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Economic Impacts of Veterinary Medicine in Ohio

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Economic Impacts of Veterinary Medicine in Ohio

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SYNOPSIS

Introduction

This research defines and quantifies selected economic factors associated with the veterinary medical profession in Ohio. Food animal agriculture is already a significant force within the state's economy. Veterinary medical professionals help maintain the health and well-being of both food animals and companion animals. In addition, the profession contributes expertise through various activities designed to assure a safe food supply for all citizens. The veterinary medical profession is of particular significance for all Ohio citizens because of the role veterinary medical professionals' play in helping assure a safe food supply and maintaining the health of food animals and companion animals. This research highlights the direct economic contribution of veterinary medicine and analyzes the geographic distribution of practicing veterinarians within Ohio.

It is always difficult to quantify the economic contribution of a diverse and complex group of professionals contributing in numerous ways to the well-being of Ohio's citizens. However, economic modeling techniques, such as input-output models, allow the analysis of sector economic contributions in a consistent and methodologically defensible way. This synopsis provides the highlights of the Ohio analysis from the detailed report.

Analysis and Methods

This study is based on an input-output model, using 2008 input-output relationships among every industry in Ohio that is used to estimate numerous metrics that quantify economic impact. The primary metrics are output, contribution to gross state product (GSP), and employment. Another vital metric is the economic multiplier for various sectors of the Ohio economy. The multipliers allow estimation of both the direct and indirect or secondary economic impacts of a particular industry.

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Lonnie King of the College of Veterinary Medicine at The Ohio State University, Michael Bumgarner of Ohio Farm Bureau, Jack Advent of the Ohio Veterinary Medical Association, Michael Butler of NCT Ventures, and Melissa Weber of the College of Veterinary Medicine at The Ohio State University. In addition, the research benefitted from substantial contributions to data and graphic analyses from Roger Hauke and Emily Chappie, both Agribusiness and Applied Economics majors in the AED Economics Department at The Ohio State University.

With regard to methods, all data analyzed is for the 2008 calendar year. All industry definitions throughout adopt the North American Industrial Classification System (NAICS) for defining industries. This is customary for this type of analysis. A six-digit code precisely defines the industry being analyzed and is the same definition throughout all of North America, not just the United States.

Findings

Veterinary medicine is engaged in maintaining the health of food animals and companion animals, in assuring a safe food supply, in scientific research and development (R&D), in teaching and R&D in academia, and in numerous novel activities such as government agencies (The Ohio Department of Agriculture, for example), military, zoos, and working for private firms. Most veterinarians are self-employed; nationally it is estimated that 80 percent of the veterinarians are self-employed and Ohio is not likely to be substantially different from the national number.

The direct role of veterinarians in maintaining the health of food animals is one of their better-known activities. The aggregate contribution of the food and agriculture sector to the general economy of Ohio is one important element of quantifying the economic impact of veterinary medicine. The agrifood sector is defined in a supply chain context consisting of broad agrifood sectors including farm inputs, agricultural production, food manufacturing, food wholesaling and retailing, and food service. The analysis indicates that for 2008 the food and agricultural cluster of Ohio's economy contributed 11 percent of the output, added 8 percent to Ohio's gross state product (GSP), and accounted for 13.5 percent of the total employment in the Ohio economy.

In 2008, the Ohio economy generated a gross state product (GSP) of \$471.5 billion. The food and agricultural cluster's share of this GSP was \$39.0 billion, or \$8.27 of each \$100 of Ohio GSP. For 2008 the contributions to GSP for the five components of the agrifood cluster are \$1.6 billion for farm inputs, machinery, and professional services; another nearly \$3.8 billion from agricultural production; about \$10.6 billion from processing; an additional \$12.3 from food wholesaling and retailing; and another \$10.2 billion in food services.

The economic impact of veterinary medicine is \$1.96 billion on Ohio. This is the amount of output added to the Ohio economy from veterinary medicine in 2008, considering the direct, indirect, and induced effects of the sector. In terms of jobs, the total influence of veterinary medicine is an additional 33,382 in Ohio. Moreover, veterinary medicine contributes a total of \$1.4 billion to Ohio's gross state product.

The direct economic activity from veterinary medicine in Ohio also is substantial. There are 14,778 employed directly in the veterinary medicine sector. The direct output of veterinary medicine is estimated at \$1.1 billion in Ohio. The direct contribution of veterinary medicine to GSP is estimated at \$503.6 million. There are nearly 1,100 veterinary medicine establishments in Ohio with approximately 11,780 employees.

Veterinary medicine is a partner in Ohio's livestock, equine, food animal industries, in addition to companion animals. Many sectors of the economy rely either directly or indirectly on the expertise and services of veterinarians. For 2008 in Ohio, it is estimated that there are over 3,627 establishments in various industries that are related to veterinary medicine, Table 1. These establishments employed a total of 59,088 and had an annual payroll in excess of \$3.0 billion, Table 1. The industries included in this mix range from pet food stores to animal shelters and zoos.

Companion animal population in Ohio is substantial. Ohio has an estimated dog population of 3,210,480; a cat population of 3,621,949; pet bird population of 497,828, and a horse population of 320,032. The distribution of companion animals by county within the state is concentrated in urban and suburban areas of the state.

Food animal production in Ohio includes beef cattle, dairy cattle and milk, hogs, broilers, eggs, other poultry and miscellaneous farm animals such as sheep. This sector contributes a total economic output in Ohio of \$2.7 billion and contributes \$846.9 million to GSP. This food animal sector of the agricultural economy adds another 27,566 jobs to employment.

A recent analysis of the national situation on veterinarians reveals that there is a growing shortage of veterinarians nationwide. The most critical shortage is likely to be for veterinarians who care for animals raised for food, serve in rural communities, and have training in public health. According to the American Veterinary Medical Association, the nation's food supply could at risk along with efforts to protect humans from zoonotic diseases. There are space constraints at the country's 28 veterinary colleges, which can graduate only about 2,500 students a year combined. The federal government employs more than 3,000 veterinarians. This is only a small percent of the federal workforce but these veterinarians play a crucial role in helping to protect people and the economy from animal diseases.

Table 1. Economic Importance of Sectors Related to Veterinary Medicine, Ohio, 2008

Industry Definition	Description	Number of Employees	Annual Payroll (\$1,000)	Number of Establishments
115210	Equine Boarding	389	8,075	97
311111	Dog and Cat Food Manufacturing	1,086	51,574	12
311119	Other Animal Food Manufacturing	1,299	61,409	55
325412	Veterinary Medical Preparations Manufacturing	3,469	231,627	20
339112	Veterinarians' Instruments and Apparatus Manufacturing	3,610	210,909	49
423490	Veterinarians' Equipment and Supplies Merchant Wholesalers	1,691	80,403	79
424210	Veterinarians' Medicines Merchant Wholesalers	7,068	380,895	717
424910	Farm Supplies Merchant Wholesalers	2,418	98,240	262
453910	Pet and Pet Supply Stores	4,307	66,606	359
541710	Biotechnology Research and Development Laboratories or Services in Veterinary Sciences (including biotechnology R&D)	17,182	1,428,011	404
541940	Veterinarians: Offices, Practice, Testing Services	11,780	328,599	1,087
711212	Racetracks	1,003	25,452	32
712130	Zoological Gardens and Petting Zoos	1,810	46,328	22
812910	Pet Boarding and Animal Shelters	1,976	27,203	432
	Totals	59,088	3,045,331	3,627

Notes and Source: Computed from U.S. Census Bureau, *County Business Patterns*, 2008, Washington, DC [http://www.census.gov/econ/cbp/index.html] using the North American Industrial Classification System (NAICS) 6-digit industry definitions.

Economic Impacts of Veterinary Medicine in Ohio

INTRODUCTION

Rarely does a profession contribute to the well-being of society and the average citizen to the degree of veterinary medical professionals. The profession not only cares for sick animals, maintains the health of well animals, but also contributes significant expertise to a wide array of commercial areas such as food safety and diagnostic capabilities, in both industrial and government agency settings. Numerous veterinarians are engaged in private practices or are employed by public sector agencies, such as the Ohio Department of Agriculture. In addition, Ohio has an internationally recognized College of Veterinary Medicine at The Ohio State University. This College engages many veterinarians as academic faculty along with numerous ancillary professionals that work in the teaching hospital at the University.

This research defines and quantifies selected economic factors associated with the veterinary medical profession in Ohio. Animal agriculture is already a significant force within the state's economy. Veterinary medical professionals help maintain the health and well-being of food animals and companion animals. In addition, the profession contributes expertise through various activities designed to assure a safe food supply for all citizens. The veterinary medical profession is of particular significance for Ohio because of the linkages it provides between the state's food supply and its agricultural sectors.

It is not easy to quantify the economic contribution of a diverse group of professionals contributing in numerous ways to the well-being of Ohio's citizens. However, there are economic modeling techniques, such as input-output models, that allow the analysis of sector economic contributions in a consistent and methodologically defensible way. The broad goals of this applied research is two-fold: 1) to determine the economic impact of the veterinary medical profession on Ohio's aggregate economy; and 2) to analyze selected spatial aspects of the at-risk animal populations and the spatial distribution of practicing veterinarians. The analytical framework to analyze the economic contribution of the veterinary medical profession is a sophisticated economic modeling technique known as input-output modeling.

This study provides the first economic analysis of veterinary contributions to Ohio. The research results assist in understanding the characteristics and economic magnitude of veterinary medical professionals, provides a benchmark for political action committees, and more generally, provides information describing the full scope of veterinary medicine in Ohio. The data and information developed in this project is of interest to policy-makers, the veterinary medical profession, and the food and agricultural industries. This research provides information vital to understanding the economic influence of the veterinary medical profession in the state of Ohio.

Objectives and the Report Layout

To accomplish the broad goals of this research, selected economic factors relevant to the economic influence of veterinary medical professionals in Ohio are defined and quantified. The four specific objectives of this research are to:

- Objective 1: Evaluate the economic influence of veterinary medicine on Ohio's aggregate economy, including metrics such as output, employment, and contribution to Ohio's gross state product (GSP)
- Objective 2: Analyze the economic value and location of at-risk animal populations relevant to the veterinary medical profession by region within Ohio
- Objective 3: Evaluate spatial aspects of the veterinary medical profession within Ohio, analyzing which geographic areas may be underserved using benchmarking (ratio analysis)
- Objective 4: Estimate the economic multipliers for the veterinary medical profession within Ohio.

This report will first define and describe the veterinary medicine workforce and its relationship to the macro economy. This description includes data on the number of veterinarians and broad specialties. The analysis presented provides information for both national and Ohio employment types. The number of establishments for private practice veterinarians in Ohio is part of the analysis as well.

The next portion of the analysis is devoted to the economic impact of the agrifood sector on the economy of Ohio. This information is key to understanding the economic contribution of veterinary medicine to the economy of Ohio. The economic metrics presented serve as a baseline measure to compare if there were no veterinarians in the state's economy. The estimates of the economic impact rely on input-output analysis, a standard economic modeling technique designed to capture interdependencies among various industries within an economy.

Various economic multipliers were estimated by sector within Ohio's economy (Objective 4 above but presented with the agrifood sector economic impact). These multipliers have varied utility over time in providing information useful in gauging the economic impact of changes that may occur involving veterinary medicine.

Objectives two and three above are presented together as the next portion of this report. This portion of the analysis presents the distribution of food animals and companion animals by county within Ohio. The most important conclusions from the analysis are provided in the synopsis, which are the first four pages of this document.

DESCRIPTION OF VETERINARY MEDICINE WORKFORCE

Identifying and defining the scope of veterinary medicine is based on key occupations as defined by the Standard Occupational Classifications (SOC) of the U.S. Bureau of Labor Statistics. The scope of veterinary medical professionals is defined by the BLS Standard Occupational Classifications (SOC). These are:

- SOC 29-1131: <u>Veterinarians</u>—diagnose and treat diseases and dysfunctions of animals. May engage in a particular function, such as research and development, consultation, administration, technical writing, sale or production of commercial products, or rendering of technical services to commercial firms or other organizations. Includes veterinarians who inspect livestock.
- SOC 29-2056: <u>Veterinary technologists and technicians</u>—perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines.
- SOC 31-9096: <u>Veterinary assistants and laboratory animal caretakers</u>—feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment. May provide routine post-operative care, administer medication orally or topically, or prepare samples for laboratory examination under the supervision of veterinary or laboratory animal technologists, veterinarians, or scientists. Excludes "Nonfarm Animals Caretakers (SOC 39-2021).

Number of Veterinarians by Practice Type

As is true in most professions, veterinarians tend to specialize. A major distinguishing feature of specialization is veterinarians that engage in private practice compared to those that are salaried employees of a corporation, governmental agency, or NGO (nongovernmental organization). Those veterinarians that engage in private practice typically specialize in the care of the health and well-being of food animals or companion animals². Veterinarians the are engaged in the public or corporate sectors of the economy specialize in various areas. Examples include veterinarians specializing in food safety for governmental agencies such as the U.S. Department of Agriculture or the Center for Disease Control, laboratory work for government or industry, or academic research and teaching assignments at various universities.

