Generalized Geologic Map for Land-Use Planning: Jackson County, Kentucky

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**Edward C. Hodges**

**Bart Davidson and Daniel J. Carey**

**Kentucky Geological Survey**

*Geological Survey of Kentucky: Kentucky Geological Survey, ser. 12, Digitally Vectorized Geologic Quadrangle Data*  
Sturgeon quadrangle, east-central Kentucky: U.S. Geological Survey Geologic Quadrangle Map

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#### References Cited

- Lambert (2005), Nelson (2001a, b), Nelson and others (2006a-c), McKee
- McKee Industrial Park

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#### What Can Urbanization Do to the Land? (From U.S. Department of Agriculture, Natural Resources Conservation Service, no date)

- Activity and topography, rocks, soil, vegetation, season, and slope
- Soil movement
- Seepage
- Liquefaction

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#### What Can the Forces That Cause Landslides?

- 1. Excessive Slopes
- 2. Changing the natural slope by creating a level area where none previously exists.
- 3. Increasing the area of volume by building terraces. The most common in eastern Kentucky are listed below:
- 4. **ARTHROPOD MORTALITY**
- 5. **ARTHROPOD MORTALITY**
- 6. **ARTHROPOD MORTALITY**
- 7. **ARTHROPOD MORTALITY**
- 8. **ARTHROPOD MORTALITY**
- 9. **ARTHROPOD MORTALITY**
- 10. **ARTHROPOD MORTALITY**

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#### What Can Some Ways to Prevent Landslides?

- 1. Professional survey or engineering
- 2. Professional survey or engineering
- 3. Professional survey or engineering
- 4. Professional survey or engineering
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- 6. Professional survey or engineering
- 7. Professional survey or engineering
- 8. Professional survey or engineering
- 9. Professional survey or engineering
- 10. Professional survey or engineering

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### Generalized Geologic Map

- **Geology of Kentucky**
- **Geological Survey**
- **Geological Survey**
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#### Land-Use Planning Table Excerpt

<table>
<thead>
<tr>
<th>Planning Guidance by Rock Unit Type</th>
<th>Chief Geologic Unit</th>
<th>Description</th>
<th>Potential Environmental Impacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater replenishment</td>
<td>Groundwater replenishment</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Rock excavation</td>
<td>Rock excavation</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Water wells</td>
<td>Water wells</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Utilities</td>
<td>Utilities</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Wet area</td>
<td>Wet area</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Gas well</td>
<td>Gas well</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td>Reservoir</td>
<td>Reservoir</td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
<tr>
<td><strong>Recreation</strong></td>
<td><strong>Recreation</strong></td>
<td>Moderate to severe</td>
<td>Moderate to severe</td>
</tr>
</tbody>
</table>

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### Acknowledgments

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- Sturgeon quadrangle, east-central Kentucky: U.S. Geological Survey Geologic Quadrangle Map

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### References

- Lambert (2005), Nelson (2001a, b), Nelson and others (2006a-c)
- McKee
- McKee Industrial Park

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### Additional Resources

- Kentucky Geological Survey Website
- Kentucky Geological Survey publications
- Kentucky Geological Survey maps
- Kentucky Geological Survey data

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**Note:** The information provided is a summary of the contents of the document and is not intended to be all-inclusive. For more detailed information, please refer to the original document.