

Building Site Development

(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.)

Montgomery County, Iowa

| Map symbol and soil name | Pct. of map unit | Local roads and streets | | Shallow excavations | | Lawns and landscaping | |
|--------------------------|------------------|---------------------------------------|----------------------|---|-------|------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 8B: Judson----- | 95 | Very limited Frost action | 1.00 | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 8C: Judson----- | 100 | Very limited Frost action | 1.00 | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 9: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 9B: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 9C: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 9C2: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 9D: Marshall----- | 100 | Very limited Frost action | 1.00 | Somewhat limited Slope | 0.63 | Somewhat limited Slope | 0.63 |
| | | Low strength Slope Shrink-swell | 1.00 0.63 0.50 | | | | |

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|--------------------------|------------------|---|--------------------------------------|--|--------------|---|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 9D2: Marshall----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 0.63 0.50 | Somewhat limited Slope | 0.63 | Somewhat limited Slope | 0.63 |
| 11B: Ackmore----- | 40 | Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone | 1.00 1.00 1.00 0.50 0.19 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | Somewhat limited Flooding Depth to saturated zone | 0.60 0.19 |
| Colo----- | 35 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 0.50 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |
| 24D: Shelby----- | 90 | Very limited Low strength Slope Shrink-swell Frost action | 1.00 0.63 0.50 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | Somewhat limited Slope | 0.63 |
| 24D2: Shelby----- | 90 | Very limited Low strength Slope Shrink-swell Frost action | 1.00 0.63 0.50 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | Somewhat limited Slope | 0.63 |

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|-----------------------------|---------------------------|--|--------------------------------------|--|--------------|--|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 24E: Shelby----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 24E2: Shelby----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 24F: Shelby----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 33D2: Steinauer----- | 100 | Very limited Low strength Slope Shrink-swell Frost action | 1.00 0.63 0.50 0.50 | Somewhat limited Slope | 0.63 | Somewhat limited Slope | 0.63 |
| 33E2: Steinauer----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope | 1.00 | Very limited Slope | 1.00 |
| 43: Bremer----- | 95 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 1.00 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |

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|--------------------------|------------------|---|--------------------------------------|---|----------------------|--|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 54: Zook----- | 95 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 1.00 | Very limited Depth to saturated zone Flooding Too clayey | 1.00 0.60 0.01 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |
| 54+: Zook----- | 95 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 1.00 | Very limited Depth to saturated zone Flooding Too clayey | 1.00 0.60 0.01 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |
| 60D2: Malvern----- | 100 | Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone | 1.00 1.00 0.63 0.19 | Very limited Depth to saturated zone Slope Too clayey | 1.00 0.63 0.12 | Somewhat limited Slope Depth to saturated zone | 0.63 0.19 |
| 76B: Ladoga----- | 100 | Very limited Low strength Shrink-swell Frost action | 1.00 0.50 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| 76C: Ladoga----- | 100 | Very limited Low strength Shrink-swell Frost action | 1.00 0.50 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |

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|--------------------------|------------------|--|----------------------|--|--------------|------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 76C2: Ladoga----- | 100 | Very limited Low strength | 1.00 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | | Shrink-swell Frost action | 0.50 0.50 | | | | |
| 76D: Ladoga----- | 100 | Very limited Low strength Slope | 1.00 0.63 | Somewhat limited Slope Depth to saturated zone | 0.63 0.15 | Somewhat limited Slope | 0.63 |
| | | Shrink-swell Frost action | 0.50 0.50 | | | | |
| 76D2: Ladoga----- | 100 | Very limited Low strength Slope | 1.00 0.63 | Somewhat limited Slope Depth to saturated zone | 0.63 0.15 | Somewhat limited Slope | 0.63 |
| | | Shrink-swell Frost action | 0.50 0.50 | | | | |
| 88: Nevin----- | 95 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 0.95 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 93D2: Shelby----- | 55 | Very limited Low strength Slope | 1.00 0.63 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | Somewhat limited Slope | 0.63 |
| | | Shrink-swell Frost action | 0.50 0.50 | | | | |
| Adair----- | 35 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 1.00 | Somewhat limited Slope | 0.63 |
| | | Low strength | 1.00 | Slope | 0.63 | Depth to saturated zone | 0.19 |
| | | Shrink-swell Slope Depth to saturated zone | 1.00 0.63 0.19 | Too clayey | 0.41 | | |

