

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Sanitary Facilities - Part 1.

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Des Moines County, Iowa

| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|----------------------|---|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 41: Sparta----- | 100 | Very limited Filtering capacity | 1.00 | Very limited Seepage | 1.00 |
| 41B: Sparta----- | 100 | Very limited Filtering capacity | 1.00 | Very limited Seepage Slope | 1.00 0.67 |
| 51: Vesser----- | 95 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 1.00 0.50 |
| 54: Zook----- | 100 | Very limited Flooding Depth to saturated zone Restricted permeability | 1.00 1.00 0.99 | Very limited Flooding Depth to saturated zone | 1.00 1.00 |
| 56B: Cantril----- | 90 | Very limited Depth to saturated zone restricted permeability | 1.00 0.35 | Very limited Depth to saturated zone Seepage Slope | 1.00 0.50 0.33 |
| 58E: Douds----- | 100 | Very limited Slope Depth to saturated zone restricted permeability | 1.00 0.40 0.35 | Very limited Slope Seepage | 1.00 1.00 |

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Des Moines County, Iowa

| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|--------------|---|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 65D2: Lindley----- | 95 | Very limited Restricted permeability Slope | 1.00 0.63 | Very limited Slope | 1.00 |
| 65E: Lindley----- | 95 | Very limited Slope Restricted permeability | 1.00 1.00 | Very limited Slope | 1.00 |
| 65E2: Lindley----- | 95 | Very limited Slope Restricted permeability | 1.00 1.00 | Very limited Slope | 1.00 |
| 65F: Lindley----- | 95 | Very limited Slope Restricted permeability | 1.00 1.00 | Very limited Slope | 1.00 |
| 65G: Lindley----- | 95 | Very limited Slope Restricted permeability | 1.00 1.00 | Very limited Slope | 1.00 |
| 74: Rubio----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Seepage | 1.00 0.50 |
| 75: Givin----- | 95 | Very limited Depth to saturated zone Restricted permeability | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 0.01 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|--------------|---------------------------------------|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 76B: Ladoga----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Somewhat limited Seepage Slope | 0.50 0.33 |
| 76C: Ladoga----- | 100 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Very limited Slope Seepage | 1.00 0.50 |
| 76C2: Ladoga----- | 100 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Very limited Slope Seepage | 1.00 0.50 |
| 80B: Clinton----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Somewhat limited Seepage Slope | 0.50 0.33 |
| 80C: Clinton----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Very limited Slope Seepage | 1.00 0.50 |
| 80C2: Clinton----- | 100 | Very limited Restricted permeability Depth to saturated zone | 1.00 0.40 | Very limited Slope Seepage | 1.00 0.50 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|-------|--|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 80D: Clinton----- | 95 | Very limited Restricted permeability | 1.00 | Very limited Slope | 1.00 |
| | | Slope | 0.63 | Seepage | 0.50 |
| | | Depth to saturated zone | 0.40 | | |
| 80D2: Clinton----- | 95 | Very limited Restricted permeability | 1.00 | Very limited Slope | 1.00 |
| | | Slope | 0.63 | Seepage | 0.50 |
| | | Depth to saturated zone | 0.40 | | |
| 122: Sperry----- | 95 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Restricted permeability | 0.99 | Seepage | 0.50 |
| 130: Belinda----- | 95 | Very limited Restricted permeability | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Depth to saturated zone | 1.00 | Seepage | 0.50 |
| 131B: Pershing----- | 95 | Very limited Restricted permeability | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Depth to saturated zone | 1.00 | Slope | 0.33 |
| 131C2: Pershing----- | 95 | Very limited Restricted permeability | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Depth to saturated zone | 1.00 | Slope | 1.00 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|----------------------|---|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 132B: Weller----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 0.33 |
| 132C: Weller----- | 90 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 1.00 |
| 132C2: Weller----- | 90 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 1.00 |
| 133: Colo----- | 100 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 1.00 0.50 |
| 133B: Colo----- | 100 | Very limited Depth to saturated zone restricted permeability | 1.00 0.25 | Very limited Depth to saturated zone Seepage Slope | 1.00 0.50 0.33 |
| 135: Coland----- | 100 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 1.00 0.50 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---|--------------|---|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 158: Dorchester----- | 95 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone restricted permeability | 0.43 0.25 | | |
| 163B: Fayette----- | 95 | Somewhat limited restricted permeability | 0.35 | Somewhat limited Seepage | 0.50 |
| | | | | Slope | 0.33 |
| 163C: Fayette----- | 95 | Somewhat limited restricted permeability | 0.35 | Very limited Slope | 1.00 |
| | | | | Seepage | 0.50 |
| 163C2: Fayette----- | 100 | Somewhat limited restricted permeability | 0.35 | Very limited Slope | 1.00 |
| | | | | Seepage | 0.50 |
| 163D: Fayette----- | 100 | Somewhat limited Slope restricted permeability | 0.63 0.35 | Very limited Slope Seepage | 1.00 0.50 |
| 172: Wabash----- | 100 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone Restricted permeability | 1.00 1.00 | Depth to saturated zone | 1.00 |
| 173: Hoopeston----- | 90 | Very limited Depth to saturated zone Filtering capacity | 1.00 1.00 | Very limited Seepage Depth to saturated zone | 1.00 1.00 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---|--------------------------|---------------------------------------|------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 174: Bolan----- | 100 | Very limited Filtering capacity restricted permeability | 1.00 0.25 | Very limited Seepage | 1.00 |
| 174B: Bolan----- | 100 | Very limited Filtering capacity restricted permeability | 1.00 0.25 | Very limited Seepage Slope | 1.00 0.33 |
| 175: Dickinson----- | 100 | Very limited Filtering capacity | 1.00 | Very limited Seepage | 1.00 |
| 175B: Dickinson----- | 100 | Very limited Filtering capacity | 1.00 | Very limited Seepage Slope | 1.00 0.33 |
| 179D2: Gara----- | 95 | Very limited Restricted permeability Slope Depth to saturated zone | 1.00 0.63 0.43 | Very limited Slope | 1.00 |
