# Butler County HEL List (10-2015)

| SOIL SERIES | Published Symbol | Surface Texture | K (Kw) | Kf | T | RUSLE R Factor | USLE R Factor | CRI. LS | SLOPE RANGE (feet) | RV slope (feet) | % slope used | LS factor | HEL Det. HE - highly erode N- not erodible P - potential | Hydric Det. H - hydric I - inclusions N - not hydric |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Allegheny** | AlB | **l** | 0.24 | 0.24 | 5 | 210 | 175 | 0.952 | 100-250 | 150 | 5 | 0.656 | N | N |
| **Allegheny** | AlC2 | **l** | 0.24 | 0.24 | 5 | 210 | 175 | 0.952 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Allegheny** | AlC3 | **l** | 0.28 | 0.28 | 4 | 210 | 175 | 0.653 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Allegheny** | AlD2 | **l** | 0.24 | 0.24 | 5 | 210 | 175 | 0.952 | 50-100 | 100 | 16 | 2.84 | HE | N |
| **Allegheny** | AlD3 | **l** | 0.28 | 0.28 | 4 | 210 | 175 | 0.653 | 50-100 | 100 | 16 | 2.84 | HE | N |
| **Baxter** | BaB | **gr-sil** | 0.2 | 0.32 | 5 | 210 | 175 | 1.143 | 50-200 | 150 | 6 | 0.824 | N | N |
| **Baxter** | BaC2 | **gr-sil** | 0.2 | 0.32 | 5 | 210 | 175 | 1.143 | 50-200 | 100 | 10 | 1.37 | HE | N |
| **Baxter** | BaD2 | **gr-sil** | 0.2 | 0.32 | 5 | 210 | 175 | 1.143 | 50-200 | 100 | 16 | 2.84 | HE | N |
| **Baxter** | BaE | **gr-sil** | 0.17 | 0.32 | 5 | 210 | 175 | 1.345 | 50-200 | 100 | 21 | 4.08 | HE | N |
| **Bethesda-Fairpoint Complex** | BfB | **-** | - | - | - | 210 | 175 | | 50-300 | 150 | 6 | 0.824 | N | N |
| | Bethesda | **cn-sicl** | 0.24 | 0.43 | 5 | 210 | 175 | 0.952 | – | – | – | – | – | – |
| | Fairpoint | **cn-sil** | 0.2 | 0.43 | 5 | 210 | 175 | 1.143 | – | – | – | – | – | – |
| **Bethesda-Fairpoint Complex** | BfC | **-** | - | - | - | 210 | 175 | | 50-200 | 100 | 10 | 1.37 | HE | N |
| | Bethesda | **cn-sicl** | 0.24 | 0.43 | 5 | 210 | 175 | 0.952 | – | – | – | – | – | – |
| | Fairpoint | **cn-sil** | 0.2 | 0.43 | 5 | 210 | 175 | 1.143 | – | – | – | – | – | – |
| **Bethesda-Fairpoint Complex** | BfD | **-** | - | - | - | 210 | 175 | | 50-200 | 100 | 16 | 2.84 | HE | N |
| | Bethesda | **cn-sicl** | 0.24 | 0.43 | 5 | 210 | 175 | 0.952 | - | - | - | - | - | - |
| | Fairpoint | **cn-sil** | 0.2 | 0.43 | 5 | 210 | 175 | 1.143 | - | - | - | - | - | - |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bethesda-Fairpoint Complex** | BfE | **-** | - | - | - | 210 | 175 | | 50-150 | 100 | 25 | 5.34 | HE | N |
| | Bethesda | **cn-sicl** | 0.24 | 0.43 | 5 | 210 | 175 | 0.952 | - | - | - | - | - | - |
| | Fairpoint | **cn-sil** | 0.2 | 0.43 | 5 | 210 | 175 | 1.143 | - | - | - | - | - | - |
| **Caneyville** | CaB2 | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | 100-200 | 150 | 4 | 0.471 | HE | N |
| **Caneyville** | CaC2 | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Caneyville** | CcC3 | **sicl** | 0.37 | 0.37 | 1 | 210 | 175 | 0.124 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Caneyville- Lenberg complex** | CeD | **-** | - | - | - | 210 | 175 | | 50-150 | 100 | 16 | 2.84 | HE | N |
| | Caneyville | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | - | - | - | - | - | - |
| | Lenberg | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | - | - | - | - | - | - |
| **Caneyville- Lenberg-Rock-outcrop complex** | CgE | **-** | - | - | - | 210 | 175 | | 25-125 | 100 | 21 | 4.08 | HE | N |
| | Caneyville | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | - | - | - | - | - | - |
| | Lenberg | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | - | - | - | - | - | - |
| | Rock outcrop | **-** | - | - | - | - | - | -- | -- | -- | -- | -- | -- | -- |
| **Caneyville-Rock-outcrop complex** | CkD | **-** | - | - | - | 210 | 175 | | 50-150 | 100 | 16 | 2.84 | HE | N |
| | Caneyville | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | -- | -- | -- | -- | -- | -- |
| | Rock outcrop | **-** | - | - | - | - | - | | -- | -- | -- | -- | -- | -- |
| **Caneyville-Rock-outcrop complex** | CkE | **-** | - | - | - | 210 | 175 | | 50-150 | 100 | 21 | 4.08 | HE | N |
| | Caneyville | **sil** | 0.37 | 0.37 | 2 | 210 | 175 | 0.247 | -- | -- | -- | -- | -- | -- |
| | Rock outcrop | **-** | - | - | - | - | - | -- | -- | -- | -- | -- | -- | -- |

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| SOIL SERIES | Published Symbol | Surface Texture | K (Kw) | Kf | T | RUSLE R Factor | USLE R Factor | CRI. LS | SLOPE RANGE (feet) | RV slope (feet) | % slope used | LS factor | HEL Det. HE - highly erode N- not erodible P - potential | Hydric Det. H - hydric I - inclusions N - not hydric |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Carpenter Lenberg complex** | CmD | **-** | - | - | - | 210 | 175 | | 50-200 | 100 | 16 | 2.84 | HE | N |
| | Carpenter | **sil** | 0.32 | 0.32 | 4 | 210 | 175 | 0.571 | -- | -- | -- | -- | -- | -- |
| | Lenberg | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | -- | -- | -- | -- | -- | -- |
| **Carpenter Lenberg complex** | CmE | **-** | - | - | - | 210 | 175 | | 50-150 | 100 | 21 | 4.08 | HE | N |
| | Carpenter | **sil** | 0.32 | 0.32 | 4 | 210 | 175 | 0.571 | -- | -- | -- | -- | -- | -- |
| | Lenberg | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | -- | -- | -- | -- | -- | -- |
| **Chagrin** | Cn | **l** | 0.24 | 0.24 | 5 | 210 | 175 | 0.952 | 50-200 | 100 | 1 | 0.128 | N | N |
| **Clarkrange** | CoB | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-300 | 200 | 4 | 0.528 | HE | N |
| **Clarkrange** | CoC | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-250 | 150 | 10 | 1.68 | HE | N |
| **Clifty** | Cp | **gr-sil** | 0.17 | 0.32 | 5 | 210 | 175 | 1.345 | 100-300 | 200 | 1 | 0.15 | N | N |
| **Crider** | CrB | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 100-400 | 200 | 4 | 0.528 | N | N |
| **Crider** | CrC2 | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 100-300 | 150 | 9 | 1.45 | HE | N |
| **Dam** | Dam | **-** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Dumps** | Dt | **-** | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Dunning** | Du | **sicl** | 0.28 | 0.28 | 5 | 210 | 175 | 0.816 | 25-200 | 100 | 1 | 0.128 | N | H - hydric |
| **Elk** | EkB | **sil** | 0.43 | 0.43 | 5 | 210 | 175 | 0.532 | 100-300 | 200 | 4 | 0.528 | N | N |
| **Elk** | EkC | **sil** | 0.43 | 0.43 | 5 | 210 | 175 | 0.532 | 50-200 | 150 | 9 | 1.45 | HE | N |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Epley** | EpB | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-300 | 200 | 4 | 0.528 | HE | N |
