

Jefferson County, Kansas: Published  
Field Office Thunderbook: Soils Properties for Conservation Planning

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "K", "Kf", "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer)

| Map symbol<br>and soil name    | Percent | Irr<br>Cap<br>Class | Nonirr<br>Cap<br>Class | Prime<br>Farmland                  | Hydro-<br>logic<br>Group | Range<br>site<br>name      | Windbreak<br>suitability<br>group | Erosion factors |     |   | Wind<br>erodi-<br>bility<br>group | Wind<br>erodi-<br>bility<br>index |
|--------------------------------|---------|---------------------|------------------------|------------------------------------|--------------------------|----------------------------|-----------------------------------|-----------------|-----|---|-----------------------------------|-----------------------------------|
|                                |         |                     |                        |                                    |                          |                            |                                   | K               | Kf  | T |                                   |                                   |
| 005SH:SHELBY----               | 85      | N/A                 | 3e                     | Not prime<br>farmland              | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| 005SM:SHELBY----               | 88      | N/A                 | 4e                     | Not prime<br>farmland              | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .32             | .32 | 5 | 6                                 | 48                                |
| 005VS:VINLAND---               | 85      | N/A                 | 6e                     | Not prime<br>farmland              | D                        | Loamy Upland<br>(pe30-37)  | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| 013WN:WYMORE----               | 82      | N/A                 | 4e                     | Not prime<br>farmland              | D                        | Loamy Lowland<br>(pe30-37) | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| 045VM:VINLAND---               | 40      | N/A                 | 6e                     | Not prime<br>farmland              | D                        | Loamy Upland<br>(pe35-42)  | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| 045VM:MARTIN----               | 25      | N/A                 | 4e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe35-42)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| 085MC:MARTIN----               | 48      | N/A                 | 4e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| 085MC:VINLAND---               | 40      | N/A                 | N/A                    | Not prime<br>farmland              | D                        | Loamy Upland<br>(pe30-37)  | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| 085WB:WYMORE----               | 85      | 2e-                 | 2e                     | All areas<br>are prime<br>farmland | D                        | Clay Upland<br>(pe30-37)   | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| 177SM:SHELBY----               | 88      | N/A                 | 3e                     | Not prime<br>farmland              | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| 601GT:GRUNDY----               | 90      | N/A                 | 2e                     | All areas<br>are prime<br>farmland | C                        | Clay Upland<br>(pe30-37)   | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| 601SH:SHELBY----               | 80      | N/A                 | 3e                     | All areas<br>are prime<br>farmland | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| 601SM:SHELBY----               | 90      | N/A                 | 4e                     | Not prime<br>farmland              | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| AED:ARENTS,<br>EARTHEN DAM---- | 100     | N/A                 | 8                      | Not prime<br>farmland              |                          | Unspecified                |                                   | ---             | --- | - | ---                               | ---                               |
| Be:BISMARCKGROVE               | 60      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 8                                 | .32             | .32 | 5 | 7                                 | 38                                |
| Be:KIMO-----                   | 20      | N/A                 | 2w                     | Not prime<br>farmland              | C                        | Clay Lowland<br>(pe30-37)  | 4                                 | .37             | .37 | 5 | 4                                 | 86                                |
| Bp:BELVUE-----                 | 75      | 2w-                 | 6e                     | All areas<br>are prime<br>farmland | B                        | Unspecified                | 5                                 | .32             | .32 | 5 | 4L                                | 86                                |
| Bx:BOURBONAIS---               | 60      | N/A                 | 2w                     | All areas<br>are prime<br>farmland | C                        | Clay Lowland<br>(pe30-37)  | 4                                 | .37             | .37 | 5 | 4                                 | 86                                |
| Bx:BISMARCKGROVE               | 20      | N/A                 | 2w                     | All areas<br>are prime<br>farmland | B                        | Loamy Lowland<br>(pe30-37) | 8                                 | .32             | .32 | 5 | 7                                 | 38                                |

