

The Ohio State University College of Veterinary Medicine's vital contributions to Ohio's agricultural economy

Agriculture is the number one industry in Ohio and animal agriculture is a major contributor to Ohio's economy.

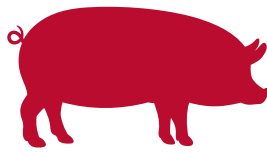
Ohio ranks 15th among all states in total agriculture production and is a national top-producing state in several animal agricultural sectors.



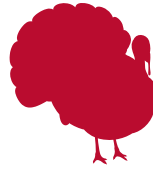
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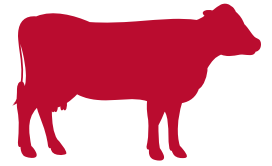
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Whether it's educating the next generation of veterinarians, researching innovative and impactful ways to protect and sustain healthy animals and ecosystems or supporting the industry through farm animal and equine care and surveillance to prevent future infectious disease outbreaks that could decimate livestock and poultry industries, Ohio State's College of Veterinary is an active contributor to the state's animal agriculture economy.

EDUCATION

- **Veterinary Early Commitment Program:** In partnership with the Ohio State College of Food, Agricultural, and Environmental Sciences, the college mentors up to 10 Animal Science students each academic year to prepare for successful admission to veterinary school and future careers in farm animal medicine, establishing a pipeline to support Ohio farms and agricultural industry
- **Focused Scholarships:** At least 22 college scholarships support students specifically interested in farm animal, equine or mixed practice careers, reducing student's debt load and encouraging students to pursue positions in these areas, and students interested in these areas are eligible for many other scholarships
- **Farm Animal and Rural Practice Spectrum of Care Summer Externship:** The program combines intensive educational training with real-world clinical practice experience with under served populations, through observation and performance, students are prepared to work with clients at various socioeconomic levels, including underserved populations in rural areas
- **Career Area of Emphasis:** Fourth-year clinical training provides students with valuable hands-on experience in farm animal, equine and mixed animal practice, with approximately 1/3 of students choosing this path as they complete their final year of veterinary school
- **Agriculture Workforce:** About 10 percent of graduates each year join farm animal, equine or mixed practices in Ohio
- **Advanced Training Programs:** Currently, close to 20 residency and internship programs focused in Farm Animal Medicine and Surgery, Equine Medicine and Equine Surgery, and Theriogenology (reproduction), help prepare specialists ready to take care of the most advanced cases on farms and in veterinary clinics across the state and contributes through innovative and impactful research and outreach to advancing animal agriculture

RESEARCH

- **One Health Approach:** The college is advancing research that protects healthy and sustainable practices in epidemiology, infectious disease prevention and containment, biosecurity, food safety and production, animal welfare, antimicrobial resistance and stewardship, and prevention of zoonotic diseases, those diseases that can be transmitted from animals to humans
- **Food and Farm Animal Sustainability:** There are 15 faculty currently conducting research, including
 - Swine Industry partnerships create opportunities for applied research addressing the most urgent issues of the moment, such as swine flu
 - Testing of new small ruminant parasite vaccine to address growing issue of parasitic diseases in goats and sheep
 - Effective non-antibiotic treatment of mastitis on organic dairy farms
 - Effective antibiotic alternatives in Ohio and US agriculture

OUTREACH

- **Antimicrobial Stewardship:** Promotion of safe and effective antimicrobial use through established guidelines and surveillance for veterinary practices and farms across the state
 - Deliver antibiotic stewardship training for farm workers
 - Designated International Reference Centre for Antimicrobial Resistance by United Nations Food and Agriculture Organization (1 of only 5 worldwide)
- **Veterinary Extension:** 3 faculty specialists jointly supported by the College of Veterinary Medicine and OSU Extension support animal agriculture and food animal veterinarians. Since 2008, more than 12,000 participants have attended programs that translate science-based knowledge and skills into practical solutions for immediate use
- **Youth Programs:** Last year, more than 9,000 youth participated in programs covering topics like risk and prevention of zoonotic disease, STEM careers, animal health, food supply veterinary medicine, foreign animal disease prevention, and biosecurity to increase awareness of safe farming practices and encourage students to explore agriculture or veterinary related professions
- **Animal Care:**
 - 10 clinical farm animal faculty veterinarians involved in teaching, research, and patient care on the Marysville and Columbus campuses, with Marysville making more than 1,500 farm calls each year and treating more than 27,000 animals in our clinics and on farms across Ohio
 - 2 theriogenology (reproductive medicine) faculty veterinarians provide individual animal and herd reproductive medicine teaching, research, and patient care
 - 11 equine faculty veterinarians across medicine, surgery, emergency & critical care, and ambulatory/field services are involved in teaching, research, and patient care in our clinics and on farms across Ohio, making more than 1,600 farms calls and treating more than 2,500 patients
- **Partnerships:**
 - Support Ohio Department of Agriculture (ODA) and the State Veterinarian's Office through developing Emergency Preparedness protocols for detection, containment and prevention of infectious diseases that can cause outbreaks and devastate herds and flocks such as highly pathogenic avian influenza, African swine fever, and porcine epidemic diarrhea virus
 - Joint training programs place trainees with the ODA part-time and part-time at the college completing a Veterinary Public Health Residency, successful trainees will become future leaders of state diagnostic laboratories and emergency animal response veterinarians
 - Developing and testing humane methods for depopulation that may be required in animal health emergencies
- **Continuing Education:**
 - More than 20 events each year are a complimentary resource helping veterinarians stay up to date on the latest information and maintain their license.
 - Farm animal and equine faculty serve as lecturers at state, national and international meetings