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|-----------------------------|---------------------------|--|--------------------------------------|--|--------------|--|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 99C2: Exira----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Not limited | | Not limited | |
| 99D2: Exira----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 0.63 0.50 | Somewhat limited Slope | 0.63 | Somewhat limited Slope | 0.63 |
| 99D3: Exira----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 0.63 0.50 | Somewhat limited Slope | 0.63 | Somewhat limited Slope | 0.63 |
| 99E2: Exira----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 1.00 0.50 | Very limited Slope | 1.00 | Very limited Slope | 1.00 |
| 133: Colo----- | 90 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 0.50 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |
| 133+: Colo----- | 95 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 0.50 | Very limited Depth to saturated zone Flooding | 1.00 0.60 | Very limited Depth to saturated zone Flooding | 1.00 0.60 |

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|-----------------------------|---------------------------|--|--------------------------------------|--|----------------------|--|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 134: Zook----- | 100 | Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 1.00 1.00 | Very limited Depth to saturated zone Flooding Too clayey | 1.00 0.60 0.01 | Very limited Depth to saturated zone Too clayey Flooding | 1.00 1.00 0.60 |
| 175D: Dickinson----- | 100 | Somewhat limited Slope Frost action | 0.63 0.50 | Very limited cutbanks cave Slope | 0.90 0.63 | Somewhat limited Slope | 0.63 |
| 179D: Gara----- | 100 | Very limited Low strength Slope Shrink-swell Frost action | 1.00 0.63 0.50 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | Somewhat limited Slope | 0.63 |
| 179D2: Gara----- | 100 | Very limited Low strength Slope Shrink-swell Frost action | 1.00 0.63 0.50 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.16 | Somewhat limited Slope | 0.63 |
| 179E: Gara----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 179E2: Gara----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |

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|--------------------------|------------------|--|--------------------------------------|--|----------------------|--|--------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 179F: Gara----- | 100 | Very limited Slope Low strength Shrink-swell Frost action | 1.00 1.00 0.50 0.50 | Very limited Slope Depth to saturated zone | 1.00 0.16 | Very limited Slope | 1.00 |
| 192D2: Adair----- | 95 | Very limited Frost action Low strength Shrink-swell Slope Depth to saturated zone | 1.00 1.00 1.00 0.63 0.19 | Very limited Depth to saturated zone Slope Too clayey | 1.00 0.63 0.41 | Somewhat limited Slope Depth to saturated zone | 0.63 0.19 |
| 212: Kennebec----- | 95 | Very limited Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone Flooding | 0.61 0.60 | Somewhat limited Flooding | 0.60 |
| 212+: Kennebec----- | 95 | Very limited Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone Flooding | 0.61 0.60 | Somewhat limited Flooding | 0.60 |
| 220: Nodaway----- | 90 | Very limited Frost action Flooding Low strength Shrink-swell | 1.00 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone Flooding | 0.61 0.60 | Somewhat limited Flooding | 0.60 |

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| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 222C2: Clarinda----- | 95 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 1.00 | Somewhat limited Depth to saturated zone | 0.19 |
| | | Low strength Shrink-swell | 1.00 | Too clayey | 0.50 | | |
| | | Depth to saturated zone | 0.19 | | | | |
| 222D2: Clarinda----- | 100 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 1.00 | Somewhat limited Slope | 0.63 |
| | | Low strength | 1.00 | Slope | 0.63 | Depth to saturated zone | 0.19 |
| | | Shrink-swell Slope | 1.00 | Too clayey | 0.50 | | |
| | | Depth to saturated zone | 0.19 | | | | |
| 269: Humeston----- | 95 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Frost action | 1.00 | Flooding | 0.60 | Flooding | 0.60 |
| | | Flooding | 1.00 | | | | |
| | | Low strength | 1.00 | | | | |
| | | Shrink-swell | 1.00 | | | | |
| 273B: Olmitz----- | 100 | Very limited Low strength | 1.00 | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | Shrink-swell | 0.50 | | | | |
| | | Frost action | 0.50 | | | | |
| 273C: Olmitz----- | 100 | Very limited Low strength | 1.00 | Somewhat limited Depth to saturated zone | 0.16 | Not limited | |
| | | Shrink-swell | 0.50 | | | | |
| | | Frost action | 0.50 | | | | |

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| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 318F2: Clanton----- | 100 | Very limited Low strength Shrink-swell | 1.00 1.00 | Very limited Slope Depth to saturated zone Too clayey | 1.00 0.16 0.04 | Very limited Slope | 1.00 |
| 370B: Sharpsburg----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| 370C: Sharpsburg----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| 370C2: Sharpsburg----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| 370D: Sharpsburg----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 0.63 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.15 | Somewhat limited Slope | 0.63 |
| 370D2: Sharpsburg----- | 100 | Very limited Frost action Low strength Slope Shrink-swell | 1.00 1.00 0.63 0.50 | Somewhat limited Slope Depth to saturated zone | 0.63 0.15 | Somewhat limited Slope | 0.63 |