The number of veterinarians in Ohio for 2008 totaled 3,492 with about two-thirds of them engaged in private practice, Table 2. The majority of veterinarians are specialized

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² Food animals are domestic farm animals and include their products (such as milk) that are part of the human food supply. Food animals include dairy cattle, beef cattle, hogs, and sheep and goats. Companion animals are pets that include dogs, cats, birds, and equine (horses).

in companion animal private practice, numbering 1,766 in 2008. For the same year there were a total of 187 veterinarians specialized predominantly or exclusively in food animal private practice, or only about 5 of each 100 licensed veterinarians in Ohio. Only 1 of every 100 Ohio veterinarians are in private practice exclusively for food animals.

About 65 of every 100 veterinarians in Ohio are engaged in private practice. There are 1,766 veterinarians in private practice specialized primarily in companion animals. This is roughly 1 in every 2 veterinarians licensed in Ohio and 3 in every 4 veterinarians in private practice in Ohio.

Table 2. Veterinarians by Employment Type, U.S. and Ohio, 2008

Employment Type	Ohio	
Private	Number	Percent of Total
Food animal exclusive	42	1.2
Food animal predominant	145	4.2
Mixed animal	164	4.7
Companion animal exclusive	1,543	44.2
Companion animal predominant	223	6.4
Equine	139	4.0
Other	28	0.8
Total Private	2,284	65.4
Public & Corporate		
College or university	237	6.8
Government	108	3.1
Uniformed services	24	0.7
Industry	122	3.5
Other	77	2.2
Total Public & Corporate	568	16.3
Unknown Employment	640	18.3
OHIO TOTAL	3,492	100

 $Source: Estimated from \ data \ provided \ by \ AVMA \ and \ the \ Ohio \ Veterinary \ Medical \ Licensing \ Board.$

Another major classification of veterinarians is corporate and government. For 2008, there were 230 veterinarians in various specializations employed in corporations and at various governmental agencies, or about 6 of every 100 veterinarians in Ohio. These professionals are engaged in a wide array of activities in all levels of government (local, state, and federal) or are employed by corporations in numerous and varied industries.

Ohio Employment in Veterinary Medicine

Veterinarian establishments employ individuals trained to assist them with their practice. The types of employment in veterinary medicine are provided in detail above under the discussion of the Standard Occupational Classifications of the Bureau of Labor Statistics. Based on these definitions, there are a total of 1,087 establishments in Ohio that employ 11,780, Table 3. The numbers are based on NAICS 541940 which is defined as establishments of licensed veterinary practitioners primarily engaged in the practice of veterinary medicine, dentistry, or surgery for animals; and establishments primarily engaged in providing testing services for licensed veterinary practitioners.

Table 3. Number of Ohio Veterinary Medicine Establishments, by Size, 2008

Paid Employees Per Establishment	Number of Establishments
1-4	307
5-9	350
10-19	312
20-49	102
50-99	14
100-249	2
250+	0
TOTAL ESTABLISHMENTS	1,087

Source: For NAICS 541940 from U.S. Census Bureau, County Business Patterns. 2008.

There are major economic linkages of the veterinary medical professionals with various sectors of the economy. Useful insight into this is provided by tabulating the various sectors that are related through economic linkages to veterinarians, Table 1 (in the synopsis at the beginning of this document). Veterinary medicine is a partner in Ohio's livestock, equine, food animal industries, in addition to companion animals. Many sectors of the economy rely either directly or indirectly on the expertise and services of veterinarians. For 2008 in Ohio, it is estimated that there are over 3,627 establishments in various industries that are related to veterinary medicine, Table 1. These establishments employed a total of 59,088 and had an annual payroll in excess of \$3.0 billion, Table 1. The industries included in this mix range from pet food stores to animal shelters and zoos.

ECONOMIC IMPACT OF THE AGRIFOOD SECTOR ON OHIO'S ECONOMY

Introduction

The interdependence captured in the input-output model arises because each industry employs the outputs of other industries as its raw materials. In addition, other producers or industries may use its output as a factor of production. To illustrate these economic linkages and interdependencies, consider corn production. Some output from this production activity is input into dry and wet corn milling. Some co-product output from milling is input into livestock feed (e.g. corn gluten feed), as is some output directly from corn production. Moving closer to the consumer level in the supply chain, some output from the milling industry is high-fructose corn syrup (HFCS) which in turn is input into the soft drink manufacturing industry.

Measuring these interdependencies and linkages can reveal how much of each industry's output is consumed by other industries and how much is available for final consumption. OHFOOD is developed so that the supply chain of the food and related agricultural cluster of the economy is highlighted. This cluster consists of five major sectors or components, all vertically linked and interdependent in an economic sense. The five major components comprising the agrifood cluster are 1) farm inputs and machinery, 2) farm production, 3) processing of food and forestry products, 4) wholesaling and retailing of food and forestry products, and ultimately the 5) food service sector.

For each industry or sector of the economy, estimates of direct purchases per dollar of output are obtained from the interindustry model. In addition, other economic measures of interest derived for each sector of the economy from the input-output model include total employment, income, contribution to gross state product (GSP), and the total dollar value of output. Each of these economic indicators measures different, yet related, economic flows among sectors within the economy. Income in the model is the money earned within the region from production and sales. Thus, income includes personal income (wage and salary income) as well as entrepreneurial income from business proprietor's profits and rents. Income is not just wage income for the region.

Sector Definition

An input-output model of the state's economy captures interindustry economic relationships and provides information on the relative importance of various sectors of the economy. **OHFOOD**, an acronym for **Ohio Food**, is an input-output model composed of 38 aggregated sectors defined in a manner to emphasize agriculture and processed food and forestry products, distribution and retailing of food and forestry products, and food consumption. Most of the 38 sectors are defined based upon the aggregation of similar industries. For example, the "Greenhouse, Nursery & Floriculture Production" sector of **OHFOOD** is defined to include the grass seeds industry, the greenhouse and nursery products industry, flower production, and the landscape and horticultural services industry.

The specific definition of sectors within **OHFOOD** was accomplished by maintaining substantial detail among the agricultural production and food-forestry processing/distribution sectors, but aggregating many other non-food industries into relatively large composite sectors. **OHFOOD** is comprised of 19 sectors related to food and agriculture and 19 sectors that are based on the general manufacturing and service sectors of the entire economy.

The specific food and related agricultural sectors of **OHFOOD** the form the cluster include farm inputs, equipment, and professional services (such as veterinary medicine); dairy cattle and milk production; beef cattle production; poultry and egg production; hogs and other farm animals (including sheep, goats, horses, and other livestock); grain production; soybeans and other oil crops; miscellaneous crops including hay, sugar, tobacco and nut crop production; fruits and vegetables; forestry, hunting and fishing; nursery and horticulture production; processed meat, fish, poultry and eggs; dairy processing; processed food and kindred products; grain milling and flour production; fats and oils processing; beverage processing (mostly soft drinks and liquor production); wood processing, paper production and wood furniture manufacturing; food and forestry wholesaling and retailing; and finally away-from-home food service including restaurants and institutions such as schools, hospitals and prisons, but excluding hotel and motel food service.

Each sector defined in the **OHFOOD** model is a grouping of industries that produce similar products or services. Appendix Table A-1 provides a detailed definition of each sector of the **OHFOOD** model based upon North American Industrial Classification System (NAICS) definitions. This table contains the precise definition of every sector within the **OHFOOD** model.

Methods

The **OHFOOD** model is based on *IMPLAN*, an input-output algorithm for the national economy using non-survey based data. *IMPLAN* is based on a procedure developed by the U.S. Forest Service for estimating input-output models for the United States or subregions (Alward).

Estimates of sectoral activity for final demand, final payments, industry output, and employment for the Ohio economy are based on the latest data available aggregating the detail for 504 industries of the United States economy. All information within the model is for the calendar year 2008 and is in 2008 dollars.

The **OHFOOD** estimates of economic activity by sector in Ohio are based on information and/or data from each of the following sources:

- US Bureau of Economic Analysis Benchmark I/O Accounts of the US
- US Bureau of Economic Analysis Output Estimates
- US Bureau of Economic Analysis REIS Program
- US Bureau of Labor Statistics ES202 Program
- US Bureau of Labor Statistics Consumer Expenditure Survey
- US Census Bureau County Business Patterns
- US Census Bureau Decennial Census and Population Surveys
- US Census Bureau Economic Censuses and Surveys
- US Department of Agriculture
- US Geological Survey

Detail of the methods of input-output modeling for an economy and the methods used for calculations of multipliers may be found in Miller and Blair. In addition, there are numerous other sources of information on the input-output modeling technique.

Basic Economic Linkages

An overview of the Ohio economy in 2008 is shown by the total output, gross state product, income and employment for each of 38 sectors, Table 4. The total economic output for Ohio in 2008 was \$983.4 billion, with total employment of over 6.61 million person years. The 2008 Ohio economy generated a gross state product (GSP) of \$471.5 billion, and the food and agricultural share of this GSP was \$39.0 billion. This means that the food and agricultural components of the Ohio economy generate approximately \$8.27 of each \$100 in Ohio GSP.

The output of food and related agricultural sectors was nearly \$107.5 billion, or about 11 percent of Ohio's total economy, Table 4. The \$107.5 billion represents about \$1 of every \$9 in output for the entire Ohio economy. The total output of \$107.5 billion may be divided among the five basic components of the food and related agriculture cluster, Figure 1. The largest component is processed food and processed forestry products, accounting for \$51.6 billion of this output, or 48 percent of the total \$107.5 billion food and agricultural output. This \$51.6 billion is composed of \$33.5 billion from food processing and another \$18.1 billion from value added forestry processing which includes wood processing, paper, and wood furniture manufacturing. This food and forestry processing sector is significant because it accounts for about 48 cents of every \$1 in output from the total food and agriculturally-related cluster.

Agricultural production adds about \$9.1 billion in output or over 8 percent of the total output from the food and related agricultural cluster of the Ohio economy. The largest component within the agricultural production sector is grain production, accounting for nearly \$2.5 billion in output, or nearly \$1 of every \$4 in output generated by the

Table 4. Ohio: Output, Gross State Product, Income, and Employment, 2008.

	Total Output	Gross State Product (GSP)	Income	Employment
	\$ Millions	\$ Millions	\$ Millions	Person Years
<u>Food & Related Agricultural Cluster</u> Farm Inputs, Equip & Prof Services	6,822.4	1,576.8	1,523.9	30,573
Farming	9,093.9	3,772.3	3,623.8	95,973
Dairy Cattle & Milk Production	1,003.8	378.5	365.5	
Beef Cattle Production	355.6	61.1	52.9	
Poultry & Egg Production	876.6	160.5	155.7	•
Hogs & Other Farm Animals ^a	487.6		232.2	,
Grain Production	2,499.2	1,245.6	1,234.5	-
Soybeans & Other Oil Crops	1,867.3	·	838.1	20,246
Misc Crops, Hay, Sugar, Tobacco & Nuts	540.8		142.7	
Fruit & Vegetable Production	334.6		165.8	·
Greenhouse, Nursery & Floriculture Production	405.2		237.0	
Forestry, Hunting & Fishing	723.2		199.4	,
Processing	51,562.8	11,203.9	10,601.2	127,685
Food Processing	33,462.7	•	5,759.7	•
Processed Meat, Fish, Poultry & Eggs	3,702.7	·	456.3	
Dairy Processing	6,173.4		954.3	•
Processed Food & Kindred Products	13,723.8		3,000.5	
Grain Milling & Flour	653.4	·	67.1	501
Fats & Oils Processing	1,712.2		74.0	
Beverage Processing	7,497.2		1,207.5	
Wood/ Paper/ Furniture Manufacturing	18,100.0	4,961.5	4,841.4	•
Food & Forestry Wholesale/Retail	18,617.6	12,295.8	9,768.8	217,628
Food Services	21,415.5	10,166.5	9,044.6	418,977
Total Food & Ag Cluster	107,512.2	39,015.3	34,562.3	890,836
General Manufacturing & Service Sectors				
Mining	813.6	432.8	357.6	2,438
Stone, Clay & Glass	8,583.2		3,365.2	,
Metal Industries	65,066.9	18,194.1	17,796.4	
Chemicals, Polymers & Petroleum	79,059.6	•	17,414.0	•
Construction	46,179.7	·	17,536.0	
Textiles, Apparel/ Accessory, Yam & Leather	2,380.3	·	710.9	-
Machinery, Equipment & General Mfg	39,243.4		13,254.5	·
Motor Vehicles, Allied Equip & Services	75,253.2	·	17,935.6	
Transportation & Communication	60,645.5	·	24,602.9	-
Computer & Electronic Products	20,334.2		9,299.9	·
Publishing & Information Technologies	13,364.0	5,878.3	5,781.5	
Wholesale & Retail Trade	68,789.0		36,094.1	708,449
Business, Professional & Personal Services	79,823.3		46,504.1	823,768
Financial, Legal & Real Estate	138,060.5	86,672.0	77,570.3	
Leisure Activities & Entertainment	13,755.1	6,020.8	5,444.2	164,560
Health Care & Social Assistance	72,267.0	41,763.4	41,178.9	781,018
Electricity, Gas & Sanitary Services	18,216.8	10,621.3	9,042.1	39,433
Education Services	6,315.4	·	3,472.5	126,321
Government, Military & Non-Profit	67,714.9	57,094.9	56,966.9	962,628
Other (Households & Sector Adjustment)	0.0	0.0	0.0	•
Total of Mfg & Service Sectors	875,865.5	432,492.7	404,327.5	5,724,291
2008 Total Ohio Economy	983,377.7	471,508.0	438,889.7	6,615,127
Note: The wholesaling and retailing sector is one sect				

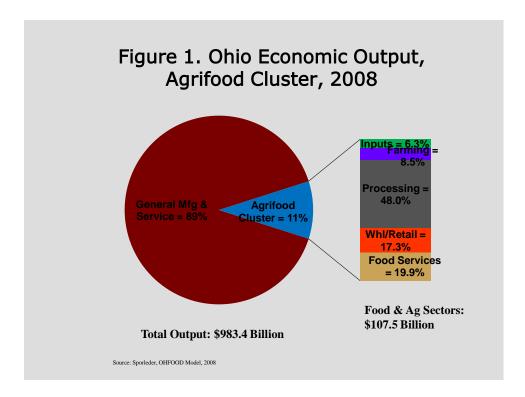
Note: The wholesaling and retailing sector is one sector in the input-output model but is disaggregated for this table. *County Business Patterns 2007* is used to estimate the percent of payroll and employment that is attributable to the food cluster.