| **Epley** | EpC | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-150 | 100 | 10 | 1.37 | HE | N |
| **Fredonia-Hagerstown Complex** | FaB | **-** | - | - | - | 210 | 175 | | 100-300 | 200 | 4 | 0.528 | HE | N |
| | Fredonia | **sil** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | - | - | - | - | - | - |
| | Hagerstown | **sil** | 0.32 | 0.32 | 3 | 210 | 175 | 0.429 | - | - | - | - | - | - |
| **Fredonia-Hagerstown Complex** | FaC2 | **-** | - | - | - | 210 | 175 | | 100-250 | 175 | 10 | 1.85 | HE | N |
| | Fredonia | **sil** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | - | - | - | - | - | - |
| | Hagerstown | **sil** | 0.32 | 0.32 | 3 | 210 | 175 | 0.429 | - | - | - | - | - | - |
| **Fredonia-Hagerstown Complex** | FaC3 | **-** | - | - | - | 210 | 175 | | 50-100 | 75 | 10 | 1.19 | HE | N |
| | Fredonia | **sil** | 0.32 | 0.32 | 1 | 210 | 175 | 0.143 | - | - | - | - | - | - |
| | Hagerstown | **sil** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | – | – | – | – | – | – |
| **Frondorf** | FdC2 | **sil** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | 100-250 | 175 | 10 | 1.85 | HE | N |
| **Frondorf** | FdD2 | **sil** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | 100-200 | 150 | 16 | 3.48 | HE | N |
| **Frondorf** | FoD3 | **sicl** | 0.32 | 0.32 | 1 | 210 | 175 | 0.143 | 50-100 | 75 | 16 | 2.46 | HE | N |
| **Frondorf-Weikert complex** | FwF | | - | - | - | 210 | 175 | | 50-200 | 125 | 40 | 8.28 | HE | N |
| | Frondorf | **sil** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | – | – | – | – | – | – |
| | Weikert | **grv-sil** | 0.17 | 0.37 | 2 | 210 | 175 | 0.538 | – | – | – | – | – | – |
| **Gilpin** | GnB2 | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 50-150 | 100 | 5 | 0.536 | HE | N |
| **Gilpin** | GnC2 | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 100-250 | 175 | 10 | 1.85 | HE | N |
| **Gilpin** | GnC3 | **l** | 0.28 | 0.28 | 1 | 210 | 175 | 0.163 | 50-150 | 100 | 10 | 1.37 | HE | N |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Gilpin** | GnD2 | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 100-200 | 150 | 16 | 3.48 | HE | N |
| **Gilpin** | GnD3 | **l** | 0.28 | 0.28 | 1 | 210 | 175 | 0.163 | 100-200 | 150 | 16 | 3.48 | HE | N |
| **Grigsby** | Gr | **fsl** | 0.2 | 0.2 | 5 | 210 | 175 | 1.143 | 25-200 | 100 | 1 | 0.128 | N | N |
| **Jefferson-Lily-Rock-outcrop complex** | JfD | | - | - | - | 210 | 175 | | 50-150 | 100 | 16 | 2.84 | HE | N |
| | Jefferson | **l** | 0.28 | 0.28 | 5 | 210 | 175 | 0.816 | - | - | - | - | - | - |
| | Lily | **l** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | - | - | - | - | - | - |
| | Rock outcrop | **-** | - | - | - | - | - | | - | - | - | - | - | - |
| **Jefferson-Lily-Rock-outcrop complex** | JfE | | - | - | - | 210 | 175 | | 50-150 | 100 | 25 | 5.34 | HE | N |
| | Jefferson | **l** | 0.28 | 0.28 | 5 | 210 | 175 | 0.816 | - | - | - | - | - | - |
| | Lily | **l** | 0.32 | 0.32 | 2 | 210 | 175 | 0.286 | - | - | - | - | - | - |
| | Rock outcrop | **-** | - | - | - | - | - | | - | - | - | - | - | - |