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| Map symbol<br>and soil name | Percent | Irr<br>Cap<br>Class | Nonirr<br>Cap<br>Class | Prime<br>Farmland                  | Hydro-<br>logic<br>Group | Range<br>site<br>name      | Windbreak<br>suitability<br>group | Erosion factors |     |   | Wind<br>erodi-<br>bility<br>group | Wind<br>erodi-<br>bility<br>index |
|-----------------------------|---------|---------------------|------------------------|------------------------------------|--------------------------|----------------------------|-----------------------------------|-----------------|-----|---|-----------------------------------|-----------------------------------|
|                             |         |                     |                        |                                    |                          |                            |                                   | K               | Kf  | T |                                   |                                   |
| By:BOURBONAIS---            | 45      | N/A                 | 2w                     | Not prime<br>farmland              | C                        | Clay Lowland<br>(pe30-37)  | 4                                 | .32             | .32 | 5 | 4                                 | 86                                |
| By:BISMARCKGROVE            | 30      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 8                                 | .32             | .32 | 5 | 7                                 | 38                                |
| Eb:EUDORA-----              | 55      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Unspecified                | 6                                 | .32             | .32 | 5 | 5                                 | 56                                |
| Eb:BISMARCKGROVE            | 25      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 8                                 | .32             | .32 | 5 | 7                                 | 38                                |
| Ec:EUDORA-----              | 65      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 6                                 | .32             | .32 | 5 | 5                                 | 56                                |
| Ec:BISMARCKGROVE            | 20      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 8                                 | .32             | .32 | 5 | 7                                 | 38                                |
| Ed:EUDORA-----              | 90      | N/A                 | 2w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 6                                 | .32             | .32 | 5 | 5                                 | 56                                |
| Eg:EUDORA-----              | 85      | 1-                  | 1                      | All areas<br>are prime<br>farmland | B                        | Loamy Lowland<br>(pe30-37) | 6                                 | .32             | .32 | 5 | 5                                 | 56                                |
| Fu:Fluvaquents--            | 95      | N/A                 | 5w                     | Not prime<br>farmland              | B                        | Unspecified                | 5                                 | ---             | --- | 5 | 4L                                | 86                                |
| GRP:PITS-----               | 100     | N/A                 | 8s                     | Not prime<br>farmland              | A                        | Unspecified                | 9                                 | .10             | .17 | 2 | 8                                 | 0                                 |
| Gb:GRUNDY-----              | 85      | N/A                 | 2w                     | All areas<br>are prime<br>farmland | C                        | Clay Upland<br>(pe30-37)   | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Gc:GRUNDY-----              | 85      | N/A                 | 3e                     | All areas<br>are prime<br>farmland | C                        | Clay Upland<br>(pe30-37)   | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Gy:GYMER-----               | 85      | N/A                 | 3e                     | All areas<br>are prime<br>farmland | C                        | Loamy Upland<br>(pe30-37)  | 7                                 | .32             | .32 | 5 | 6                                 | 48                                |
| Hc:HAIG-----                | 85      | N/A                 | 2w                     | Prime<br>farmland if<br>drained    | C/D                      | Clay Upland<br>(pe30-37)   | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Kb:KENNEBEC-----            | 85      | N/A                 | 2w                     | All areas<br>are prime<br>farmland | B                        | Loamy Lowland<br>(pe30-37) | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| Kc:KENNEBEC-----            | 85      | N/A                 | 5w                     | Not prime<br>farmland              | B                        | Loamy Lowland<br>(pe30-37) | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| Ki:KIMO-----                | 85      | N/A                 | 2w                     | Not prime<br>farmland              | C                        | Unspecified                | 4                                 | .37             | .37 | 5 | 4                                 | 86                                |
| Km:KIMO-----                | 90      | N/A                 | 2w                     | Not prime<br>farmland              | C                        | Clay Lowland<br>(pe30-37)  | 4                                 | .37             | .37 | 5 | 4                                 | 86                                |
| Kv:KONAWA-----              | 91      | N/A                 | 4e                     | Not prime<br>farmland              | B                        | Savannah (pe30-<br>37)     | 3                                 | .24             | .24 | 5 | 3                                 | 86                                |