The percent of payroll (21.3) is used to estimate the proportion of food cluster output, gross national product, and income.

Similarly, the percent of employment (23.5) is used to estimate the proportion of food cluster employment.

Other farm animals include sheep, goats, horses, aquaculture production, and miscellaneous livestock. Excludes hotel/ motel food service.

Includes diverse service items such as advertising, cleaning, barber and beauty shops, and funerals. Source: Computed

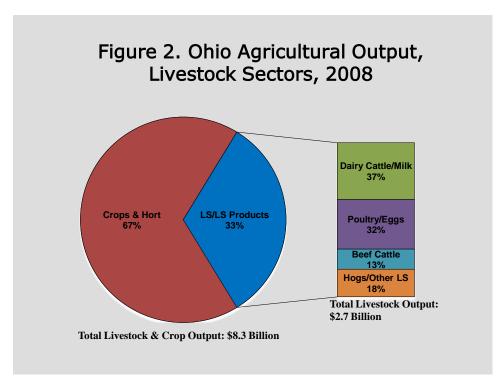


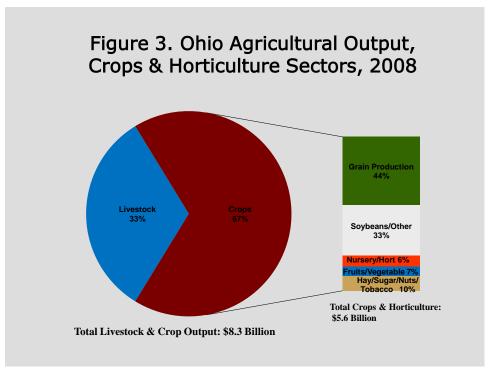
farming sector. However, oil bearing crops, primarily soybeans, account for nearly \$1.9 billion in sector output.

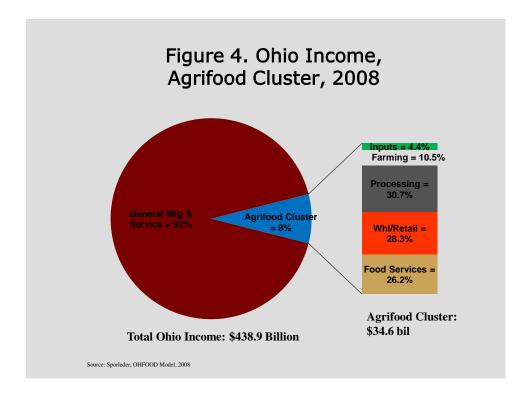
The Ohio livestock sectors combined account for nearly \$2.6 billion in output, or one-third of the \$8.4 billion total agricultural production output, excluding forestry, hunting, and fishing, Figure 2. Crop and horticultural industries account for two-thirds of the total output, amounting to about \$5.1 billion, Figure 3.

Gross state product is another significant measure of economic activity and is a useful measure for comparing the relative importance of various sectors. Gross state product for the total economy is similar in concept to the measure called gross domestic product (GDP) for a nation. The 2008 Ohio economy generated a gross domestic product (GSP) of \$471.5 billion, and the food and agricultural share of this GSP was \$39.0 billion, Table 4. This means that the food and related agricultural cluster of the Ohio economy generated approximately \$8.27 of each \$100 in Ohio GSP. Of the \$39.0 billion gross state product contributed by the food and related agricultural cluster, about 32 percent is attributable to the food wholesaling and retailing sector while another 29 percent is attributable to food and forestry processing. These two sectors combine to contribute 61 cents of every dollar generated in gross state product from all the food and agriculturally-related sectors.

The largest of the five components of the cluster in terms of gross state product is the wholesaling and retailing of food and forestry products sector, accounting for \$12.3 billion, or almost one-third of the entire gross state product by the food and related agricultural cluster combined, Figure 4. Food service accounts for another \$10.2 billion in



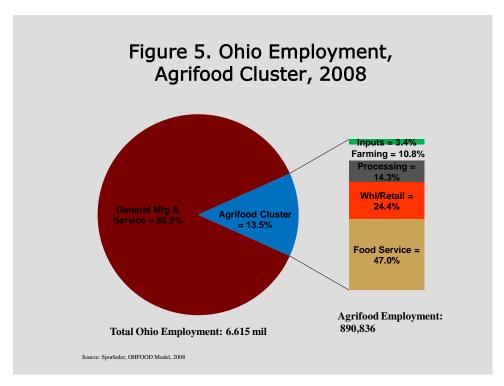


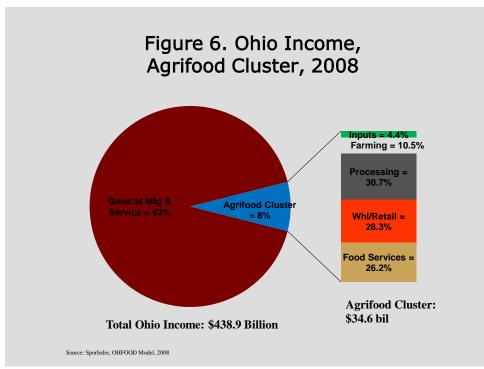


gross state product. Farm production and the farm inputs and machinery sector account for about another 9.7 percent and 4.0 percent, respectively, of the gross state product. Farm production accounts for \$3.8 billion in gross state product while the farm inputs and machinery industries account for about \$1.6 billion in gross state product.

The food and related agricultural component of the state's economy accounts for 890,836 person years of employment, or nearly 1 in every 7 employed in Ohio, Figure 5. The wholesaling and retailing component of the food and related agriculture cluster combined with the food service sector account for over 7 of every 10 person years of all employment in the food and agriculturally-related cluster. They combine for 636,605 jobs in total. The food and value added forestry processing sectors account for over 127 thousand jobs, or just over 14 percent of the total food and related agricultural cluster employment. Farm production accounts for nearly 96 thousand jobs or about 11 of every 100 persons employed in the entire food and related agricultural cluster. The smallest sector in terms of employment within the food and related agricultural cluster is farm inputs and machinery, yet this sector employs 30,573, Table 4.

The food and related agricultural cluster accounts for \$34.6 billion in income or 7.9 percent of total income in the entire state's economy, Figure 6. The food and forestry product processing sector accounts for about \$10.6 billion of a total food and related agricultural cluster income of \$34.6 billion, or roughly 31 percent of the cluster's income. Food and forestry wholesaling and retailing income accounts for another \$9.8 billion in total cluster income, with another \$9.0 billion in income added by the food service sector. Ohio farm production income was over \$3.6 billion for 2008, Table 1.





Ohio livestock sectors combined account for \$806.3 million in income, or nearly one-fourth of the over \$3.4 billion total farming income exclusive of wood and forestry. Beef and dairy cattle along with milk production account for \$418.4 million in income in the farming sector. Poultry and egg production accounts for \$155.7 million in total income from the livestock sector. Hogs and miscellaneous livestock account for \$232.2 million. Table 4.

ECONOMIC IMPACT OF VETERINARY MEDICINE ON OHIO'S ECONOMY

Direct and Indirect Effects: Economic Multipliers

The input-output model provides the basis for the estimation of the direct economic impact of veterinary medicine on Ohio's economy. Combining the direct influence with the appropriate estimated multiplier provides as estimate of the direct, indirect, and induced influence on the economy from the veterinary medicine profession. While the influence of veterinary medicine can be measured in several ways, economists define economic multipliers as a means of capturing the 'ripple' effect of economic activity on the total economy.

Input-output models are driven by final consumption or final demand. Industries respond to meet demands directly or indirectly (by supplying goods and services to industries responding directly). Each industry that produces goods and services generates demands for other goods and services. These other producers, in turn, purchase goods and services. These "indirect" purchases (indirect effects) continue until "leakage" from the region (such as imports, wages, or profits) stop the cycle.

Multipliers capture these iterations. An output multiplier for a sector, for example, measures the additional value of production from all sectors of the economy when expansion or contraction of output occurs within a sector by the entrance or exit of firms in a geographic location. Output multipliers can be the basis for analyzing the importance of each industry in terms of its overall influence on the economy. Other types of multipliers include income and employment. An income multiplier is a measure of the intuitive notion that income earned by one individual or industry is spent and becomes income to a second individual or industry. In turn, the second individual spends a portion of that income so that it becomes income to yet another individual. The income multiplier relates an increment in the income of one sector to an increment of income among all other sectors. Thus, the multiplier is a metric estimating how the increase in income in one sector induces the income of another sector to increase. Employment multipliers are derived from output multipliers simply by converting from an output to employment base.

The Type II economic multiplier is a metric that captures the direct effects plus the indirect effects plus the induced effects. The estimation of the economic influence on Ohio's economy from veterinary medicine relies on these Type II multipliers. These multipliers were estimated for each sector of the OHFOOD model, Table 5.

Table 5. Ohio Economic Multipliers for Output, GSP, Income, and Employment, 2008, by Sector

		Gross State		
	Output	Product	Income	Employment
Food & Related Agricultural Cluster				
Farm Inputs, Equipment & Prof Services	1.7836	2.7184	2.3802	2.2589
Farming				
Dairy Cattle/Milk Production	1.5069	1.6241	3.4248	1.3679
Beef Cattle	1.6098	2.6484	3.0787	1.4356
Poultry & Egg Production	1.6521	2.5330	2.4655	2.9157
Hogs & Other Farm Animals ^a	1.4615	1.4471	1.9507	1.1376
Grain Production	1.5002	1.4981	2.9455	1.2232
Nursery & Horticulture Production	1.5104	1.5431	3.0837	1.3034
Fruit & Vegetable Production	1.6922	2.1100	2.3765	1.8112
Soybeans & Other Oil Crops	1.6314	1.6147	1.7463	1.6042
Misc. Crops/Hay/Sugar/Tobacco/Nut	1.6669	1.5987	1.4467	1.4893
Forestry, Hunting & Fishing	1.6530	2.0372	2.1126	1.8701
Food and Forestry Processing				
Food Processing				
Processed Meat, Fish, Poultry & Eggs	1.7114	3.6088	2.6327	3.4879
Dairy Processing	1.8443	3.4013	3.1044	5.8665
Processed Food & Kindred Products	1.6830	2.5484	2.5432	2.9595
Grain Milling & Flour	1.7839	5.1007	4.9280	N.A.
Fats & Oils	1.5953	N.A	6.2866	N.A.
Beverage Processing	1.7230	2.5659	3.6331	5.4315
Wood, Paper, Wood Furniture Mfg.	1.7170	2.3486	2.0609	2.3450
Food & Forestry Wholesale/Retail	1.7389	1.6378	1.6367	1.5486
Food Service ^b	1.8063	1.9163	1.7848	1.3007
General Manufacturing & Service Sectors				
Mining	1.7114	1.5804	1.6483	2.3343
Stone, Clay & Glass	1.8443	2.0023	1.9504	2.4145
Metal Industries	1.6830	2.3250	2.2340	2.9387
Chemicals, Polymers & Petroleum	1.7839	2.1150	2.1854	3.0722
Construction	1.5953	2.1705	1.7674	1.7971
Textiles, Apparel, Accessories, Yarn & Leath	1.7230	2.0478	1.8596	1.8857
Machinery, Equipment & General Mfg	1.7170	2.0649	2.0028	2.4817
Motor Vehicles, Allied Equip & Services	1.7389	2.5366	2.1697	2.5423
Transportation & Communication	1.8063	1.9832	2.0052	2.3263
Computer & Electronic Products	1.8746	2.0288	1.6567	2.2679
Publishing & Information Industries	1.8508	2.0701	1.9773	2.2908
Wholesale & Retail Trade	1.7389	1.6378	1.6367	1.5486
Business & Personal Services ^c	1.8634	1.8144	1.6262	1.6183
Financial, Legal & Real Estate	1.6452	1.5964	1.9445	1.8073
Leisure Activities & Entertainment	1.8545	2.0818	1.9235	1.6639
Health Care & Social Assistance	1.9210	1.9060	1.6498	1.6038
Electricity, Gas & Sanitary	1.4461	1.4014	1.6629	2.2961
Education Services	1.9246	1.9300	1.5680	1.3090
Government, Military & Non Profit	1.7943	1.5316	1.3417	1.5229

Notes: N.A.= not applicable. The wholesaling and retailing sector is one sector in the input-output model so multipliers are the same for both food and general W/R

Source: Computed

 $a \ \ Other farm \ animals \ include \ sheep, \ goats, \ horses, \ aquaculture \ production, \ \& \ miscellaneous \ livestock.$

b Excludes hotel/motel food service

c Includes diverse service items such as advertising, cleaning, barber and beauty shops, and funerals.