| 179E: Gara----- | 95 | Very limited Slope Restricted permeability Depth to saturated zone | 1.00 1.00 0.43 | Very limited Slope | 1.00 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|----------------------|---|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 179E2: Gara----- | 95 | Very limited Slope Restricted permeability Depth to saturated zone | 1.00 1.00 0.43 | Very limited Slope | 1.00 |
| 180: Keomah----- | 95 | Very limited Depth to saturated zone Restricted permeability | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 0.01 |
| 208: Klum----- | 90 | Very limited Flooding Depth to saturated zone | 1.00 0.84 | Very limited Flooding Seepage Depth to saturated zone | 1.00 1.00 0.17 |
| 220: Nodaway----- | 90 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 0.71 0.50 |
| 222C: Clarinda----- | 95 | Very limited Depth to saturated zone Restricted permeability | 1.00 1.00 | Very limited Slope | 1.00 |
| 223C2: Rinda----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Slope | 1.00 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---|----------------------|--|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 223D2: Rinda----- | 95 | Very limited Restricted permeability Depth to saturated zone Slope | 1.00 1.00 0.63 | Very limited Slope | 1.00 |
| 263: Okaw----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone | 1.00 |
| 263B: Okaw----- | 95 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 0.33 |
| 279: Taintor----- | 90 | Very limited Depth to saturated zone Restricted permeability | 1.00 0.91 | Very limited Depth to saturated zone | 1.00 |
| 280: Mahaska----- | 90 | Very limited Depth to saturated zone restricted permeability | 1.00 0.25 | Very limited Depth to saturated zone Seepage Slope | 1.00 0.50 0.01 |
| 281B: Otley----- | 100 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.25 | Somewhat limited Seepage Slope | 0.50 0.33 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---|--------------------------|--|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 281C2: Otley----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.25 | Very limited Slope Seepage | 1.00 0.50 |
| 291: Atterberry----- | 90 | Very limited Depth to saturated zone restricted permeability | 1.00 0.35 | Very limited Depth to saturated zone Seepage Slope | 1.00 0.50 0.01 |
| 362: Haig----- | 95 | Very limited Depth to saturated zone Restricted permeability | 1.00 0.99 | Very limited Depth to saturated zone Seepage | 1.00 0.50 |
| 364B: Grundy----- | 95 | Very limited Depth to saturated zone Restricted permeability | 1.00 0.99 | Very limited Depth to saturated zone Slope | 1.00 0.09 |
| 424D: Lindley----- | 60 | Very limited Restricted permeability Slope | 1.00 0.63 | Very limited Slope | 1.00 |
| Keswick----- | 40 | Very limited Restricted permeability Depth to saturated zone Slope | 1.00 1.00 0.63 | Very limited Slope Depth to saturated zone | 1.00 1.00 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|----------------------|---|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 424D2: Lindley----- | 60 | Very limited Restricted permeability Slope | 1.00 0.63 | Very limited Slope | 1.00 |
| Keswick----- | 40 | Very limited Restricted permeability Depth to saturated zone Slope | 1.00 1.00 0.63 | Very limited Slope Depth to saturated zone | 1.00 1.00 |
| 425D: Keswick----- | 95 | Very limited Restricted permeability Depth to saturated zone Slope | 1.00 1.00 0.63 | Very limited Slope Depth to saturated zone | 1.00 1.00 |
| 425D2: Keswick----- | 95 | Very limited Restricted permeability Depth to saturated zone Slope | 1.00 1.00 0.63 | Very limited Slope Depth to saturated zone | 1.00 1.00 |
| 430: Ackmore----- | 90 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 1.00 0.50 |
| 453: Tuskeego----- | 100 | Very limited Restricted permeability Depth to saturated zone | 1.00 1.00 | Very limited Depth to saturated zone Slope | 1.00 0.01 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|-------|--|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 478G: Nordness----- | 50 | Very limited Depth to bedrock | 1.00 | Very limited Depth to hard bedrock | 1.00 |
| | | Slope | 1.00 | Slope Seepage | 1.00 1.00 |
| Rock Outcrop----- | 30 | Not rated | | Not rated | |
| 484: Lawson----- | 95 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | restricted permeability | 0.25 | Seepage | 0.50 |
| 499F: Nordness----- | 95 | Very limited Depth to bedrock | 1.00 | Very limited Depth to hard bedrock | 1.00 |
| | | Slope | 1.00 | Slope Seepage | 1.00 1.00 |
| 520: Coppock----- | 90 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | restricted permeability | 0.35 | Seepage | 0.50 |
| 570B: Nira----- | 95 | Somewhat limited Depth to saturated zone | 0.40 | Somewhat limited Seepage | 0.50 |
| | | restricted permeability | 0.25 | Slope | 0.33 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|----------------------|--|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 570C2: Nira----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.25 | Very limited Slope Seepage | 1.00 0.50 |
| 571B: Hedrick----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.35 | Somewhat limited Seepage Slope | 0.50 0.33 |
| 571C2: Hedrick----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.35 | Very limited Slope Seepage | 1.00 0.50 |
| 572B: Inton----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.35 | Somewhat limited Seepage Slope | 0.50 0.33 |
| 572C2: Inton----- | 95 | Somewhat limited Depth to saturated zone restricted permeability | 0.40 0.35 | Very limited Slope Seepage | 1.00 0.50 |
| 730B: Nodaway----- | 45 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage Slope | 1.00 0.71 0.50 0.09 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|--|-------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Cantril----- | 25 | Very limited | | Very limited | |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | restricted permeability | 0.35 | Seepage | 0.50 |
| | | | | Slope | 0.33 |
| Klum----- | 20 | Very limited | | Very limited | |
| | | Flooding | 1.00 | Flooding | 1.00 |
| | | Depth to saturated zone | 0.84 | Seepage | 1.00 |
| | | | | Depth to saturated zone | 0.17 |
| | | | | Slope | 0.09 |
| 779: Kalona----- | 100 | Very limited | | Very limited | |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | Restricted permeability | 0.91 | | |
| 793: Bertrand----- | 95 | Somewhat limited restricted permeability | 0.35 | Very limited Seepage | 1.00 |
| 793B: Bertrand----- | 95 | Somewhat limited restricted permeability | 0.35 | Very limited Seepage | 1.00 |
| | | | | Slope | 0.33 |
| 795D2: Ashgrove----- | 95 | Very limited | | Very limited | |
| | | Restricted permeability | 1.00 | Slope | 1.00 |
| | | Depth to saturated zone | 1.00 | | |
| | | Slope | 0.63 | | |

