

# WATER FEATURES Woodson County, Kansas

The Water Features table gives estimates of various water features. The estimates are used in land use planning that involves engineering considerations. Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

The months in the table indicate the portion of the year in which the feature is most likely to be a concern.

Water table refers to a saturated zone in the soil. The Water Features table indicates, by month, depth to the top (upper limit) and base (lower limit) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table. Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation. The Water Features table indicates surface water depth and the duration and frequency of ponding. Duration is expressed as very brief if less than 2 days, brief if 2 to 7 days, long if 7 to 30 days, and very long if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. None means that ponding is not probable; rare that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); occasional that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and frequent that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

Flooding, the temporary inundation of an area, is caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Duration and frequency are estimated. Duration is expressed as extremely brief if 0.1 hour to 4 hours, very brief if 4 hours to 2 days, brief if 2 to 7 days, long if 7 to 30 days, and very long if more than 30 days. Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent. None means that flooding is not probable; very rare that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); rare that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); occasional that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); frequent that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and very frequent that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and levels of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name   | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-------------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                               |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
| 001CA:<br>Catoosa-----        | B                        |           | Ft              | Ft             | Ft                        |          |           |            |            |
| 001CB:<br>Catoosa-----        | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Rock Outcrop-----             | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 001CC:<br>Collinsville-----   | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Bates-----                    | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 001ZB:<br>Zaar-----           | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 031EP:<br>Eram-----           | C                        | January   | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
|                               |                          | November  | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 1.0-2.0         | >6.0           | ---                       | ---      | ---       | ---        | None       |
| Apperson-----                 | C                        | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| 031ES:<br>Eram-----           | C                        | January   | 1.0-1.5         | 1.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 1.0-1.5         | 1.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 1.0-1.5         | 1.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 1.0-1.5         | 1.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 1.0-1.5         | 1.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          |           |                 |                |                           |          |           |            |            |
| Shidler-----                  | D                        | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| 073AT:<br>Aguents-----        | ---                      |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073CA:<br>Chase-----          | C                        | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          |           |                 |                |                           |          |           |            |            |
|                               |                          |           |                 |                |                           |          |           |            |            |
| 073CM:<br>Clime-----          | C                        | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | February  | 2.0-4.0         | >6.0           | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | March     | 2.0-4.0         | >6.0           | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | April     | 2.0-4.0         | >6.0           | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | May       | 2.0-4.0         | >6.0           | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| 073CS:<br>Clime-----          | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Sogn-----                     | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073DS:<br>Dennis, eroded----- | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073IC:                        | C                        | January   | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          |           |                 |                |                           |          |           |            |            |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name   | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-------------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                               |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
| Ivan-----                     | B                        |           | Ft              | Ft             | Ft                        |          |           |            |            |
|                               |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                               |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| 073IF:<br>Ivan-----           | B                        |           |                 |                |                           |          |           |            |            |
|                               |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                               |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                               |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| 073KE:<br>Kenoma, eroded----- | D                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073LA:<br>Labette-----        | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073LD:<br>Labette-----        | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Dwight-----                   | D                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073MA:<br>Martin-----         | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | ---             | ---            | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | ---             | ---            | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | None       |
| 073NZ:<br>Niotaze-----        | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          | January   | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | May       | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | June      | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | November  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
| Darnell-----                  | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 073RE:<br>Reading-----        | B                        |           |                 |                |                           |          |           |            |            |
|                               |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
|                               |                          | November  | ---             | ---            | ---                       | ---      | ---       | Very brief | Rare       |
| 073ST:<br>Steedman-----       | C                        |           |                 |                |                           |          |           |            |            |
|                               |                          | January   | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | February  | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | March     | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | April     | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | November  | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
|                               |                          | December  | 1.0-2.0         | 3.0-4.0        | ---                       | ---      | ---       | ---        | None       |
| 205BH:<br>Bates-----          | B                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Collinsville-----             | D                        |           |                 |                |                           |          |           |            |            |
|                               |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 205BO:<br>Bates-----          | B                        |           |                 |                |                           |          |           |            |            |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-----------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                             |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
| Collinsville-----           | D                        |           | Ft<br>---       | Ft<br>---      | Ft<br>---                 | ---      | ---       | ---        | ---        |
| 205DW:<br>Dennis-----       | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-2.3         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-2.3         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-2.3         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-2.3         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-2.3         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
| Dwight-----                 | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 205EB:<br>Eram-----         | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| 205EC:<br>Eram-----         | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| 205LA:<br>Lanton-----       | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | February  | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | March     | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | April     | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | May       | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | 1.0-2.0         | 2.0-3.5        | ---                       | ---      | ---       | ---        | Rare       |
| 205ND:<br>Niotaze-----      | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | May       | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | June      | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-2.0         | 1.0-2.3        | ---                       | ---      | ---       | ---        | None       |
| Darnell-----                | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 205SC:<br>Shidler-----      | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Catoosa-----                | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| 205SF:<br>Steedman-----     | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.0         | 0.7-1.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.0         | 0.7-1.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.0         | 0.7-1.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.0         | 0.7-1.3        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.0         | 0.7-1.3        | ---                       | ---      | ---       | ---        | None       |
