**PA FFA Agronomy**

**Career Development Event**

***Chairperson Information***

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| **CDE Chairperson** | Grace Shawver  Assistant: Jarod Armstrong |
| **Email** | gshawver@mifflinburg.org  jarmstrong@mifflinburg.org |
| **Best Contact Number** | 814-933-4938  717-363-6155 |
| **Contest Date/Times** | Tuesday 9:00 A.M. Campus Classroom  Wednesday 9:00 A.M @ Agronomy Research Farm, Rock Springs, PA |
| **Contest Location** | Classroom on campus- Tuesday  Agronomy Research Farm- Wednesday |

***Basic CDE Guidelines***

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| **Event Type:** Individual (800 pts) or  Team (4000 pts) | **# of Team Members:** 4 required |
| Individual Materials List   * Recent PSU Agronomy Guide * Basic Non-Scientific Calculator * Pencil * Clipboard | Group Materials List   * Nothing Additional |
| Attire   * Official Dress Tuesday * Field Appropriate Clothing Wednesday | CDE At-A-Glance (List of major components)   * General Knowledge Exam * Agronomy Guide Exam * Weed, Crop, Seed, Pest, and Machinery Identification * Soils * Commodity Evaluation * Team Activity |
| Pre-State CDE Expectations   * Students should have a general background knowledge of all facets of the subject of agronomy, being either practical knowledge and/or knowledge from classroom instruction. * Familiarity with the use of the PSU Agronomy Guide. * Having previously been exposed to a soil pit for analysis and education purposes. * Familiarity with PSU soil test reports. | |

***CDE Rules***

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| **CDE Component** | **Points** | **Component Description** |
| General Knowledge Exam | 100 | 40 question multiple choice exam |
| Agronomy Guide Exam | 50 | 20 question multiple choice exam with use of PSU Agronomy Guide |
| Weed Identification | 50 | Identification of live local weed plant specimens |
| Crop Identification | 50 | Identification of live local crop plant specimens |
| Seed Identification | 50 | Identification of local crop seed samples (no weed seed ID) |
| Pest Management Identification | 100 | * Diseases and Disorders from actual plant specimens and/or pictures **(odd years)** * Insect ID from preserved specimens and/or pictures **(even years)** |
| Machinery Identification | 100 | Identification of actual equipment and machinery |
| Soils | 100 | May include: analysis of soil web survey data, soil pit analysis, soil test report analysis, land capability classes, topographical analysis |
| Commodity Evaluation | 200 | Grain grading (80 pts), Variety selection (60 pts), Usability - Judging classes of crop samples from 2 plant species (60 pts) |
| Team Activity | 200 (per team member- not included in individual score) | A field-based activity for teams of 4 that may include (but not limited to) acreage calculation, weed/disorder identification, pesticide recommendation, soil analysis, and population calculation. - *Individuals competing in this CDE may also participate individually or in combination with other individuals in the team activity, however their scores will not count for or against their total individual score. Only registered teams of 4 students per team will be scored as teams.* |
| **Causes for Disqualification:** Cheating, use of cell phones during the competition, having previously won this competition and competed at the national level in the past. | | |
| **Tie-breaker:** In the event of a tie, the individual (or team collective score) with the highest General Knowledge Exam Score will be placed higher. If a tie still exists, Weed-Crop-Seed Identification will be analyzed second. | | |

***Resources***

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| Recent PSU Agronomy Guide  Examples of PSU soil test reports  Resources included in the national Agronomy CDE link: <https://www.ffa.org/SiteCollectionDocuments/cde_2017_2021_agronomy.pdf> |