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|------------------------------|---------------------------|---------------------------------------|-------|--|-------|---------------------------------------|-------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 423D2: Bucknell----- | 100 | Very limited Low strength | 1.00 | Very limited Depth to saturated zone | 1.00 | Somewhat limited Slope | 0.63 |
| | | Shrink-swell | 1.00 | Slope | 0.63 | Depth to saturated zone | 0.19 |
| | | Slope | 0.63 | Too clayey | 0.08 | | |
| | | Frost action | 0.50 | | | | |
| | | Depth to saturated zone | 0.19 | | | | |
| 430: Ackmore----- | 95 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 1.00 | Somewhat limited Flooding | 0.60 |
| | | Flooding | 1.00 | Flooding | 0.60 | Depth to saturated zone | 0.19 |
| | | Low strength | 1.00 | | | | |
| | | Shrink-swell | 0.50 | | | | |
| | | Depth to saturated zone | 0.19 | | | | |
| 509: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength | 1.00 | | | | |
| | | Shrink-swell | 0.50 | | | | |
| 509B: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength | 1.00 | | | | |
| | | Shrink-swell | 0.50 | | | | |
| 509C2: Marshall----- | 100 | Very limited Frost action | 1.00 | Not limited | | Not limited | |
| | | Low strength | 1.00 | | | | |
| | | Shrink-swell | 0.50 | | | | |
| 517D2: Hesch Variant----- | 100 | Somewhat limited Slope | 0.63 | Very limited cutbanks cave | 0.90 | Somewhat limited Slope | 0.63 |
| | | Frost action | 0.50 | Slope | 0.63 | | |

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| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 517E: Hesch Variant----- | 100 | Very limited Slope Frost action | 1.00 0.50 | Very limited Slope cutbanks cave | 1.00 0.90 | Very limited Slope | 1.00 |
| 692D2: Mayberry----- | 100 | Very limited Frost action Low strength Shrink-swell Depth to saturated zone Slope | 1.00 1.00 1.00 0.19 0.16 | Very limited Depth to saturated zone Slope Too clayey | 1.00 0.16 0.12 | Somewhat limited Depth to saturated zone Slope | 0.19 0.16 |
| 751D2: Northboro----- | 100 | Very limited Frost action Low strength Shrink-swell Slope | 1.00 1.00 0.50 0.16 | Somewhat limited Slope Depth to saturated zone | 0.16 0.16 | Somewhat limited Slope | 0.16 |
| 822D2: Lamoni----- | 100 | Very limited Low strength Shrink-swell Slope Frost action Depth to saturated zone | 1.00 1.00 0.63 0.50 0.19 | Very limited Depth to saturated zone Slope Too clayey | 1.00 0.63 0.08 | Somewhat limited Slope Depth to saturated zone | 0.63 0.19 |
| 870: Sharpsburg----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| 870B: Sharpsburg----- | 100 | Very limited Frost action Low strength Shrink-swell | 1.00 1.00 0.50 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |

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| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 870C2: Sharpsburg----- | 100 | Very limited Frost action | 1.00 | Somewhat limited Depth to saturated zone | 0.15 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 1220: Nodaway----- | 90 | Very limited Frost action | 1.00 | Somewhat limited Flooding | 0.80 | Very limited Flooding | 1.00 |
| | | Flooding | 1.00 | Depth to saturated zone | 0.61 | | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 1233: Corley----- | 95 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 | Very limited Depth to saturated zone | 1.00 |
| | | Frost action | 1.00 | | | | |
| | | Low strength Shrink-swell | 1.00 1.00 | | | | |
| 1299: Minden----- | 95 | Very limited Frost action | 1.00 | Somewhat limited Depth to saturated zone | 0.61 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 1368: Macksburg----- | 95 | Very limited Frost action | 1.00 | Very limited Depth to saturated zone | 0.95 | Not limited | |
| | | Low strength Shrink-swell | 1.00 0.50 | | | | |
| 5010: Pits----- | 100 | Not rated | | Not rated | | Not rated | |

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| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| 5030: Pits----- | 100 | Not rated | | Not rated | | Not rated | |
| 5040: Orthents----- | 100 | Not rated | | Not rated | | Not rated | |
| W: Water----- | 100 | Not rated | | Not rated | | Not rated | |