| **Johnsburg** | Jo | **sil** | 0.43 | 0.43 | 4 | 210 | 175 | 0.425 | 25-200 | 100 | 2 | 0.201 | N | I - inclusions |
| **Karnak** | Kb | **sicl** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-150 | 100 | 2 | 0.201 | N | H - hydric |
| **Karnak** | Ks | **sic** | 0.24 | 0.24 | 5 | 210 | 175 | 0.952 | 25-500 | 200 | 0.5 | 0.11 | N | H - hydric |
| **Latham** | LaC2 | **sil** | 0.37 | 0.37 | 3 | 210 | 175 | 0.371 | 100-250 | 175 | 10 | 1.85 | HE | N |
| **Latham** | LaD2 | **sil** | 0.37 | 0.37 | 3 | 210 | 175 | 0.371 | 50-200 | 125 | 16 | 3.16 | HE | N |
| **Lawrence** | Le | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-150 | 100 | 2 | 0.219 | N | I - inclusions |
| **Lenberg** | LnC2 | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | 100-250 | 175 | 10 | 1.85 | HE | N |
| **Lenberg** | LnD2 | **sil** | 0.43 | 0.43 | 3 | 210 | 175 | 0.319 | 50-200 | 125 | 16 | 3.16 | HE | N |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lily** | LyB | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 100-250 | 175 | 4 | 0.5 | HE | N |
| **Lily** | LyC2 | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Lily** | LyD2 | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | 50-150 | 100 | 16 | 2.84 | HE | N |
| **Melvin** | Me | **sil** | 0.43 | 0.43 | 5 | 210 | 175 | 0.532 | 50-200 | 125 | 1 | 0.134 | N | H - hydric |
| **Mullins** | Mu | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-200 | 125 | 2 | 0.219 | N | H - hydric |
| **Newark** | Ne | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-200 | 125 | 1 | 0.134 | N | I - inclusions |
| **Nolin** | No | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-300 | 150 | 1 | 0.128 | N | I - inclusions |
| **Otwell** | OtC | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Otwell** | OwB | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-250 | 175 | 4 | 0.50 | HE | N |
| **Pembroke** | PeB | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 200-400 | 300 | 4 | 0.621 | HE | N |
| **Pembroke** | PeC2 | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 100-250 | 175 | 10 | 1.85 | HE | N |
| **Pits,quarries, asphalt** | Ps | **-** | - | - | - | - | - | - | - | - | - | - | - | - |
| **Pits,quarries, limestone** | Pt | **-** | - | - | - | - | - | - | - | - | - | - | - | - |
| **Riney** | ReB2 | **sil** | 0.32 | 0.32 | 5 | 210 | 175 | 0.714 | 100-200 | 150 | 5 | 0.656 | N | N |
| **Riney** | ReC2 | **sil** | 0.32 | 0.32 | 5 | 210 | 175 | 0.714 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Riney** | ReD2 | **sil** | 0.32 | 0.32 | 5 | 210 | 175 | 0.714 | 50-150 | 100 | 16 | 2.84 | HE | N |
| **Rosine** | RoB | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 100-250 | 175 | 4 | 0.50 | N | N |
| **Rosine** | RoC2 | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-200 | 150 | 9 | 1.45 | HE | N |
| **Rosine** | RoD2 | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-200 | 150 | 16 | 3.48 | HE | N |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rosine** | RsC3 | **sicl** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-250 | 150 | 10 | 1.68 | HE | N |
| **Rosine** | RsD3 | **sicl** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-200 | 150 | 16 | 3.48 | HE | N |