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| Map symbol<br>and soil name         | Percent | Irr<br>Cap<br>Class | Nonirr<br>Cap<br>Class | Prime<br>Farmland                  | Hydro-<br>logic<br>Group | Range<br>site<br>name      | Windbreak<br>suitability<br>group | Erosion factors |     |   | Wind<br>erodi-<br>bility<br>group | Wind<br>erodi-<br>bility<br>index |
|-------------------------------------|---------|---------------------|------------------------|------------------------------------|--------------------------|----------------------------|-----------------------------------|-----------------|-----|---|-----------------------------------|-----------------------------------|
|                                     |         |                     |                        |                                    |                          |                            |                                   | K               | Kf  | T |                                   |                                   |
| M-<br>W:MISCELLANEOUS<br>WATER----- | 100     | N/A                 | N/A                    | Not prime<br>farmland              |                          | Unspecified                |                                   | ---             | --- | - | ---                               | ---                               |
| MR:MORRILL-----                     | 90      | N/A                 | 3e                     | All areas<br>are prime<br>farmland | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| Mb:MARTIN-----                      | 90      | N/A                 | 2e                     | All areas<br>are prime<br>farmland | C                        | Loamy Upland<br>(pe35-42)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Mc:MARTIN-----                      | 85      | N/A                 | 3e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Mh:MARTIN-----                      | 85      | N/A                 | 4e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Mo:MARTIN-----                      | 40      | N/A                 | 3e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Mo:OSKA-----                        | 30      | N/A                 | 3e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 2 | 7                                 | 38                                |
| Mu:MUSCOTAH-----                    | 85      | 2w-                 | 2w                     | Not prime<br>farmland              | D                        | Unspecified                | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Mv:MORRILL-----                     | 90      | N/A                 | 3e                     | All areas<br>are prime<br>farmland | B                        | Loamy Upland<br>(pe30-37)  | 7                                 | .32             | .32 | 5 | 6                                 | 48                                |
| Oc:OSKA-----                        | 90      | N/A                 | 3e                     | Not prime<br>farmland              | C                        | Loamy Upland<br>(pe30-37)  | 8                                 | .37             | .37 | 2 | 7                                 | 38                                |
| PE:PAWNEE-----                      | 90      | N/A                 | 3e                     | Not prime<br>farmland              | D                        | Clay Upland<br>(pe30-37)   | 7                                 | .37             | .37 | 5 | 6                                 | 48                                |
| Pb:PAWNEE-----                      | 90      | N/A                 | 2e                     | All areas<br>are prime<br>farmland | D                        | Clay Upland<br>(pe30-37)   | 7                                 | .37             | .37 | 5 | 6                                 | 48                                |
| Pc:PAWNEE-----                      | 85      | N/A                 | 3e                     | Not prime<br>farmland              | D                        | Clay Upland<br>(pe30-37)   | 7                                 | .37             | .37 | 5 | 6                                 | 48                                |
| Ph:PAWNEE-----                      | 85      | N/A                 | 4e                     | Not prime<br>farmland              | D                        | Clay Upland<br>(pe30-37)   | 4                                 | .37             | .37 | 5 | 4                                 | 86                                |
| Pt:Pits,<br>quarries-----           | 100     | N/A                 | N/A                    | Not prime<br>farmland              |                          | Unspecified                |                                   | ---             | --- | - | ---                               | 0                                 |
| QUA:QUARRIES----                    | 100     | N/A                 | N/A                    | Not prime<br>farmland              |                          | Unspecified                |                                   | ---             | --- | - | ---                               | 0                                 |
| Re:READING-----                     | 85      | N/A                 | 2w                     | All areas<br>are prime<br>farmland | B                        | Unspecified                | 7                                 | .32             | .32 | 5 | 6                                 | 48                                |
| Rs:ROSSVILLE----                    | 85      | N/A                 | 1                      | All areas<br>are prime<br>farmland | B                        | Loamy Lowland<br>(pe30-37) | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| Sa:STONEHOUSE---                    | 40      | 3s-                 | 4s                     | Not prime<br>farmland              | A                        | Unspecified                | 2                                 | .17             | .17 | 5 | 2                                 | 134                               |

