2025 Region 5 Collegiate Soil Judging Contest University of Nebraska at Omaha

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| **SCORING** |
| **A.** |  |  |
| **B.** |  |  |
| **C.** |  |  |
| **D.** |  |  |
| **E.** |  |  |
| **Total:** |  |  |

|  |  |
| --- | --- |
| Team |  |
| Contestant |  |
| Site |  |
| Number of Horizons |  |
| Profile Depth (cm) |  |
| Nail Depth (cm) |  |

Sept. 28 – Oct. 3, 2025

1. **Site Characteristics Part A Score**

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| --- | --- | --- | --- |
| **Landform (5)** | **Parent Material (5)\*** | **Slope (5)** | **Hillslope Position (5)** |
|  Constructed |  Alluvium |  0 to <2 % |  Summit |
|  Depression |  Old Alluvium |  2 to <5 % |  Shoulder |
|  Floodplain |  Colluvium |  5 to <9 % |  Backslope |
|  Terrace  |  Eolian Sand |  9 to <14 % |  Footslope |
|  Paleoterrace |  Glacial Till / Outwash |  14 to <18 % |  None |
|  Upland |  Loess |  18 to <25 % |  |
|  |  Residuum |  ≥25 % |  |

1. **Soil Morphology Part B Score**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Boundary** | **Structure** | **RMF** | **Color** | **Texture** | **Roots** | **Efferv.** | **Horizonation** | **Total** |
| Lower Depth | Dist. | Grade | Type | Conc. | Depl. | Hue | Value | Chroma | RFM | Class | %Clay | %Sand |  Root  Abund. | RootSize | Y/N | Prefix | Master | Suffix | No. | Total |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 40 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. **Soil Hydrology and Profile Properties Part C Score**

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| **Effective Soil Depth (5)** | **Hydraulic Conductivity (3-5-3)** | **Surface Runoff (5)** | **Available Water Holding Capacity (5)** | **Soil Wetness Class (5)** |
| **Surface Layer** | **Limiting Layer** |
|  Very Deep (≥ 150 cm) |  Very High |  Very High |  Negligible or Ponded |  Very Low (<7.5 cm) |  Class 1 (≥ 150 cm) |
|  Deep (100.1 to <150 cm) |  High |  High |  Very Low |  Low (7.5 to <15 cm) |  Class 2 (100.1 to <150 cm) |
|  Mod. Deep (50.1 to <100 cm) |  Moderately High |  Moderately High |  Low |  Medium (15.0 to <22.5 cm) |  Class 3 (50.1 to <100 cm) |
|  Shallow (25.1 to <50 cm) |  Moderately Low |  Moderately Low |  Medium |  High (≥ 22.5 cm) |  Class 4 (25.1 to <50 cm) |
|  Very Shallow (<25 cm) |  Low |  Low |  High |  |  Class 5 (<25 cm) |
|  |  Very Low |  Very Low |  Very High |  |  |

1. **Soil Classification Part D Score**

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| **Epipedon** **(5)** | **Diagnostic Subsurface****Horizons & Characteristics (5)\*** | **Order (5)** | **Suborder (5)** | **Great Group (5)** | **Particle-Size Control Section (5)** |  **Family Particle**  **Size Class (5)\*** |
|  Mollic |  Abrupt textural change |  Mollisol |  Alboll |  Arigalboll |  \_\_\_\_Epiaquept |  0 cm to root limiting layer (limiting layer < 36 cm depth) |  Sandy |
|  Ochric |  Albic |  Alfisol |  Aquoll |  Calciaquoll |  Endoaquept |  Loamy |
|  Umbric |  Aquic conditions |  Inceptisol |  Udoll |  Argiaquoll |  Eutrudept |  Upper 50 cm of argillic |  Coarse Loamy |
|  None |  Argillic |  Entisol |  Aqualf |  Epiaquoll |  Dystrudept |  Upper boundary of argillic to 100 cm (contrasting particle size class) |  Fine Loamy |
|  |  Calcic |  |  Udalf |  Endoaquoll |  Psammaquent |  Coarse Silty |
|  |  Cambic |  |  Aquept |  Calciudoll |  Fluvaquent |  All of the argillic, where < 50 cm thick |  Fine Silty |
|  |  Lithic contact |  |  Udept |  Argiudoll |  Epiaquent |  25-100 cm |  Clayey |
|  |  Lithologic discontinuity |  |  Aquent |  Hapludoll |  Endoaquent |  25 cm to root limiting layer (36-100 cm depth) |  Fine |
|  |  Paralithic contact |  |  Psamment |  Albaqualf |  Quartzipsamment |  Very Fine |
|  |  Secondary carbonates |  |  Fluvent |  Epiaqualf |  Udipsamment |  |  Sandy-skeletal |
|  |  None |  |  Orthent |  Endoaqualf |  \_\_\_\_Udifluvent |  |  Loamy-skeletal |
|  |  |  |  |  \_\_\_\_Hapludalf |  Udorthent |  |  Clayey-skeletal |
|  |  |  |  |  |  |  |  Contrasting (any) |
| \*More than one may be present |  |  |  |  |  |  |

1. **Site Interpretations Part E Score**

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| **Septic Tank Absorption Field (5)** | **Local Roads and Streets (5)** | **Dwellings with Basements (5)** |
|  Slight |  Slight |  Slight |
|  Moderate |  Moderate |  Moderate |
|  Severe |  Severe |  Severe |
| Reason(s):  | Reason(s):  | Reason(s):  |

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