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|-----------------------------|---------------------------|--|-------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 834: Titus----- | 95 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | Restricted permeability | 0.99 | | |
| 880B: Clinton----- | 100 | Very limited Restricted permeability | 1.00 | Somewhat limited Seepage | 0.50 |
| | | Depth to saturated zone | 0.40 | Slope | 0.33 |
| 893D2: Gara----- | 70 | Very limited Restricted permeability | 1.00 | Very limited Slope | 1.00 |
| | | Slope | 0.63 | | |
| | | Depth to saturated zone | 0.43 | | |
| Rinda----- | 20 | Very limited Restricted permeability | 1.00 | Very limited Slope | 1.00 |
| | | Depth to saturated zone | 1.00 | | |
| | | Slope | 0.63 | | |
| 950: Niota Variant----- | 100 | Very limited Restricted permeability | 1.00 | Somewhat limited Slope | 0.01 |
| | | Depth to saturated zone | 1.00 | | |
| 950D: Niota Variant----- | 100 | Very limited Restricted permeability | 1.00 | Very limited Slope | 1.00 |
| | | Depth to saturated zone | 1.00 | | |
| | | Slope | 0.37 | | |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-------------------------------|---------------------------|--|-------|--|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 960: Shaffton----- | 90 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Filtering capacity | 1.00 | Seepage | 1.00 |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| 961: Ambraw----- | 95 | Very limited Flooding | 1.00 | Very limited Flooding | 1.00 |
| | | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| | | Restricted permeability | 0.91 | Seepage | 0.32 |
| 1273B: Olmitz Variant----- | 100 | Not limited restricted permeability | 0.25 | Somewhat limited Seepage | 0.50 |
| | | | | Slope | 0.33 |
| 1273C: Olmitz Variant----- | 100 | Not limited restricted permeability | 0.25 | Very limited Slope | 1.00 |
| | | Slope | 0.01 | Seepage | 0.50 |
| 1316: Fluvaquents----- | 95 | Not rated | | Not rated | |
| 1587: Dolbee----- | 95 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | restricted permeability | 0.25 | Seepage | 0.50 |