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| Map symbol<br>and soil name | Percent | Irr<br>Cap<br>Class | Nonirr<br>Cap<br>Class | Prime<br>Farmland               | Hydro-<br>logic<br>Group | Range<br>site<br>name     | Windbreak<br>suitability<br>group | Erosion factors |     |   | Wind<br>erodi-<br>bility<br>group | Wind<br>erodi-<br>bility<br>index |
|-----------------------------|---------|---------------------|------------------------|---------------------------------|--------------------------|---------------------------|-----------------------------------|-----------------|-----|---|-----------------------------------|-----------------------------------|
|                             |         |                     |                        |                                 |                          |                           |                                   | K               | Kf  | T |                                   |                                   |
| Sa:EUDORA-----              | 25      | N/A                 | 1                      | Not prime<br>farmland           | B                        | Unspecified               | 6                                 | .32             | .32 | 5 | 5                                 | 56                                |
| Sc:SHELBY-----              | 55      | N/A                 | 3e                     | Not prime<br>farmland           | B                        | Loamy Upland<br>(pe30-37) | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| Sc:PAWNEE-----              | 30      | N/A                 | 3e                     | Not prime<br>farmland           | D                        | Clay Upland<br>(pe30-37)  | 7                                 | .37             | .37 | 5 | 6                                 | 48                                |
| So:SHELBY-----              | 65      | N/A                 | 4e                     | Not prime<br>farmland           | B                        | Loamy Upland<br>(pe30-37) | 7                                 | .28             | .28 | 5 | 6                                 | 48                                |
| So:PAWNEE-----              | 25      | N/A                 | 4e                     | Not prime<br>farmland           | D                        | Clay Upland<br>(pe30-37)  | 7                                 | .37             | .37 | 5 | 6                                 | 48                                |
| Ss:SIBLEYVILLE--            | 60      | N/A                 | 4e                     | Not prime<br>farmland           | B                        | Loamy Upland<br>(pe35-42) | 7                                 | .28             | .28 | 3 | 6                                 | 48                                |
| Sv:SIBLEYVILLE--            | 50      | N/A                 | 6e                     | Not prime<br>farmland           | B                        | Loamy Upland<br>(pe30-37) | 7                                 | .32             | .32 | 3 | 6                                 | 48                                |
| Sw:SOGN-----                | 55      | N/A                 | 7s                     |                                 | D                        | Shallow Limy<br>(pe30-37) | 5                                 | .32             | .32 | 1 | 4L                                | 86                                |
| Sw:VINLAND-----             | 30      | N/A                 | 6s                     |                                 | D                        | Loamy Upland<br>(pe30-37) | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| Vc:VINLAND-----             | 50      | N/A                 | 6e                     | Not prime<br>farmland           | D                        | Loamy Upland<br>(pe30-37) | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| Vo:VINLAND-----             | 55      | N/A                 | 6e                     | Not prime<br>farmland           | D                        | Loamy Upland<br>(pe30-37) | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| Vx:ROCK OUTCROP--           | 60      | N/A                 | 8                      | Not prime<br>farmland           |                          | Unspecified               |                                   | ---             | --- | - | ---                               | 0                                 |
| Vx:VINLAND-----             | 26      | N/A                 | 6e                     | Not prime<br>farmland           | D                        | Loamy Upland<br>(pe35-42) | 8                                 | .32             | .32 | 2 | 7                                 | 38                                |
| W:WATER-----                | 100     | N/A                 | N/A                    |                                 |                          | Unspecified               |                                   | ---             | --- | - | ---                               | ---                               |
| Wc:WABASH-----              | 94      | N/A                 | 3w                     | Prime<br>farmland if<br>drained | D                        | Clay Lowland<br>(pe30-37) | 8                                 | .37             | .37 | 5 | 7                                 | 38                                |
| Wh:WABASH-----              | 85      | N/A                 | 3w                     | Not prime<br>farmland           | D                        | Unspecified               | 4                                 | .28             | .28 | 5 | 4                                 | 86                                |

