Ohio State University Extension Internship Program
Intern Work Plan – June 3 to August 9, 2019

1. Location/County: Hancock and Paulding Counties

2. Supervisor of Intern: Glen Arnold (Hancock); Sarah Noggle and Michael Schweinsberg (Paulding)

3. Supervisor email address: arnold.2@osu.edu, noggle.17@osu.edu, and schweinsberg.5@osu.edu

4. Identify the program and impact area(s) that will be the major focus of the intern.
   Impact Area(s) – check a maximum of two
   _____ Health and Wellness
   _____ Workforce Development
   _____ Thriving Across the Life Span
   _____ Sustainable Food Systems
   __X__ Engaged Ohioans, Vibrant Communities
   __X__ Environmental Quality

   Program Area(s) – check all that apply
   __X__ Agriculture and Natural Resources
   _____ Community Development
   _____ Family and Consumer Sciences
   __X__ 4-H Youth Development

5. Identify the impact area-related activities/projects/products that it is anticipated the intern will complete during the internship.
   Environmental Quality
   Learn how to plan and implement extension programs in rural areas
   Learn to design and layout extension research and demonstration field sites
   Learn how we conduct research with liquid manure go get faster adaption by farmers
   Learn to collect data, tabulate data, summarize data, and write up research results
   Learn about the Edge of Field water quality research being conducted in Ohio
   Learn about various commonly used agricultural fertilizers in row crop production and how they compare with manure
   Learn about what fertilizers are believed to be responsible for the water quality issues
Lean how the Right Fertilizer, at the Right Time, in the Right Place, and in the Right Amount could impact water quality in the state
Learn the soil test research-based draw down level, maintenance range, and buildup levels of phosphorus on soil tests
Learn how livestock production systems in Ohio are integrated depending on the species

*Engaged Ohioans, Vibrant Communities*
Paulding County Fair - Acres of Fun teaching activities
Paulding County Master Gardeners
Summer Youth Food Program in Paulding County
Precision Ag Field Day in Paulding County
Trap insect pests in Paulding County on a weekly basis

6. **List a minimum of six activities in which the intern will participate.** These activities and meetings should be within the impact areas, across program areas and/or with the community or other professionals.
   - Assist with planning and implementing the Ohio Manure Science Review
   - Assist with designing and staking research and demonstration field sites
   - Assist with completing liquid manure sidedress demonstration plots in western Ohio
   - Assist with tabulating, summarizing, and writing up research plot data
   - Assist with collecting and analyzing plant tissue samples
   - Assist with manure sample collection and report analysis
   - Assist with manure equipment calibration
   - Assist with literature review for future research projects
   - Assist with taking corn, soybean and wheat population stands
   - Assist with estimating wheat yields
   - Learn about research plot layout and design and the need for replication and statistical analysis
   - Attend the North American Manure Expo being held in Indiana
   - Assist with the Paulding County fair
   - Assist with the Summer Youth Food Program in Paulding County
   - Assist with the Paulding County Master Gardener summer community programs

7. **Briefly describe the length of experience of the educator who will mentor the intern and/or the experience of the supervising educator/county team members.** Our goal is to ensure the intern has a meaningful educational experience in which the intern learns the value and contribution of the Extension system and the impacts we produce for our clientele.
   We hosted an ACRE intern in 2018 shared between Paulding, Hancock, and Putnam Counties. In addition to working on manure research and demonstration plots, we spent time with the intern on a wide variety of agronomic topics throughout the summer. When crops emerged, we took stand counts. When diseases occurred, we cut up plants and their roots to learn why. When wheat fields flowered, we looked for head scab issues.
When corn pollinated, we took plant tissue samples to determine nutrient sufficiency. We attended agency and public officials meetings on water quality and harmful algae blooms. All these experiences exposed the Intern to the wide variety of challenges a county agricultural educator would be contacted about by local clientele. The intern also helped with two county fairs and learned how county extension office staff work together on major projects.