The output multiplier for veterinary medicine is estimated at 1.7836. The interpretation of this multipliers is that for each increase (or decrease) of \$1,000,000 in output from veterinary medicine sector in Ohio, a total output change in the economy is \$1,783,600. Similarly, the GSP multiplier is estimated at 2.7184. This means that for each increase (or decrease) in GSP from the veterinary medicine sector in Ohio, a total change in Ohio's gross state product will change by \$2,718,400. The employment multiplier is estimated at 2.2589. This means that for each increase (or decrease) of 1 job in the veterinary medicine sector in Ohio, a total change in Ohio's employment will be 2.26 person years in employment. These various economic multipliers capture the substantial economic influence that veterinary medicine has on the state's overall economy.

Total Economic Impact of Veterinary Medicine

The economic impact of veterinary medicine is \$1.96 billion on Ohio. This is the amount of output added to the Ohio economy from veterinary medicine in 2008, considering the direct, indirect, and induced effects of the sector. The direct economic output is estimated as \$1.1 billion.

In terms of jobs, the total influence of veterinary medicine is an additional 33,383 in Ohio. This is based on the direct employment estimation in the sector from the input-output model of 14,778. Considering the ripple effect captured by the employment multiplier, the total impact of veterinary medicine on employment in Ohio is 33,383 for 2008.

Moreover, veterinary medicine contributes a total of nearly \$1.4 billion to Ohio's gross state product. The direct estimation of GSP for the veterinary medicine sector is \$503.6 million. The GSP multiplier is 2.7184 for a total effect on GSP in Ohio of \$1.4 billion.

SPATIAL ANALYSIS OF VETERINARY MEDICINE IN OHIO

Evaluating county level data related to the veterinary medical profession within Ohio provides an indication of the spatial aspects of the profession. In general, the location of veterinarians is influenced by where animal population densities are relatively large. Also, analyzing which geographic areas may be underserved can be better understood by using benchmarking (ratio analysis by county).

A basic classification of population density is to classify counties as either urban or rural. Metropolitan areas would have greater population densities and would accordingly be classified as urban. Sparsely populated counties, outside the influence of major metropolitan areas, would be classified as rural. This helps in understanding the nature of the population densities in Ohio.

The classification of counties is provided by the Economic Research Service (ERS) of the United States Department of Agriculture (USDA). ERS designed a sophisticated system of classification of each county within the U.S. that measures its relative urban or

rural character. Figure 7 provides an Ohio county map depicting the classification of counties on a continuum of rural to urban. The rural counties are tan while the urban counties are blue. Mixed counties are ones where some portions of the county are urban but others are rural. Such counties are green and called 'mixed' counties.

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Figure 7. Ohio Counties Classified by Rural (White), Urban (Dark Green), or Mixed (Light Green).

Source: ERS, USDA

The spatial distribution of private practice veterinarians using the classification of counties in Figure 7 provides some useful insights. Of the total 2,284 private practice veterinarians, there were 1,598 in private practice in urban counties, or nearly 3 or every 4. It is expected that since m a majority of practicing veterinarians are in companion animal practices that these veterinarians would be located in urban areas where the primary population of companion animals are located.

At-Risk Food Animal Populations

The number of food animals in Ohio is significant. The latest Census of Agriculture indicates a total of nearly 2.6 million farm animals in Ohio, Table 6. These animals are not contribute to the human food supply but produce valuable products, such as milk and wool, that add to their already significant economic importance as food animals. The veterinary medicine professionals in Ohio ultimately maintain the health of these animals, thereby assuring ultimately a safer and more abundant food supply. The geographic distribution of these food animals is provided in Appendix A-2. This appendix has the number of livestock for selected species by Ohio county.

Table 6. Ohio Food Animals, by Type, 2007

Food Animals	Number of Head (1,000)
Dairy Cattle	271.9
Beef Cattle	293.8
Hogs	1,831.1
Goats	69.5
Sheep	123.2
TOTAL	2,589.5

Source: U.S. Department of Agriculture, Census of Agriculture, 2007

Distribution of Food Animal Veterinarians in Ohio

The distribution of food animal veterinarians relative to the food animal population in Ohio reveals the extent of the food animal population compared to the practicing food animal veterinarians. For purposes of examining the distribution of food animal veterinarians, the ratio of food animals to practicing food animal veterinarians was calculated for each county in Ohio, Table 7. The animal population is the total for food animals in each county. The number of practicing food animal veterinarians was approximated from data provided by OVMA and AVMA.

The results indicate that the mean ratio is about 24,000 food animals per food animal veterinarian across all counties in Ohio. This ranges from relatively low numbers of animals per veterinarian in urban counties to higher ratios in the rural counties that are more sparsely populated. The maximum ratio across all Ohio counties is 178,752 food animals per veterinarian. This ratio is for Mercer County. Generally, the ratio for food animals per food animal veterinarian increases for those counties characterized as rural. This is what is expected in terms of the geographic distribution of food animal veterinarians.

Table 7. Food Animals Veterinarians Relative to Food Animals, Ohio, by County,

County	Total Food Animals	Total Food Animal Veterinarians	Animals per Veterinarian
Adams	32,135	0	N.A
Allen	70,645	0	N.A.
Ashland	41,511	2	20,756
Ashtabula	19,760	2	9,880
Athens	9,392	0	N.A.
Auglaize	112,755	2	56,378
Belmont	21,483	0	N.A.
Brown	22,384	0	N.A.
Butler	23,123	2	11,562
Carroll	24,268	2	12,134
Champaign	34,978	0	N.A.
Clark	33,523	0	N.A.
Clermont	5,686	4	1,422
Clinton	23,571	0	N.A.
Columbiana	34,408	4	8,602
Coshocton	56,151	4	14,038
Crawford	69,306	0	N.A.
Cuyahoga	103	12	9
Darke	263,422	2	131,711
Defiance	22,173	0	N.A.
Delaware	40,222	2	20,111
Erie	3,323	2	1,662
Fairfield	31,867	2	15,934
Fayette	8,811	2	4,406
Franklin	4,723	11	429
Fulton	69,027	6	11,505
Gallia	19,579	0	N.A.
Geauga	9,445	4	2,361
Greene	27,503	0	N.A.
Guernsey	30,444	0	N.A.
Hamilton	1,374	10	137
Hancock	37,710	0	N.A.
Hardin	71,878	0	N.A.
Harrison	16,408	0	N.A.
Henry	16,498	0	N.A.
Highland	35,406	2	17,703
Hocking	3,084	0	N.A.
Holmes	64,321	0	N.A.
Huron	23,337	4	5,834
Jackson	11,876	0	N.A.
Jefferson	10,816	0	N.A.
Knox	44,204	4	11,051
Lake	788	4	197
Lawrence	6,521	0	N.A.

N.A. - Total veterinarians in this county is zero

Source: USDA, Census of Agriculture, National Agricultural Statistical Service,

Washington, D.C., 2007, AVMA, and OVMA

County	Total Food Animals	Total Food Animal Veterinarians	Animals per Veterinarian
Licking	51,385	2	25,693
Logan	29,456	4	7,364
Lorain	18,317	4	4,579
Lucas	5,144	6	857
Madison	34,895	2	17,448
Mahoning	14,786	0	N.A.
Marion	56,425	2	28,213
Medina	11,522	4	2,881
Meigs	10,381	0	N.A.
Mercer	355,504	6	59,251
Miami	24,509	0	N.A.
Monroe	13,893	0	N.A.
Montgomery	17,828	4	4,457
Morgan	19,076	0	N.A.
Morrow	45,297	0	N.A.
Muskingum	54,620	2	27,310
Noble	13,463	0	N.A.
Ottawa	5,497	2	2,749
Paulding	25,237	0	N.A.
Perry	18,036	0	N.A.
Pickaway	38,592	2	19,296
Pike	7,979	0	N.A.
Portage	9,138	2	4,569
Preble	64,368	4	16,092
Putnam	91,966	2	45,983
Richland	41,154	2	20,577
Ross	17,378	0	N.A.
Sandusky	10,968	2	5,484
Scioto	10,029	0	N.A.
Seneca	55,674	1	55,674
Shelby	104,382	0	N.A.
Stark	34,277	8	4,285
Summit	1,297	6	216
Trumbull	12,432	8	1,554
Tuscarawas	45,687	2	22,844
Union	44,503	0	N.A.
Van Wert	32,859	0	N.A.
Vinton	3,079	0	N.A.
Warren	5,443	6	907
Washington	20,761	2	10,381
Wayne	146,757	8	18,345
Williams	34,177	0	N.A.
Wood	11,489	5	2,298
Wyandot	44,093	0	N.A.

N.A. - Total veterinarians in this county is zero

Source: USDA, Census of Agriculture, National Agricultural Statistical Service,

Companion Animals in Ohio

As a part of the study, the number of companion animals was calculated by county, in addition to the food animals population by county provided above. The calculation of companion animals (dogs, cats, birds, and horses) was based on the number of companion animals per household from a national study (AVMA). They provide a population factor per household. When multiplied by the number of households, an estimate of the number of companion animals is obtained. The number of companion animals by Ohio county is provided in Appendix A-2. There were a total of 7,650,289 companion animals in Ohio. There were 3,210 thousand dogs and 3,621 thousand cats. The total number of birds in Ohio is estimated at 497,828 and the total number of horses at 320,032 for 2008.

REFERENCES

- American Veterinary Medical Association, URL: http://www.avma.org/, accessed numerous times in 2010.
- Alward, G. (1987). *IMPLAN Version 2.0: Methods Used to Construct the 1982 Regional Economic Data Base*. Fort Collins, CO: USDA, Rocky Mountain Forest and Range Experiment Station.
- Bureau of Labor Statistics (2010). *Standard Occupational Classifications*. Accessed January 2, 2010. URL: http://www.bls.gov/SOC/
- Jones, L. L., Sporleder, T. L., & Mustafa, G. (1973). A Source of Bias in Regional Input-Output Models Estimated from National Coefficients. *The Annals of Regional Science*, 7, 67-74.
- Miller, R., & Blair, P. (1984). *Input-Output Analysis: Foundations and Extensions*. Englewood, NJ: Prentice-Hall.
- Ohio Veterinary Medical Association, Jack Advent, Personal Correspondences, January-November, 2010
- Raa, T. T. (2005). *The Economics of Input-Output Analysis*. Cambridge University Press.
- Sporleder, T. L. (2010). *OHFOOD: An Ohio Food Industries Input-Output Model, Version* 12.0. Columbus, OH: The Ohio State University, Department of Agricultural, Environmental and Development Economics, November 2010.
- USDA, ERS (2009). County Classifications. Accessed December 20, 2009. URL: http://www.ers.usda.gov/briefing/rurality/ruralurbcon/
- USDA, Census of Agriculture (2010). Washington, DC. Accessed numerous times during 2010, URL: http://www.agcensus.usda.gov/.

Appendix A-1 OHFOOD SECTOR DEFINITIONS

Using North American Industry Classification System (NAICS)

Appendix Table A-1. Concordance between the OHFOOD Sectors and the North American Industrial Classification System (NAICS), Data Year 2008.

