 weeks, and a 18-20% CP grower/ finisher till market.

LIGHT

Poultry require artificial lighting to maintain egg production during the short days of winter. Poultry are long-day breeders and we normally provide laying hens about 16 hrs of light per day throughout the year. Light timers set to come on at 5 am and off at 9 pm will supply the hours required. Low wattage CFL, LED or Incandescent lamps that supply about 1 foot candle of light at bird level is adequate. Use a 2700K lamp. Never decrease the hours of light on laying hens or increase the hours of light on a growing bird.

BROODING

Raising and brooding baby chicks requires special care. Chicks need to be reared in isolation for disease prevention. Thev should be reared in a clean, disinfected environment. Baby chicks cannot properly regulate their body temperature for a few days after hatching and require a heat source. Heat lamps, brooder stoves, hovers and infrared heaters work well. A brooder guard, a ring of cardboard or plastic at least 18" high on the floor circling the heat source keeps the chicks from getting too far from the heat and reduces drafts. Watch the birds. if they huddle under the heat source, they are too cool, if off to one side, a draft, if spread evenly, just right. For newly hatched birds is it best to provide them with water for the first couple of hours before giving them solid feed. This helps clean out their excretory system. If you get chicks from a distant hatchery through the mail, then give them a 5% sugar water solution for the first few hours to boost their energy level.

DISEASE MANAGEMENT

Refer to UConn Poultry Pages for more detailed information on health and diseases of poultry.

Some Resources for Small Scale Poultry Farms:

http://web.uconn.edu/poultry/poultrypages/

http://extension.unh.edu/Agric/AGDLEP/PoulRa b.htm

http://www.merckmanuals.com/vet/index.html

www.poultrypress.com

http://www.feathersite.com/Poultry/BRKPoultry Page.html

http://www.backyardpoultrymag.com/

http://www.backyardchickens.com/coop.htm

www.amerpoultryassn.com/ the APA

www.bantamclub.com/site/ the ABA

www.showbirdbid.proboards.com breed clubs

http://heritagebreedpoultry.com/index.php

<u>www.poultrycongress.com</u> Northeast poultry congresss with links to all New England Shows

Forsham Cottage Arks; http://www.forshamcottagearks.co.uk

Henhouses http://www.henhouses.co.uk

www.firststatevetsupply.com Vet supplies

http://pubs.ext.vt.edu/category/poultry.htmhttp:// gallus.tamu.edu/library/dother.html (links to many poultry sites)

http://extension.unh.edu/Agric/AGDLEP/PoulRa b.htm

http://www.ansi.okstate.edu/poultry/

Some good Books and resources for poultry:

Storey's Guide to Raising Poultry - Leonard S. Mercia, Storey Books, Pownal, Vermont 05261 ISBN 1-58017-263-6

A Guide to Raising Chickens - Gail Damerow Storey Books, Pownal, Vermont 05261 ISBN 0-88266-897-8

Beyond Cornish Crosses

Noll's Poultry Farm Kleinfeltersville, PA 17039 717-949-3560 717-949-3722 FAX

Cebe Farms P.O. Box 1404 Ramona, CA 92065 760-789-8221 Mt-Di Poultry Farm and Hatchery Owner/ Operator: George Dibert Address: 131 Hen House Lane Altoona, PA 16602 Phone: 814.942.7024 Email: <u>mtdifarm@atlanticbb.net</u> Cornish Cross, Red ranger, Rosambro

Freedom rangers J.M. Hatchery 178 Lowry Road, New Holland, PA 17557 (717)336-4878

Shady Lane Poultry Farm, Inc. 520 Agawam Road Winchester, KY 40391 859-737-2636 New breeds of Red or Gray Broilers specific for range rearing:

Gormavian Farms Gary Proctor – 860-716-9064

Burr Farms – Marc Johnson – 860-774-3315

Moyer's Chicks 266 E. Paletown Road Quakertown, PA 18951 Ph. 215-536-3155 Fax 215-536-8034 Several Meat and Layer Breeds

Kosher King (Silver Cross) Myers Poultry Farm 966 Ragers Hill Road South Fork, PA 15956 USA (814) 539-7026 <u>MyersPF@juno.com</u> www.myerspoultry.com

A more complete listing of hatcheries throughout the U.S. can be found at <u>www.aphis.usda.gov/vs/npip/</u> and at <u>www.poultryconnection.com/hatchery.html</u>.

Examples of hatchery Web sites

www.belthatchery.com-559-264-2090

www.esteshatchery.com-800-345-1420

www.mcmurrayhatchery.com-800-456-3280

www.moyerschicks.com-215-536-3155

www.mthealthy.com/index.html—800-451-5603

www.privetthatchery.com-877-774-8388

www.townlinehatchery.com/chicks.html 772-6514

http://www.idealpoultry.com/ 254.697.6677

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Rev 4-2017