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| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---|----------------------|---|--------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 1826: Snider----- | 90 | Very limited Depth to saturated zone restricted permeability | 1.00 0.25 | Very limited Depth to saturated zone Seepage | 1.00 0.50 |
| 2208: Klum----- | 90 | Very limited Flooding Depth to saturated zone | 1.00 0.84 | Very limited Flooding Seepage Depth to saturated zone | 1.00 1.00 0.17 |
| 2226: Elrin----- | 95 | Very limited Filtering capacity Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Seepage Depth to saturated zone | 1.00 0.71 |
| 2484: Lawson----- | 90 | Very limited Flooding Depth to saturated zone restricted permeability | 1.00 1.00 0.25 | Very limited Flooding Depth to saturated zone Seepage | 1.00 1.00 0.50 |
| 4000: Urban Land----- | 100 | Not rated | | Not rated | |
| 5010: Pits----- | 100 | Not rated | | Not rated | |
| 5030: Pits----- | 100 | Not rated | | Not rated | |

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Des Moines County, Iowa

| Map symbol and soil name | Pct. of map unit | Septic tank absorption fields | | Sewage lagoons | |
|-----------------------------|---------------------------|---------------------------------------|-------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 5040: Orthents----- | 100 | Not rated | | Not rated | |
| 5080: Orthents----- | 100 | Not rated | | Not rated | |
| W: Water----- | 100 | Not rated | | Not rated | |