OHFOOD Sector	NAICS
FARM INPUTS, EQUIP. & PROF SERVICES	11500, 21239, 311119, 325311, 325311, 325312, 325313, 32532, 32741, 541940, 333111, 333112
Dairy Cattle & Milk Production	112120
Beef Cattle Production	112112
Poultry & Egg Production	112310
Hogs & Other Farm Animals	11220,11240, 11250, 11290
Grain Production	11113, 11114, 11115, 11116, 11119
Soybeans & Other Oil Crops	11111, 11112
Miscellaneous Crops, and Hay, Sugar, Tobacco, and Nut Crops	111335, 11191-11193, 111991, 11194, 111992, 111998
Fruit and Vegetable Production	11120, 11131, 11132, 11133
Greenhouse, Nursery and Floriculture Production	11140
Forestry, Hunting & Fishing	1133,11310, 11320, 11330, 11410, 11420
Processed Meat, Fish, Poultry & Eggs	31170, 311611, 311612, 311613, 311615
Dairy Processing	311511, 311512, 311513, 311514, 31152
Processed Food and Kindred Products	31123, 31132, 31133, 31134, 31141,31183, 31199, 311111, 311213, 311311, 311312, 311313, 311420, 311811, 311812, 311813, 311821, 311822, 311823, 311911, 311919, 311941, 311942

Grain Milling & Flour	311211, 311212, 311221
Fats & Oils Processing	311222, 311223, 311225
Beverage Processing	31192, 31193, 31211, 31212, 31213, 31214
Wood / Paper/ Wood Furniture Manufacturing	32211, 32212, 32213, 32221, 33711, 321113, 321114,32192 321192, 321211, 321212, 321213, 321214, 321219, 321911, 321912, 321918, 321999, 322221, 322222, 322223, 322224, 322226, 322231, 322232, 322233, 322291, 322299, 337121, 337122, 337127, 337211, 337212, 337214,
Food Services	72200
Mining	21210, 21221, 21222, 21223, 21229
Stone, Clay & Glass	21231, 21232, 32730, 32732, 32739, 32791, 327111, 327112, 327113, 327121, 327122, 327123, 327124, 327125, 327211, 327212, 327213, 327215, 327331, 327332, 327991, 327992, 327993, 327999
Metal Industries	331111, 331112, 33121, 331221, 331222, 331311, 331312, 331314
	331315, 331316, 331319, 331411, 331419, 331421, 331422, 331423
	331491, 331492, 33151, 331521, 331524, 331522, 331525, 331528
	332111, 332112, 332114, 332115, 332116. 332117. 332211. 332214. 332212. 332213. 332311. 332312. 332313. 332321. 332322. 332323. 33241. 33242. 33243. 33250. 33260. 33271. 33272. 332811. 332812. 332813. 332911-2, 332919. 332913.
	332991. 332994. 332995. 332996. 332997. 332997. 332998. 32999. 332992. 332993. 337124. 337125
Chemicals, Polymers &	21100. 213111. 213112. 213113. 213114. 213115. 32411.
Petroleum	324121. 324122. 324191. 324199. 32511. 32513. 325181.
	325182. 325188. 32519. 325211. 325212. 324221. 325222.
	32551. 32552. 325611. 325612. 325613. 32562. 32592. 325991.
	325992. 325998. 32611. 326121. 326122. 32613. 32616. 326192.
	326191. 326199. 32614. 32615. 32621. 32622. 32629. 33322

Construction	23000
Textiles, Apparel, Accessories, Yarn & Leather	31310. 31321. 31322. 31323. 31324. 31331. 31332. 31411. 31412.
	31491. 314991. 314992. 315211. 315111. 315119. 31519. 31520.
	31522. 31523. 31529. 31590. 31610. 31620. 31690.
	33791, 33792, 33991
Machinery, Equipment & General Mfg	33312. 333131. 333132. 33321. 333291-4. 333298. 333295. 333314. 333315. 333319. 333311. 333312. 333313. 333411.
	333412. 333414. 333415. 333511. 333512. 333513. 333514.
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	333991. 333992. 333997. 333999. 333993. 333994. 333995
	333996. 335110. 33512. 335211. 335212. 335221. 335222. 335224
	335228. 335311. 335312. 335313. 335314. 335911. 335912
	335921. 335929. 33593. 335991. 335999. 337215. 33995.
	339991. 339992. 339995. 339994. 81120. 81130
Motor Vehicles, Allied Equip &	336111. 336112. 33612. 336211. 336212. 336213. 336214
Services	33630. 336214. 81111. 81112. 811191. 811198. 811192
Transportation and	336411. 336412. 336413. 336414. 336415. 335419. 33650
Communication	336611. 336612. 336991. 336999. 48100. 48200. 48300. 48400, 48500, 49200
Computer & Electronic	334111. 334112. 334113. 334119. 33421. 33422. 33429.
Products	33430. 334411. 334413. 334412. 334414. 334415. 334416
	334414-6. 334418. 334417. 334419. 334510. 334511. 334512
	334513. 334514. 334515. 334516. 334517. 334518. 334519.
	334611. 334612. 334613. 541511. 541512. 541513. 541519
Publishing & Information Technologies	323111-323119. 323121. 323122. 32591. 51111. 51112. 51113
	51114. 51119. 51120. 51913. 517. 518. 51911-2

Wholesale and Retail Trade	42000. 49300. 44100. 44200. 44300. 44400. 44500. 44600. 44700 44800. 45100. 45200. 45300. 45400
Business, Professional & Personal Services	33994. 53240. 53222. 54130. 54140. 54161. 54162. 54170. 54180
	54192. 54191. 54193. 54199. 55000. 56110. 56120. 56130. 56140
	56160. 56170. 56190. 81140. 81210. 81220. 81230. 81290
Financial, Legal & Real Estate	52220. 52230. 52300. 52410. 52420. 52500. 52100. 52210. 53100
	53300. 54110. 54120
Leisure Activities & Entertainment	33992. 33993. 48700. 48800. 51210. 51220. 5151. 5152. 53223
	56150. 71110. 71120. 71150. 71130. 71140. 71200. 71394. 71395
	71310. 71320. 71391. 71392. 71393. 71399. 72111. 72112. 72119
	72120. 72130
Health Care & Social Assistance	325411. 325412. 325413. 325414. 339111. 339113. 339112. 339114. 339115. 339116. 62160. 62110. 62120. 62130. 62140. 62150. 62190. 62200. 62300. 62440. 62410. 62420. 62430
Electrical, Natural Gas and Sanitary Services	22110. 22130. 22120. 32512. 48600. 56200
Education Services	61110. 61120. 61130. 61140. 61150. 61160. 61170
Government, Military & Non- Profit	336992. 491110. 81310. 81320. 81330. 81340. 81390

Appendix A-2

NUMBER OF LIVESTOCK, SELECTED SPECIES, OHIO, BY COUNTY, 2007

AND

NUMBER OF COMPANION ANIMALS (DOGS, CATS, BIRDS, AND HORSES), OHIO, BY COUNTY, 2008

OHIO, CATTLE INVENTORY, BEEF AND DAIRY, BY COUNTY 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	26,535	LICKING	23,993
ALLEN	6,915	LOGAN	9,739
ASHLAND	23,346	LORAIN	11,995
ASHTABULA	18,574	LUCAS	621
ATHENS	7,858	MADISON	10,364
AUGLAIZE	20,055	MAHONING	12,937
BELMONT	20,450	MARION	6,696
BROWN	20,175	MEDINA	9,783
BUTLER	15,771	MEIGS	10,040
CARROLL	17,053	MERCER	79,058
CHAMPAIGN	9,696	MIAMI	11,685
CLARK	19,800	MONROE	12,401
CLERMONT	5,253	MONTGOMERY	9,552
CLINTON	3,914	MORGAN	13,803
COLUMBIANA	30,385	MORROW	10,019
COSHOCTON	27,181	MUSKINGUM	29,180
CRAWFORD	8,003	NOBLE	11,577
CUYAHOGA	39	OTTAWA	1,523
DARKE	36,595	PAULDING	7,538
DEFIANCE	10,678	PERRY	9,723
DELAWARE	3,502	PICKAWAY	8,824
ERIE	2,519	PIKE	6,984
FAIRFIELD	14,144	PORTAGE	7,971
FAYETTE	4,396	PREBLE	16,133
FRANKLIN	1,632	PUTNAM	13,949
FULTON	31,513	RICHLAND	20,677
GALLIA	17,831	ROSS	14,463
GEAUGA	7,711	SANDUSKY	4,612
GREENE	4,434	SCIOTO	9,490
GUERNSEY	21,873	SENECA	10,096
HAMILTON	1,294	SHELBY	27,498
HANCOCK	4,233	STARK	26,824
HARDIN	15,185	SUMMIT	1,199
HARRISON	11,334	TRUMBULL	11,711
HENRY	6,230	TUSCARAWAS	34,937
HIGHLAND	19,454	UNION	8,644
HOCKING	2,473	VAN WERT	6,518
HOLMES	54,480	VINTON	2,736
HURON	7,992	WARREN	3,730
JACKSON	11,369	WASHINGTON	18,449
JEFFERSON	10,305	WAYNE	90,212
KNOX	18,872	WILLIAMS	16,827
LAKE	547	WOOD	6,287
LAWRENCE	6,221	WYANDOT	3,584

OHIO, BEEF CATTLE, BY COUNTY, 2007

ADAMS 13,018 LICKING 6,198 ALLEN 924 LOGAN 2,238 ASHLAND 3,122 LORAIN 796 ASHTABULA 2,330 LUCAS 206 ATHENS 3,729 MADISON 2,173 AUGLAIZE 1,242 MAHONING 1,589 BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CUINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGOUM 13,051 COLUMBIANA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FRIETION 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEALUGA 1,132 SANDUSKY 932 GALLIA 10,280 ROSS 7,597 GEALUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666 LAWRENCE 3,496 WYANDOT 5517	COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ASHLAND 3,122 LORAIN 796 ASHTABULA 2,330 LUCAS 206 ASHTABULA 2,330 LUCAS 206 ATHENS 3,729 MADISON 2,173 AUGLAIZE 1,242 MAHONING 1,589 BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,646 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 CUFIANCE 395 PERRY 4,896 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FRIET 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GHARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARRISON 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HARRISON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOODD 666	ADAMS			
ASHTABULA 2,330 LUCAS 2,06 ATHENS 3,729 MADISON 2,173 AUGLAIZE 1,242 MAHONING 1,589 BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,545 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,398 FAURFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,237 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 LEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	ALLEN	924	LOGAN	2,238
ATHENS 3,729 MADISON 2,173 AUGLAIZE 1,242 MAHONING 1,589 BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORGOW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GFAUGA 1,132 SANDUSKY 932 GALLIA 10,280 ROSS 7,597 GFAUGA 1,132 SANDUSKY 932 GALLIA 10,280 ROSS 7,597 GFAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARRISON 5,718 TRUMBULL 2,147 HANCOCK 650 STARK 3,707 HARRISON 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HARRISON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 LEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 KNOX 5,714 WILLIAMS 1,076 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOODD 666	ASHLAND	3,122	LORAIN	796
AUGLAIZE 1,242 MAHONING 1,589 BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DELAWARE 872 PICKAWAY 2,382 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FULTON 1,126 RICHLAND 3,3	ASHTABULA	2,330	LUCAS	206
BELMONT 11,231 MARION 861 BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORROW 2,387 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 <td>ATHENS</td> <td>3,729</td> <td>MADISON</td> <td>2,173</td>	ATHENS	3,729	MADISON	2,173
BROWN 10,333 MEDINA 1,543 BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FULTON 1,126 RICHLAND 3,327	AUGLAIZE	1,242	MAHONING	1,589
BUTLER 4,486 MEIGS 4,058 CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WEREN 1,934 HACKSON 5,714 WASHINGTON 7,406 LAKE 241 WOOD 6666	BELMONT	11,231	MARION	861
CARROLL 5,741 MERCER 2,091 CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORROW 2,387 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932	BROWN	10,333	MEDINA	1,543
CHAMPAIGN 3,281 MIAMI 1,877 CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 FRIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 </td <td>BUTLER</td> <td>4,486</td> <td>MEIGS</td> <td>4,058</td>	BUTLER	4,486	MEIGS	4,058
CLARK 2,221 MONROE 5,928 CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIFFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,312 SANDUSKY 932 GREENE 2,097 SCIOTO (D)	CARROLL	5,741	MERCER	2,091
CLERMONT 3,172 MONTGOMERY 2,150 CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALIJA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 </td <td>CHAMPAIGN</td> <td>3,281</td> <td>MIAMI</td> <td>1,877</td>	CHAMPAIGN	3,281	MIAMI	1,877
CLINTON 1,864 MORGAN 7,103 COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741	CLARK	2,221	MONROE	5,928
COLUMBIANA 4,826 MORROW 2,387 COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 <	CLERMONT	3,172	MONTGOMERY	2,150
COSHOCTON 8,368 MUSKINGUM 13,051 CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARRISON 5,718 TRUMBULL 2,147 <	CLINTON	1,864	MORGAN	7,103
CRAWFORD 844 NOBLE 6,764 CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496	COLUMBIANA	4,826	MORROW	2,387
CUYAHOGA (D) OTTAWA 343 DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496	COSHOCTON	8,368	MUSKINGUM	13,051
DARKE 2,004 PAULDING 566 DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARRISON 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 <tr< td=""><td>CRAWFORD</td><td>844</td><td>NOBLE</td><td>6,764</td></tr<>	CRAWFORD	844	NOBLE	6,764
DEFIANCE 395 PERRY 4,896 DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 <tr< td=""><td>CUYAHOGA</td><td>(D)</td><td>OTTAWA</td><td>343</td></tr<>	CUYAHOGA	(D)	OTTAWA	343
DELAWARE 872 PICKAWAY 2,382 ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D)	DARKE	2,004	PAULDING	566
ERIE 718 PIKE 3,938 FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934	DEFIANCE	395	PERRY	4,896
FAIRFIELD 4,402 PORTAGE 2,216 FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOUMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406	DELAWARE	872	PICKAWAY	2,382
FAYETTE 1,507 PREBLE 2,748 FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036	ERIE	718	PIKE	3,938
FRANKLIN 404 PUTNAM 828 FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 <	FAIRFIELD	4,402	PORTAGE	2,216
FULTON 1,126 RICHLAND 3,327 GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	FAYETTE	1,507	PREBLE	2,748
GALLIA 10,280 ROSS 7,597 GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	FRANKLIN	404	PUTNAM	828
GEAUGA 1,132 SANDUSKY 932 GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	FULTON	1,126	RICHLAND	3,327
GREENE 2,097 SCIOTO (D) GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	GALLIA	10,280	ROSS	7,597
GUERNSEY 11,080 SENECA 1,603 HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	GEAUGA	1,132	SANDUSKY	932
HAMILTON 458 SHELBY 1,741 HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	GREENE	2,097	SCIOTO	(D)
HANCOCK 650 STARK 3,707 HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	GUERNSEY	11,080	SENECA	1,603
HARDIN 1,608 SUMMIT (D) HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HAMILTON	458	SHELBY	1,741
HARRISON 5,718 TRUMBULL 2,147 HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HANCOCK	650	STARK	3,707
HENRY 353 TUSCARAWAS 5,496 HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HARDIN	1,608	SUMMIT	(D)
HIGHLAND 8,537 UNION 1,322 HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HARRISON	5,718	TRUMBULL	2,147
HOCKING 1,549 VAN WERT 357 HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HENRY	353	TUSCARAWAS	5,496
HOLMES 6,029 VINTON (D) HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HIGHLAND	8,537	UNION	1,322
HURON 950 WARREN 1,934 JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HOCKING	1,549	VAN WERT	357
JACKSON 5,774 WASHINGTON 7,406 JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HOLMES	6,029	VINTON	(D)
JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	HURON	950	WARREN	1,934
JEFFERSON 4,433 WAYNE 5,036 KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	JACKSON		WASHINGTON	
KNOX 5,714 WILLIAMS 1,076 LAKE 241 WOOD 666	JEFFERSON		WAYNE	
LAKE 241 WOOD 666	KNOX		WILLIAMS	1,076
LAWRENCE 3,496 WYANDOT 517	LAKE	241	WOOD	
	LAWRENCE	3,496	WYANDOT	517