| **Sadler** | SaB | **sil** | 0.43 | 0.43 | 4 | 210 | 175 | 0.425 | 100-350 | 250 | 4 | 0.575 | HE | N |
| **Sciotoville** | ScB | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 150-250 | 200 | 4 | 0.528 | HE | N |
| **Sciotoville** | ScC2 | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 100-200 | 150 | 10 | 1.68 | HE | N |
| **Shelocta-Latham-Gilpin complex** | SgD2 | **-** | – | – | - | 210 | 175 | | 50-200 | 150 | 16 | 3.48 | HE | N |
| | Shelocta | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | – | – | – | – | – | – |
| | Latham | **sil** | 0.37 | 0.37 | 3 | 210 | 175 | 0.371 | – | – | – | – | – | – |
| | Gilpin | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | – | – | – | – | – | – |
| **Shelocta-Latham-Gilpin complex** | SgD3 | **-** | – | – | - | 210 | 175 | | 50-200 | 125 | 16 | 3.16 | HE | N |
| | Shelocta | **sil** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | – | – | – | – | – | – |
| | Latham | **sil** | 0.43 | 0.43 | 2 | 210 | 175 | 0.213 | – | – | – | – | – | – |
| | Gilpin | **l** | 0.28 | 0.28 | 1 | 210 | 175 | 0.163 | – | – | – | – | – | – |
| **Shelocta-Latham-Gilpin complex** | SgE | **-** | – | – | - | 210 | 175 | | 50-200 | 125 | 25 | 5.40 | HE | N |
| | Shelocta | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-200 | 125 | 25 | 5.40 | HE | N |
| | Latham | **sil** | 0.37 | 0.37 | 3 | 210 | 175 | 0.371 | – | – | – | – | – | – |
| | Gilpin | **l** | 0.28 | 0.28 | 2 | 210 | 175 | 0.327 | – | – | – | – | – | – |
| **Water** | W | **-** | – | – | – | – | – | | – | – | – | – | – | – |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Wallen-Bledsoe-Donahue complex** | WbE | **-** | – | – | - | 210 | 175 | | 50-150 | 100 | 25 | 5.34 | HE | N |
| | Wallen | **gr-l** | 0.24 | 0.32 | 2 | 210 | 175 | 0.381 | – | – | – | – | – | – |
| | Bledsoe | **l** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | – | – | – | – | – | – |
| | Donahue | **l** | 0.43 | 0.43 | 2 | 210 | 175 | 0.213 | – | – | – | – | – | – |
| **Wallen-Bledsoe-Donahue complex** | WbF | **-** | – | – | - | 210 | 175 | | 50-150 | 100 | 40 | 7.14 | HE | N |
| | Wallen | **gr-l** | 0.24 | 0.32 | 2 | 210 | 175 | 0.381 | – | – | – | – | – | – |
| | Bledsoe | **l** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | – | – | – | – | – | – |
| | Donahue | **l** | 0.43 | 0.43 | 2 | 210 | 175 | 0.213 | – | – | – | – | – | – |
| **Wellston** | WeB | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 100-200 | 175 | 4 | 0.50 | N | N |
| **Wellston** | WeC2 | **sil** | 0.37 | 0.37 | 5 | 210 | 175 | 0.618 | 50-200 | 150 | 9 | 1.45 | HE | N |
| **Wellston** | WeD | **sil** | 0.37 | 0.37 | 3 | 210 | 175 | 0.371 | 50-150 | 100 | 16 | 2.84 | HE | N |
| **Wellston** | WsC3 | **sicl** | 0.37 | 0.37 | 4 | 210 | 175 | 0.494 | 50-200 | 125 | 10 | 1.55 | HE | N |
| **Zanesville** | ZaB | **sil** | 0.43 | 0.43 | 4 | 210 | 175 | 0.425 | 100-300 | 200 | 4 | 0.528 | HE | N |
| **Zanesville** | ZaC2 | **sil** | 0.43 | 0.43 | 4 | 210 | 175 | 0.425 | 100-250 | 200 | 10 | 1.94 | HE | N |
| **Zanesville** | ZnC3 | **sicl** | 0.43 | 0.43 | 2 | 210 | 175 | 0.213 | 50-300 | 200 | 10 | 1.94 | HE | N |