

Zoning Issues and Poultry Production:

Facts for County Planners

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Poultry production is the number one agricultural enterprise in Georgia, accounting for approximately 50% of the value of farm products produced. Modern poultry farming originated in north Georgia in the late 1940's and has continued to grow and expand across Georgia as consumer demand for poultry products has increased. Georgia ranks number one in poultry production in the United States with more than 4,000 family owned poultry farms producing in excess of \$5.0 billion annually in farm gate value. Georgia farmers have been producing poultry for more than 60 years utilizing state of the art technology, housing systems, and best management practices. As a result, Georgia poultry farmers are among the best in the world at growing chickens. To protect this vital business for Georgia farmers, it is important that agricultural zoning ordinances be prudently devised and factually based (1). The following are some facts regarding poultry farming for consideration by county planners and decision makers:

Economic Impact. Poultry farms make significant contributions to the local economy. An average size poultry farm (4 houses) represents more than **\$800,000 in investments** in just housing and equipment and results in more than **\$160,000 annually in gross income** (2), most of which supports the local economy. In addition, the average size poultry farm will pay between **\$4,000 and \$6,000 in local property taxes annually** just for the production houses. Thus, poultry farming makes significant economic contributions to many of Georgia's counties. **For example, a county with 100 poultry houses will have in excess of \$4 million annually in gross farm income just from poultry production and the owners of these houses will pay in excess of \$100,000 in property taxes each year.** A University of Georgia study (3) has clearly shown the economic benefits of poultry production for Georgia farmers. According to this report, total farm incomes for counties with poultry production were significantly greater than total farm incomes from counties without poultry. This study also reported that **net farm income for poultry counties was almost three times the value of those for non-poultry producing counties.** The economic importance of poultry production for Georgia farmers and local communities is well documented.

Environmental Considerations. Opponents of poultry farming will often contend that environmental pollution is a major problem associated with poultry farming. This is not only a distortion of the truth, but is a serious misrepresentation of the facts. **A properly managed poultry farm will not pollute or cause environmental problems for neighbors or the community and, in fact, it can be very beneficial in providing a valuable natural fertilizer for landowners.**

Poultry farms produce manure nutrients as a by-product of growing birds. These nutrients have substantial value as organic fertilizer and are often applied to land in place of commercial fertilizers. These manure nutrients have the potential, like any fertilizer material, to cause water pollution problems if improperly handled. In reality, poultry litter has been applied to fields in Georgia for more than 60 years with no evidence that this practice has caused any significant water pollution problems. In fact, poultry production and the associated application of poultry litter are considered primary reasons for the reclamation of once seriously depleted soils in north Georgia. There are some legitimate concerns regarding the appropriate application of poultry litter, and as a result, Georgia poultry growers are utilizing nutrient management plans (NMPs) to protect the state's water resources (4). The NMP program being used by poultry farmers has been developed at the University of Georgia and approved by the Georgia Environmental Protection Division and the Georgia Department of Agriculture. In some cases, large poultry farms (CAFOs) are required to operate under a permit from EPD. In addition, Georgia's EPD has the authority and responsibility to intercede and regulate any farm in the state causing an environmental problem. This, however, has rarely been the case in Georgia.

Air Emissions from Poultry Houses. The adoption of the tunnel ventilation system for poultry houses, which places exhaust fans at one end of the house and concentrates the discharged air, has led to the perception by some people that these fans cause problems for neighbors. Exhausted air from these tunnel fans, however, only results in measurable air movement within about 100 feet from the houses. More importantly, research at the University of Georgia (5) has demonstrated that the relatively small amounts of ammonia particles and particulate matter discharged from these houses are dispersed into the atmosphere very quickly after emission. **At 100, 200, 300 and 500 feet from the fans, these particles could not be measured in any significant level. In this study, ammonia concentrations were less than 1 ppm 50%, 75%, 85% and 90% of the time respectively, and after 500 feet the levels were no different from those observed in normal air samples. In all measurements, the ammonia levels were significantly less than the lowest detectable ammonia threshold level of 5 ppm.** These research-based facts do not support the contention that exhausted air from poultry houses is a source of damage for neighbor's property or health. This is important information relative to establishing setbacks for poultry house locations and is discussed more fully in a companion publication (6).

Poultry Farms and Odors. Uninformed individuals often think that poultry farms will smell so badly that no one can live near them. This is incorrect. The vast majority of poultry farms are family operated and, in most cases, the operators and their families live next to the production houses. **Properly operated and managed poultry houses emit minimal odor.** This is due to advancements in ventilation and drinking systems for production houses that keep them relatively dry and free of any significant odors. Occasionally, wet conditions can develop in a poultry house resulting in some odor, but these situations are usually short lived and can be corrected with management. These situations may occur more frequently with breeder and layer operations than with broiler farms because of the extended period of operation with birds in the house.

It is almost impossible to operate a livestock farm without having some odor as a result of normal production practices. This is true of poultry farms as well, but with good management these occurrences are only occasional and provide only minor if any inconvenience to neighbors. Most of the odors associated with poultry production occur when the houses are cleaned out and the litter is spread as a fertilizer, thus **most odors associated with poultry production have little to do with the location of the houses.** Clean-out schedules vary but are usually no more than once or twice a year. Litter application practices can reduce the occurrence of this minor annoyance during spreading, but may not totally eliminate it. **Odors produced as a result of poultry production are generally minimal and occasional and are not sufficient reason to deprive landowners in agricultural areas the opportunity to participate in an important agricultural enterprise. It is important to realize that the long-term viability of a family farm may depend on the owner's ability to diversify income by the addition of poultry houses. Thus excessively restrictive zoning regulations can have serious economic consequences for a community and its farmers.**

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