OHIO, DARIY CATTLE, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	3,221	LICKING	3,628
ALLEN	682	LOGAN	2,435
ASHLAND	6,280	LORAIN	4,789
ASHTABULA	6,768	LUCAS	-
ATHENS	1,114	MADISON	2,969
AUGLAIZE	5,377	MAHONING	5,386
BELMONT	935	MARION	3,450
BROWN	851	MEDINA	2,848
BUTLER	1,444	MEIGS	2,118
CARROLL	3,693	MERCER	21,515
CHAMPAIGN	1,950	MIAMI	1,492
CLARK	2,443	MONROE	1,476
CLERMONT	229	MONTGOMERY	570
CLINTON	137	MORGAN	1,175
COLUMBIANA	9,836	MORROW	1,730
COSHOCTON	3,917	MUSKINGUM	1,646
CRAWFORD	1,362	NOBLE	228
CUYAHOGA	· -	OTTAWA	275
DARKE	8,222	PAULDING	4,908
DEFIANCE	3,982	PERRY	487
DELAWARE	368	PICKAWAY	1,407
ERIE	519	PIKE	400
FAIRFIELD	1,064	PORTAGE	1,834
FAYETTE	355	PREBLE	1,715
FRANKLIN	349	PUTNAM	4,690
FULTON	3,239	RICHLAND	6,360
GALLIA	603	ROSS	1,152
GEAUGA	3,081	SANDUSKY	799
GREENE	219	SCIOTO	-
GUERNSEY	1,601	SENECA	750
HAMILTON	288	SHELBY	7,006
HANCOCK	1,244	STARK	9,732
HARDIN	2,248	SUMMIT	-
HARRISON	829	TRUMBULL	3,015
HENRY	1,895	TUSCARAWAS	10,484
HIGHLAND	1,319	UNION	1,264
HOCKING	-	VAN WERT	3,375
HOLMES	17,515	VINTON	-
HURON	2,055	WARREN	136
JACKSON	319	WASHINGTON	2,506
JEFFERSON	1,819	WAYNE	33,681
KNOX	3,664	WILLIAMS	7,596
LAKE	-	WOOD	1,830
LAWRENCE	250	WYANDOT	1,467
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OHIO, HOGS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	4,774	LICKING	22,901
ALLEN	62,910	LOGAN	17,940
ASHLAND	15,316	LORAIN	5,417
ASHTABULA	574	LUCAS	4,268
ATHENS	397	MADISON	23,530
AUGLAIZE	91,925	MAHONING	1,222
BELMONT	90	MARION	47,002
BROWN	1,685	MEDINA	781
BUTLER	6,482	MEIGS	190
CARROLL	5,479	MERCER	273,762
CHAMPAIGN	23,779	MIAMI	10,429
CLARK	12,805	MONROE	338
CLERMONT	231	MONTGOMERY	7,679
CLINTON	18,376	MORGAN	4,164
COLUMBIANA	2,203	MORROW	32,030
COSHOCTON	26,898	MUSKINGUM	20,964
CRAWFORD	60,512	NOBLE	148
CUYAHOGA	(D)	OTTAWA	3,639
DARKE	225,171	PAULDING	17,477
DEFIANCE	10,891	PERRY	7,366
DELAWARE	35,587	PICKAWAY	29,111
ERIE	239	PIKE	868
FAIRFIELD	16,501	PORTAGE	524
FAYETTE	2,385	PREBLE	47,049
FRANKLIN	2,135	PUTNAM	77,003
FULTON	36,390	RICHLAND	19,213
GALLIA	465	ROSS	1,699
GEAUGA	493	SANDUSKY	5,591
GREENE	21,744	SCIOTO	299
GUERNSEY	6,504	SENECA	42,808
HAMILTON	24	SHELBY	75,499
HANCOCK	32,343	STARK	5,871
HARDIN	55,545	SUMMIT	(D)
HARRISON	363	TRUMBULL	553
HENRY	10,153	TUSCARAWAS	8,842
HIGHLAND	12,415	UNION	34,602
HOCKING	(D)	VAN WERT	25,344
HOLMES	5,781	VINTON	136
HURON	14,056	WARREN	942
JACKSON	115	WASHINGTON	1,249
JEFFERSON	(D)	WAYNE	51,920
KNOX	13,744	WILLIAMS	16,123
LAKE	49	WOOD	4,530
LAWRENCE	111	WYANDOT	39,469

OHIO, LAYERS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	1,829	LICKING	-
ALLEN	452	LOGAN	1,090
ASHLAND	69,349	LORAIN	2,874
ASHTABULA	3,783	LUCAS	565
ATHENS	2,113	MADISON	960
AUGLAIZE	670,918	MAHONING	2,925
BELMONT	1,438	MARION	571
BROWN	1,917	MEDINA	5,354
BUTLER	1,138	MEIGS	8,891
CARROLL	1,527	MERCER	8,013,436
CHAMPAIGN	2,256	MIAMI	7,932
CLARK	1,666	MONROE	1,057
CLERMONT	2,523	MONTGOMERY	2,019
CLINTON	1,110	MORGAN	1,495
COLUMBIANA	2,955	MORROW	22,331
COSHOCTON	102,524	MUSKINGUM	2,506
CRAWFORD	-	NOBLE	1,107
CUYAHOGA	868	OTTAWA	615
DARKE	8,381,549	PAULDING	639
DEFIANCE	484	PERRY	1,331
DELAWARE	1,600	PICKAWAY	1,048
ERIE	836	PIKE	1,120
FAIRFIELD	3,492	PORTAGE	2,189
FAYETTE	496	PREBLE	7,506
FRANKLIN	1,349	PUTNAM	194,332
FULTON	780	RICHLAND	77,495
GALLIA	1,953	ROSS	1,420
GEAUGA	4,833	SANDUSKY	942
GREENE	1,405	SCIOTO	-
GUERNSEY	1,815	SENECA	3,735
HAMILTON	532	SHELBY	-
HANCOCK	-	STARK	4,081
HARDIN	-	SUMMIT	3,262
HARRISON	960	TRUMBULL	2,460
HENRY	782	TUSCARAWAS	7,058
HIGHLAND	1,715	UNION	1,340
HOCKING	1,140	VAN WERT	-
HOLMES	226,945	VINTON	444
HURON	42,280	WARREN	1,750
JACKSON	990	WASHINGTON	1,481
JEFFERSON	507	WAYNE	729,880
KNOX	3,327	WILLIAMS	,
LAKE	1,046	WOOD	-
LAWRENCE	1,468	WYANDOT	-

OHIO, BROILERS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	696	LICKING	480
ALLEN	560	LOGAN	325
ASHLAND	0	LORAIN	1,474
ASHTABULA	1,726	LUCAS	285
ATHENS	0	MADISON	230
AUGLAIZE	0	MAHONING	522,805
BELMONT	107	MARION	180
BROWN	487	MEDINA	1,065
BUTLER	345	MEIGS	0
CARROLL	1,478	MERCER	0
CHAMPAIGN	721	MIAMI	350
CLARK	360	MONROE	10
CLERMONT	176	MONTGOMERY	885
CLINTON	218	MORGAN	0
COLUMBIANA	287,728	MORROW	789
COSHOCTON	406,001	MUSKINGUM	0
CRAWFORD	210	NOBLE	51
CUYAHOGA	0	OTTAWA	105
DARKE	1,963	PAULDING	0
DEFIANCE	63	PERRY	147
DELAWARE	410	PICKAWAY	60
ERIE	1,592	PIKE	0
FAIRFIELD	1,300	PORTAGE	822
FAYETTE	0	PREBLE	1,287
FRANKLIN	275	PUTNAM	0
FULTON	0	RICHLAND	107,731
GALLIA	366	ROSS	145
GEAUGA	2,331	SANDUSKY	0
GREENE	106	SCIOTO	0
GUERNSEY	514	SENECA	370
HAMILTON	0	SHELBY	296
HANCOCK	0	STARK	4,332,847
HARDIN	1,477	SUMMIT	323
HARRISON	0	TRUMBULL	1,749
HENRY	385	TUSCARAWAS	569,765
HIGHLAND	200	UNION	631
HOCKING	146	VAN WERT	0
HOLMES	2,504,477	VINTON	0
HURON	244,702	WARREN	720
JACKSON	273	WASHINGTON	216
JEFFERSON	102	WAYNE	688,721
KNOX	875	WILLIAMS	338
LAKE	0	WOOD	270
LAWRENCE	9	WYANDOT	0

OHIO, TURKEYS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	15	LICKING	32
ALLEN	57	LOGAN	40
ASHLAND	82	LORAIN	131
ASHTABULA	56	LUCAS	39
ATHENS	20	MADISON	(D)
AUGLAIZE	(D)	MAHONING	186
BELMONT	(D)	MARION	19
BROWN	97	MEDINA	645
BUTLER	17	MEIGS	(D)
CARROLL	44	MERCER	1,236,645
CHAMPAIGN	68	MIAMI	18
CLARK	102	MONROE	29
CLERMONT	44	MONTGOMERY	89
CLINTON	24	MORGAN	(D)
COLUMBIANA	68	MORROW	145
COSHOCTON	114	MUSKINGUM	50
CRAWFORD	(D)	NOBLE	(D)
CUYAHOGA	22	OTTAWA	(D)
DARKE	625,979	PAULDING	(D)
DEFIANCE	, 55	PERRY	25
DELAWARE	33	PICKAWAY	19
ERIE	32	PIKE	79
FAIRFIELD	51	PORTAGE	(D)
FAYETTE	-	PREBLE	(D)
FRANKLIN	75	PUTNAM	(D)
FULTON	9	RICHLAND	109
GALLIA	21	ROSS	31
GEAUGA	197	SANDUSKY	20
GREENE	18	SCIOTO	11
GUERNSEY	26	SENECA	9
HAMILTON	(D)	SHELBY	88
HANCOCK	-	STARK	159
HARDIN	14	SUMMIT	78
HARRISON	(D)	TRUMBULL	344
HENRY	(D)	TUSCARAWAS	131
HIGHLAND	7	UNION	(D)
HOCKING	(D)	VAN WERT	19
HOLMES	(D)	VINTON	13
HURON	23	WARREN	187
JACKSON	8	WASHINGTON	63
JEFFERSON	(D)	WAYNE	401
KNOX	(D)	WILLIAMS	77
LAKE	110	WOOD	8
LAWRENCE	23	WYANDOT	-
	25		