| Bb:<br>Bates-----           | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Bc:<br>Bates-----           | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| BOP:<br>Borrow Pits-----    | ---                      |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Ca:<br>Clareson-----        | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Sogn-----                   | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Cd:                         |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-----------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                             |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
| Cleora-----                 | B                        |           | Ft              | Ft             | Ft                        |          |           |            |            |
|                             |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| Da:<br>Darnell-----         | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Niotaze-----                | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | May       | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | June      | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | None       |
| Dd:<br>Dennis-----          | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
| De:<br>Dennis-----          | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
| Df:<br>Dennis, eroded-----  | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
| Dg:<br>Dennis, eroded-----  | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-1.5         | 2.0-3.0        | ---                       | ---      | ---       | ---        | None       |
| Eram, eroded-----           | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| Dw:<br>Dwight-----          | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Eb:<br>Eram-----            | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| Ec:<br>Eram-----            | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
|                             |                          | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| Ex:                         |                          |           |                 |                |                           |          |           |            |            |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-----------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                             |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
|                             |                          |           | Ft              | Ft             | Ft                        |          |           |            |            |
| Eram-----                   | C                        | January   | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.5-2.5        | ---                       | ---      | ---       | ---        | None       |
| Collinsville-----           | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| GRP:<br>Gravel Pits-----    | ---                      |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Ha:<br>Hepler-----          | C                        | January   | 1.0-3.0         | >6.0           | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | February  | 1.0-3.0         | >6.0           | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | March     | 1.0-3.0         | >6.0           | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | November  | 1.0-3.0         | >6.0           | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | 1.0-3.0         | >6.0           | ---                       | ---      | ---       | ---        | Rare       |
| Ka:<br>Kenoma-----          | D                        | January   | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
| Ko:<br>Kenoma-----          | D                        | January   | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
| Olpe-----                   | C                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Kw:<br>Kenoma, eroded-----  | D                        | January   | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | November  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-1.5         | 1.0-1.5        | ---                       | ---      | ---       | ---        | None       |
| Woodson, eroded-----        | D                        | January   | 0.5-2.0         | 0.5-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-2.0         | 0.5-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-2.0         | 0.5-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-2.0         | 0.5-1.5        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-2.0         | 0.5-1.5        | ---                       | ---      | ---       | ---        | None       |
| La:<br>Leanna, drained----- | D                        | January   | 0.5-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | February  | 0.5-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | March     | 0.5-2.0         | 1.0-2.0        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | April     | 0.5-2.0         | 1.0-2.0        | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | 0.5-2.0         | 1.0-2.0        | ---                       | ---      | ---       | ---        | Rare       |
| Lb:<br>Lula-----            | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Ld:<br>Lula-----            | B                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Dwight-----                 | D                        |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Ma:                         |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |            | Flooding   |            |
|-----------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|------------|------------|------------|
|                             |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency  | Duration   | Frequency  |
| Mason-----                  | B                        |           | Ft              | Ft             | Ft                        |          |            |            |            |
|                             |                          | January   | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | February  | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | March     | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | April     | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
|                             |                          | December  | ---             | ---            | ---                       | ---      | ---        | ---        | Rare       |
| Ns:<br>Niotaze-----         | C                        |           |                 |                |                           |          |            |            |            |
|                             |                          | January   | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | February  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | March     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | April     | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | May       | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | June      | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | November  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | December  | 1.0-2.0         | 1.0-2.0        | ---                       | ---      | ---        | ---        | None       |
| Stephenville-----           | B                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Od:<br>Olpe-----            | C                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Og:<br>Osage-----           | D                        |           |                 |                |                           |          |            |            |            |
|                             |                          | January   | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | February  | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | March     | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | April     | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | May       | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | November  | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | December  | 0.0-1.0         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
| Os:<br>Osage-----           | D                        |           |                 |                |                           |          |            |            |            |
|                             |                          | January   | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | February  | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | March     | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | April     | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | May       | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---        | Very brief | Occasional |
|                             |                          | November  | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
|                             |                          | December  | 0.0-1.5         | >6.0           | ---                       | Long     | Occasional | ---        | Rare       |
| Rc:<br>Ringo-----           | D                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Rd:<br>Ringo-----           | D                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Sogn-----                   | D                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Sa:<br>Stephenville-----    | B                        |           |                 |                |                           |          |            |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---        | ---        | ---        |
| Sd:<br>Summit-----          | C                        |           |                 |                |                           |          |            |            |            |
|                             |                          | January   | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | February  | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | March     | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | April     | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | December  | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
| Se:<br>Summit-----          | C                        |           |                 |                |                           |          |            |            |            |
|                             |                          | January   | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | February  | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | March     | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | April     | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
|                             |                          | December  | 2.0-3.0         | 2.0-3.0        | ---                       | ---      | ---        | ---        | None       |
| Va:                         |                          |           |                 |                |                           |          |            |            |            |

(Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated.)

| Map symbol<br>and soil name | Hydro-<br>logic<br>group | Month     | Soil Saturation |                | Ponding                   |          |           | Flooding   |            |
|-----------------------------|--------------------------|-----------|-----------------|----------------|---------------------------|----------|-----------|------------|------------|
|                             |                          |           | Upper<br>limit  | Lower<br>limit | Surface<br>water<br>depth | Duration | Frequency | Duration   | Frequency  |
| Verdigris-----              | B                        |           | Ft              | Ft             | Ft                        |          |           |            |            |
|                             |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Occasional |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| Vc:<br>Verdigris-----       | B                        |           |                 |                |                           |          |           |            |            |
|                             |                          | January   | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | February  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | March     | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | April     | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | May       | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | June      | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | July      | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | August    | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | September | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | October   | ---             | ---            | ---                       | ---      | ---       | Very brief | Frequent   |
|                             |                          | November  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
|                             |                          | December  | ---             | ---            | ---                       | ---      | ---       | ---        | Rare       |
| W:<br>Water-----            | ---                      |           |                 |                |                           |          |           |            |            |
|                             |                          |           | ---             | ---            | ---                       | ---      | ---       | ---        | ---        |
| Wa:<br>Woodson-----         | D                        |           |                 |                |                           |          |           |            |            |
|                             |                          | January   | 0.5-2.0         | 0.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 0.5-2.0         | 0.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 0.5-2.0         | 0.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 0.5-2.0         | 0.5-2.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 0.5-2.0         | 0.5-2.0        | ---                       | ---      | ---       | ---        | None       |
| Za:<br>Zaar-----            | D                        |           |                 |                |                           |          |           |            |            |
|                             |                          | January   | 1.0-2.0         | 1.6-6.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | February  | 1.0-2.0         | 1.6-6.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | March     | 1.0-2.0         | 1.6-6.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | April     | 1.0-2.0         | 1.6-6.0        | ---                       | ---      | ---       | ---        | None       |
|                             |                          | December  | 1.0-2.0         | 1.6-6.0        | ---                       | ---      | ---       | ---        | None       |