OHIO, GOATS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	683	LICKING	484
ALLEN	190	LOGAN	283
ASHLAND	519	LORAIN	428
ASHTABULA	129	LUCAS	58
ATHENS	213	MADISON	(D)
AUGLAIZE	244	MAHONING	115
BELMONT	574	MARION	91
BROWN	440	MEDINA	769
BUTLER	435	MEIGS	152
CARROLL	340	MERCER	317
CHAMPAIGN	960	MIAMI	391
CLARK	427	MONROE	809
CLERMONT	204	MONTGOMERY	152
CLINTON	435	MORGAN	379
COLUMBIANA	395	MORROW	362
COSHOCTON	832	MUSKINGUM	293
CRAWFORD	307	NOBLE	239
CUYAHOGA	(D)	OTTAWA	81
DARKE	452	PAULDING	132
DEFIANCE	129	PERRY	237
DELAWARE	201	PICKAWAY	517
ERIE	15	PIKE	187
FAIRFIELD	538	PORTAGE	273
FAYETTE	283	PREBLE	380
FRANKLIN	62	PUTNAM	220
FULTON	196	RICHLAND	114
GALLIA	673	ROSS	373
GEAUGA	287	SANDUSKY	75
GREENE	114	SCIOTO	198
GUERNSEY	575	SENECA	341
HAMILTON	59	SHELBY	194
HANCOCK	183	STARK	180
HARDIN	73	SUMMIT	76
HARRISON	389	TRUMBULL	247
HENRY	47	TUSCARAWAS	548
HIGHLAND	1,047	UNION	175
HOCKING	664	VAN WERT	58
HOLMES	602	VINTON	295
HURON	131	WARREN	108
JACKSON	246	WASHINGTON	180
JEFFERSON	201	WAYNE	427
KNOX	1,243	WILLIAMS	342
LAKE	[^] 76	WOOD	264
LAWRENCE	516	WYANDOT	110

OHIO, SHEEP, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	826	LICKING	4,491
ALLEN	820	LOGAN	1,777
ASHLAND	2,849	LORAIN	905
ASHTABULA	612	LUCAS	255
ATHENS	1,137	MADISON	1,001
AUGLAIZE	775	MAHONING	627
BELMONT	943	MARION	2,727
BROWN	524	MEDINA	958
BUTLER	870	MEIGS	151
CARROLL	1,736	MERCER	2,684
CHAMPAIGN	1,503	MIAMI	2,395
CLARK	918	MONROE	1,154
CLERMONT	202	MONTGOMERY	597
CLINTON	1,281	MORGAN	1,109
COLUMBIANA	1,820	MORROW	3,248
COSHOCTON	2,072	MUSKINGUM	4,476
CRAWFORD	791	NOBLE	1,738
CUYAHOGA	64	OTTAWA	335
DARKE	1,656	PAULDING	222
DEFIANCE	604	PERRY	947
DELAWARE	1,133	PICKAWAY	657
ERIE	565	PIKE	127
FAIRFIELD	1,222	PORTAGE	643
FAYETTE	2,030	PREBLE	1,186
FRANKLIN	956	PUTNAM	1,014
FULTON	1,124	RICHLAND	1,264
GALLIA	1,283	ROSS	1,216
GEAUGA	1,241	SANDUSKY	765
GREENE	1,325	SCIOTO	240
GUERNSEY	2,067	SENECA	2,770
HAMILTON	56	SHELBY	1,385
HANCOCK	1,134	STARK	1,582
HARDIN	1,148	SUMMIT	98
HARRISON	4,711	TRUMBULL	168
HENRY	115	TUSCARAWAS	1,908
HIGHLAND	3,537	UNION	1,257
HOCKING	611	VAN WERT	997
HOLMES	4,060	VINTON	207
HURON	1,289	WARREN	771
JACKSON	392	WASHINGTON	1,063
JEFFERSON	511	WAYNE	4,625
KNOX	11,588	WILLIAMS	1,227
LAKE	192	WOOD	672
LAWRENCE	189	WYANDOT	1,040

OHIO, ALPACAS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	(D)	LAKE	158
ALLEN	68	LICKING	202
ASHLAND	157	LOGAN	78
ASHTABULA	361	LORAIN	283
ATHENS	(D)	LUCAS	27
AUGLAIZE	(D)	MADISON	68
BELMONT	(D)	MAHONING	75
BUTLER	50	MARION	132
CARROLL	145	MEDINA	840
CHAMPAIGN	168	MIAMI	25
CLARK	236	MONROE	67
CLERMONT	163	MONTGOMERY	(D)
CLINTON	(D)	MORROW	24
COLUMBIANA	48	MUSKINGUM	(D)
COSHOCTON	23	NOBLE	(D)
CRAWFORD	36	OTTAWA	24
CUYAHOGA	147	PAULDING	30
DARKE	54	PERRY	(D)
DEFIANCE	(D)	PICKAWAY	80
DELAWARE	176	PORTAGE	524
ERIE	204	PREBLE	36
FAIRFIELD	90	PUTNAM	(D)
FAYETTE	57	RICHLAND	204
FRANKLIN	499	ROSS	(D)
FULTON	(D)	SANDUSKY	(D)
GALLIA	(D)	SCIOTO	(D)
GEAUGA	895	SENECA	-
GREENE	137	SHELBY	140
GUERNSEY	60	STARK	299
HAMILTON	(D)	SUMMIT	524
HANCOCK	661	TRUMBULL	373
HARDIN	(D)	TUSCARAWAS	42
HIGHLAND	(D)	UNION	87
HOCKING	(D)	VAN WERT	(D)
HOLMES	45	WARREN	637
HURON	113	WASHINGTON	118
JACKSON	50	WAYNE	225
JEFFERSON	(D)	WILLIAMS	27
KNOX	76	WOOD	120

OHIO, LLAMAS, BY COUNTY, 2007

ADAMS	COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ASHLAND 52 LORAIN 26 ASHTABULA 98 LUCAS (D) ATHENS 4 MADISON (D) AUGLAIZE (D) MAHONING 163 BELMONT 13 MARION 139 BROWN 28 MEDINA 139 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FRANKLIN 43 FRAN	ADAMS	10	LICKING	84
ASHTABULA 98 LUCAS (D) ATHENS 4 MADISON (D) AUGLAIZE (D) MAHONING 163 BELMONT 13 MARION 13 BROWN 28 MEDINA 139 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALIA 15 ROSS (D) GREENE 173 SCIOTO 81 GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HARDIN (D) TUSCARAWAS 100 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HARDIN (D) TUSCARAWAS 100 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HARDIN (D) TUSCARAWAS 100 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HARDIN (D) TUSCARAWAS 100 HARCOCK 11 VAN WERT (D) HARRISON 17 TRUMBULL 44 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) JACKSON 69 WASHINGTON 100 JACKSON 69 WASHINGTON 100 JACKSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYYANDOT 24	ALLEN	52	LOGAN	52
ATHENS 4 MADISON (D) AUGLAIZE (D) MAHONING 163 BELMONT 13 MARION 133 BROWN 28 MEDINA 139 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEALUGA 24 SANDUSKY (D) GEALUGA 24 SANDUSKY (D) GEALUGA 12 SENECA 12 HAMILTON 11 SHELBY 10 GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HOCKING 11 VAN WERT (D) JACKSON 69 WASHINGTON 104 JACKSON 16 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 44 WYANDOT 24	ASHLAND	52	LORAIN	26
AUGLAIZE (D) MAHONING 166 BELMONT 13 MARION 13 BROWN 28 MEDINA 139 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GREENE 173 SCIOTO 81 GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 STELBY 10 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAR 134 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAR 139 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	ASHTABULA	98	LUCAS	(D)
BELMONT 13 MARION 13 BROWN 28 MEDINA 133 BROWN 28 MEDINA 133 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FULTON 66 RICHLAND 18 GALIJA 15 ROSS (D) GEAUGA 24 SANDUSKY (ATHENS	4	MADISON	(D)
BROWN 28 MEDINA 139 BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIFFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEEAUGA 24 SANDUSKY	AUGLAIZE	(D)	MAHONING	163
BUTLER 70 MEIGS (D) CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GUERNSEY 123 SENECA	BELMONT	13	MARION	13
CARROLL 44 MIAMI 89 CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA	BROWN	28	MEDINA	139
CHAMPAIGN 20 MONROE 24 CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY	BUTLER	70	MEIGS	(D)
CLARK 57 MONTGOMERY 49 CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GERENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARDIN (D) SUMMIT	CARROLL	44	MIAMI	89
CLERMONT 14 MORGAN 19 CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GEAUGA 24 SANDUSKY (D) GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL	CHAMPAIGN	20	MONROE	24
CLINTON 40 MORROW 68 COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 11 HAMILTON 11 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS	CLARK	57	MONTGOMERY	49
COLUMBIANA 61 MUSKINGUM 197 COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARRISON 17 TRUMBULL 44 HENRY (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS <td>CLERMONT</td> <td>14</td> <td>MORGAN</td> <td>19</td>	CLERMONT	14	MORGAN	19
COSHOCTON 296 NOBLE (D) CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALIIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARRISON 17 TRUMBULL 44 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT	CLINTON	40	MORROW	68
CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARNICOCK 41 STARK 189 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN	COLUMBIANA	61	MUSKINGUM	197
CUYAHOGA 9 OTTAWA 8 DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GERENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARNICOCK 41 STARK 189 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN	COSHOCTON	296	NOBLE	(D)
DARKE 22 PAULDING 9 DELAWARE 67 PERRY 82 ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARNISON 11 SHELBY 10 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON	CUYAHOGA	9	OTTAWA	
ERIE (D) PICKAWAY 23 FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE	DARKE	22	PAULDING	
FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS <td>DELAWARE</td> <td>67</td> <td>PERRY</td> <td>82</td>	DELAWARE	67	PERRY	82
FAIRFIELD 205 PIKE (D) FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS <td>ERIE</td> <td>(D)</td> <td>PICKAWAY</td> <td>23</td>	ERIE	(D)	PICKAWAY	23
FAYETTE 10 PORTAGE 74 FRANKLIN 43 PREBLE 71 FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT	FAIRFIELD		PIKE	(D)
FULTON 66 RICHLAND 18 GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	FAYETTE	10	PORTAGE	
GALLIA 15 ROSS (D) GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	FRANKLIN	43	PREBLE	71
GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	FULTON	66	RICHLAND	18
GEAUGA 24 SANDUSKY (D) GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	GALLIA	15	ROSS	(D)
GREENE 173 SCIOTO 81 GUERNSEY 123 SENECA 12 HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	GEAUGA	24	SANDUSKY	
HAMILTON 11 SHELBY 10 HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	GREENE	173	SCIOTO	
HANCOCK 41 STARK 189 HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	GUERNSEY	123	SENECA	12
HARDIN (D) SUMMIT 54 HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HAMILTON	11	SHELBY	10
HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HANCOCK	41	STARK	189
HARRISON 17 TRUMBULL 44 HENRY (D) TUSCARAWAS 100 HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HARDIN	(D)	SUMMIT	54
HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HARRISON		TRUMBULL	44
HIGHLAND 40 UNION 236 HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HENRY	(D)	TUSCARAWAS	100
HOCKING 11 VAN WERT (D) HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HIGHLAND		UNION	236
HOLMES 65 WARREN 134 HURON 69 WASHINGTON 100 JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HOCKING			(D)
JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24				
JACKSON 6 WAYNE 60 JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	HURON	69	WASHINGTON	100
JEFFERSON 10 WILLIAMS 16 KNOX 270 WOOD 47 LAKE 4 WYANDOT 24	JACKSON			
KNOX 270 WOOD 47 LAKE 4 WYANDOT 24				
LAKE 4 WYANDOT 24				

OHIO, DOGS, BY COUNTY, 2007

ADAMS 7,578 LICKING 41,860 ALLEN 28,672 LOGAN 14,644 ASHLAND 13,949 LORAIN 78,139 ASHTABULA 28,841 LUCAS 128,811 ATHENS 15,937 MADISON 9,789 AUGLAIZE 12,369 MAHONING 72,114 BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CUINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 CUSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FRANKLIN 318,63 PUTNAM 8,542 FRIED 35,623 PORTAGE 11,396 FRANKLIN 31,863 PUTNAM 8,542 FRANKLIN 8,542	COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ASHLAND 13,949 LORAIN 78,139 ASHTABULA 28,841 LUCAS 128,811 ATHENS 15,937 MADISON 9,789 AUGLAIZE 12,369 MAHONING 72,114 BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 4,743 GALLIA 8,395 ROSS 19,040 GFALIGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GARRISON 4,872 TRUMBULL 61,316 HAMILTON 243,033 SHELBY 12,742 HAMCOCK 21,719 STARK 10,419 HAMILTON 1,584 HAMILTON 243,033 SHELBY 12,742 HARISON 4,872 TRUMBULL 61,316 HARISON 1,584 HAMILTON 1,585 HARRISON 1,575 HARRISON 1,5731 HARREN 4,565 HARRISON 1,5731 HARREN 1,565 HARREN 1,565 HARREN 1,565 HARREN 1,565 HARREN 1,565 HARR	ADAMS	7,578	LICKING	41,860
ASHTABULA ATHENS 15,937 AMDISON 9,789 AUGLAIZE 12,369 MAHONING 72,114 BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 CUYAHOGA 392,141 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 31,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDION 11,538 HAMILTON 243,033 SHELBY 12,742 HARDION 15,386 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 11,536 HARRISON 11,531 WARREN 16,450 JEFFERSON 11,538 WILLIAMS 11,540 JEFFERSON 12,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,755 JLAKE 62,666 WOOD 33,007	ALLEN	28,672	LOGAN	14,644
ATHENS 15,937 MADISON 9,789 AUGLAIZE 12,369 MAHONING 72,114 BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 CUSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 13,389 FAYETTE 8,049 PREBLE 11,389 FAYET	ASHLAND	13,949	LORAIN	78,139
AUGLAIZE 12,369 MAHONING 72,114 BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HARRISON 4,872 TRUMBULL 61,316 HARRISON 1,872 TRUMBULL 61,316 HARRISON 1,5731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 LAKE 62,666 WOOD 33,007	ASHTABULA	28,841	LUCAS	128,811
BELMONT 19,772 MARION 17,623 BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 P	ATHENS	15,937	MADISON	9,789
BROWN 12,491 MEDINA 42,446 BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 16,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIFIFELD 35,623 PORTAGE 41,396 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913	AUGLAIZE	12,369	MAHONING	72,114
BUTLER 91,160 MEIGS 6,821 CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 <t< td=""><td>BELMONT</td><td>19,772</td><td>MARION</td><td>17,623</td></t<>	BELMONT	19,772	MARION	17,623
CARROLL 8,220 MERCER 10,613 CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FAYETTE 8,049 PREBLE 11,389 FAYETTE 8,049 PREBLE 11,364 FULTON 10,913 <t< td=""><td>BROWN</td><td>12,491</td><td>MEDINA</td><td>42,446</td></t<>	BROWN	12,491	MEDINA	42,446
CHAMPAIGN 10,654 MIAMI 26,725 CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAYETTE 8,049 PREBLE 11,389 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIA 8,395 ROSS 19,040 GEAUGA 22,478 SA	BUTLER	91,160	MEIGS	6,821
CLARK 39,386 MONROE 4,546 CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIFFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GRENE 42,228 <td< td=""><td>CARROLL</td><td>8,220</td><td>MERCER</td><td>10,613</td></td<>	CARROLL	8,220	MERCER	10,613
CLERMONT 49,383 MONTGOMERY 161,150 CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIJA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,991 GUERNSEY 12,359	CHAMPAIGN	10,654	MIAMI	26,725
CLINTON 11,418 MORGAN 5,082 COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 <	CLARK	39,386	MONROE	4,546
COLUMBIANA 29,585 MORROW 8,375 COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 <td< td=""><td>CLERMONT</td><td>49,383</td><td>MONTGOMERY</td><td>161,150</td></td<>	CLERMONT	49,383	MONTGOMERY	161,150
COSHOCTON 10,178 MUSKINGUM 22,411 CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 <td< td=""><td>CLINTON</td><td>11,418</td><td>MORGAN</td><td>5,082</td></td<>	CLINTON	11,418	MORGAN	5,082
CRAWFORD 13,073 NOBLE 3,573 CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCA	COLUMBIANA	29,585	MORROW	8,375
CUYAHOGA 392,141 OTTAWA 17,245 DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCA	COSHOCTON	10,178	MUSKINGUM	22,411
DARKE 14,116 PAULDING 5,564 DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN	CRAWFORD	13,073	NOBLE	3,573
DEFIANCE 10,708 PERRY 8,957 DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,884 VI	CUYAHOGA	392,141	OTTAWA	17,245
DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,894 VINTON 3,585 HURON 15,731 WARREN	DARKE	14,116	PAULDING	5,564
DELAWARE 39,528 PICKAWAY 12,502 ERIE 23,740 PIKE 7,817 FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN	DEFIANCE	10,708	PERRY	8,957
FAIRFIELD 35,623 PORTAGE 41,396 FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WAS	DELAWARE	39,528	PICKAWAY	12,502
FAYETTE 8,049 PREBLE 11,389 FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 W	ERIE	23,740	PIKE	7,817
FRANKLIN 331,863 PUTNAM 8,542 FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WIL	FAIRFIELD	35,623	PORTAGE	41,396
FULTON 10,913 RICHLAND 34,743 GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD<	FAYETTE	8,049	PREBLE	11,389
GALLIA 8,395 ROSS 19,040 GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	FRANKLIN	331,863	PUTNAM	8,542
GEAUGA 22,478 SANDUSKY 16,488 GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	FULTON	10,913	RICHLAND	34,743
GREENE 42,228 SCIOTO 21,901 GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	GALLIA	8,395	ROSS	19,040
GUERNSEY 12,359 SENECA 15,386 HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	GEAUGA	22,478	SANDUSKY	16,488
HAMILTON 243,033 SHELBY 12,742 HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	GREENE	42,228	SCIOTO	21,901
HANCOCK 21,719 STARK 104,192 HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	GUERNSEY	12,359	SENECA	15,386
HARDIN 8,316 SUMMIT 153,865 HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HAMILTON	243,033	SHELBY	12,742
HARRISON 4,872 TRUMBULL 61,316 HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HANCOCK	21,719	STARK	104,192
HENRY 7,765 TUSCARAWAS 24,599 HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HARDIN	8,316	SUMMIT	153,865
HIGHLAND 11,583 UNION 11,921 HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HARRISON	4,872	TRUMBULL	61,316
HOCKING 7,899 VAN WERT 8,050 HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HENRY	7,765	TUSCARAWAS	24,599
HOLMES 7,984 VINTON 3,585 HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HIGHLAND	11,583	UNION	11,921
HURON 15,731 WARREN 48,629 JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HOCKING	7,899	VAN WERT	8,050
JACKSON 9,268 WASHINGTON 17,640 JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HOLMES	7,984	VINTON	3,585
JEFFERSON 21,159 WAYNE 29,013 KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	HURON	15,731	WARREN	48,629
KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	JACKSON	9,268	WASHINGTON	17,640
KNOX 15,308 WILLIAMS 10,753 LAKE 62,666 WOOD 33,007	JEFFERSON	21,159	WAYNE	29,013
LAKE 62,666 WOOD 33,007	KNOX		WILLIAMS	
LAWRENCE 17,231 WYANDOT 6,132	LAKE	62,666	WOOD	
	LAWRENCE	17,231	WYANDOT	6,132

OHIO, CATS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	8,549	LICKING	47,225
ALLEN	32,347	LOGAN	16,521
ASHLAND	15,737	LORAIN	88,154
ASHTABULA	32,537	LUCAS	145,320
ATHENS	17,979	MADISON	11,044
AUGLAIZE	13,954	MAHONING	81,357
BELMONT	22,306	MARION	19,882
BROWN	14,092	MEDINA	47,887
BUTLER	102,844	MEIGS	7,695
CARROLL	9,274	MERCER	11,973
CHAMPAIGN	12,020	MIAMI	30,150
CLARK	44,434	MONROE	5,129
CLERMONT	55,712	MONTGOMERY	181,804
CLINTON	12,881	MORGAN	5,733
COLUMBIANA	33,377	MORROW	9,449
COSHOCTON	11,482	MUSKINGUM	25,283
CRAWFORD	14,748	NOBLE	4,031
CUYAHOGA	442,400	OTTAWA	19,456
DARKE	15,925	PAULDING	6,277
DEFIANCE	12,080	PERRY	10,105
DELAWARE	44,595	PICKAWAY	14,105
ERIE	26,782	PIKE	8,818
FAIRFIELD	40,189	PORTAGE	46,702
FAYETTE	9,080	PREBLE	12,849
FRANKLIN	374,396	PUTNAM	9,637
FULTON	12,311	RICHLAND	39,196
GALLIA	9,471	ROSS	21,481
GEAUGA	25,359	SANDUSKY	18,601
GREENE	47,641	SCIOTO	24,708
GUERNSEY	13,943	SENECA	17,358
HAMILTON	274,181	SHELBY	14,375
HANCOCK	24,502	STARK	117,546
HARDIN	9,382	SUMMIT	173,586
HARRISON	5,497	TRUMBULL	69,175
HENRY	8,760	TUSCARAWAS	27,751
HIGHLAND	13,068	UNION	13,449
HOCKING	8,911	VAN WERT	9,082
HOLMES	9,007	VINTON	4,045
HURON	17,747	WARREN	54,861
JACKSON	10,456	WASHINGTON	19,901
JEFFERSON	23,871	WAYNE	32,732
KNOX	17,270	WILLIAMS	12,131
LAKE	70,698	WOOD	37,237
LAWRENCE	19,440	WYANDOT	6,918

OHIO, BIRDS, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	1,175	LICKING	6,491
ALLEN	4,446	LOGAN	2,271
ASHLAND	2,163	LORAIN	12,117
ASHTABULA	4,472	LUCAS	19,974
ATHENS	2,471	MADISON	1,518
AUGLAIZE	1,918	MAHONING	11,182
BELMONT	3,066	MARION	2,733
BROWN	1,937	MEDINA	6,582
BUTLER	14,136	MEIGS	1,058
CARROLL	1,275	MERCER	1,646
CHAMPAIGN	1,652	MIAMI	4,144
CLARK	6,107	MONROE	705
CLERMONT	7,658	MONTGOMERY	24,988
CLINTON	1,770	MORGAN	788
COLUMBIANA	4,588	MORROW	1,299
COSHOCTON	1,578	MUSKINGUM	3,475
CRAWFORD	2,027	NOBLE	554
CUYAHOGA	60,807	OTTAWA	2,674
DARKE	2,189	PAULDING	863
DEFIANCE	1,660	PERRY	1,389
DELAWARE	6,129	PICKAWAY	1,939
ERIE	3,681	PIKE	1,212
FAIRFIELD	5,524	PORTAGE	6,419
FAYETTE	1,248	PREBLE	1,766
FRANKLIN	51,460	PUTNAM	1,325
FULTON	1,692	RICHLAND	5,387
GALLIA	1,302	ROSS	2,952
GEAUGA	3,485	SANDUSKY	2,557
GREENE	6,548	SCIOTO	3,396
GUERNSEY	1,916	SENECA	2,386
HAMILTON	37,686	SHELBY	1,976
HANCOCK	3,368	STARK	16,156
HARDIN	1,289	SUMMIT	23,859
HARRISON	755	TRUMBULL	9,508
HENRY	1,204	TUSCARAWAS	3,814
HIGHLAND	1,796	UNION	1,849
HOCKING	1,225	VAN WERT	1,248
HOLMES	1,238	VINTON	556
HURON	2,439	WARREN	7,541
JACKSON	1,437	WASHINGTON	2,735
JEFFERSON	3,281	WAYNE	4,499
KNOX	2,374	WILLIAMS	1,667
LAKE	9,717	WOOD	5,118
LAWRENCE	2,672	WYANDOT	951

OHIO, HORSES, BY COUNTY, 2007

COUNTY	NUMBER OF HEAD	COUNTY	NUMBER OF HEAD
ADAMS	755	LICKING	4,173
ALLEN	2,858	LOGAN	1,460
ASHLAND	1,390	LORAIN	7,789
ASHTABULA	2,875	LUCAS	12,840
ATHENS	1,589	MADISON	976
AUGLAIZE	1,233	MAHONING	7,189
BELMONT	1,971	MARION	1,757
BROWN	1,245	MEDINA	4,231
BUTLER	9,087	MEIGS	680
CARROLL	819	MERCER	1,058
CHAMPAIGN	1,062	MIAMI	2,664
CLARK	3,926	MONROE	453
CLERMONT	4,923	MONTGOMERY	16,064
CLINTON	1,138	MORGAN	507
COLUMBIANA	2,949	MORROW	835
COSHOCTON	1,015	MUSKINGUM	2,234
CRAWFORD	1,303	NOBLE	356
CUYAHOGA	39,090	OTTAWA	1,719
DARKE	1,407	PAULDING	555
DEFIANCE	1,067	PERRY	893
DELAWARE	3,940	PICKAWAY	1,246
ERIE	2,366	PIKE	779
FAIRFIELD	3,551	PORTAGE	4,127
FAYETTE	802	PREBLE	1,135
FRANKLIN	33,081	PUTNAM	852
FULTON	1,088	RICHLAND	3,463
GALLIA	837	ROSS	1,898
GEAUGA	2,241	SANDUSKY	1,644
GREENE	4,209	SCIOTO	2,183
GUERNSEY	1,232	SENECA	1,534
HAMILTON	24,226	SHELBY	1,270
HANCOCK	2,165	STARK	10,386
HARDIN	829	SUMMIT	15,338
HARRISON	486	TRUMBULL	6,112
HENRY	774	TUSCARAWAS	2,452
HIGHLAND	1,155	UNION	1,188
HOCKING	787	VAN WERT	802
HOLMES	796	VINTON	357
HURON	1,568	WARREN	4,847
JACKSON	924	WASHINGTON	1,758
JEFFERSON	2,109	WAYNE	2,892
KNOX	1,526	WILLIAMS	1,072
LAKE	6,247	WOOD	3,290
LAWRENCE	1,718	WYANDOT	611
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