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

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The Generalized Geologic Map for Land-Use Planning: Nicholas County, Kentucky, provides a visual representation of the geological features and their implications for land-use planning. The map is a valuable tool for understanding the geology of the area, which can influence various land uses such as agriculture, recreation, and infrastructure development.

Key Features:
- **Geological Setting:** The map identifies various geological units, including beds, strata, and soil types, which are crucial for understanding the landscape's evolution and current stability.
- **Land Use Adaptability:** The map highlights areas that are suitable for different land uses, considering the geological constraints.
- **Water Resources:** The map indicates water bodies and potential ground water sources, which are important for agriculture, forestry, and urban planning.
- **Natural Hazards:** It shows areas prone to natural hazards such as slope failure, landslides, and flood plains, guiding land-use decisions to minimize risk.

**Legend:**
- **Soils:** Different soil types are color-coded to indicate their fertility and suitability for various crops.
- **Hydrogeology:** Groundwater flow directions are depicted to assess potential sites for water supply and protection.
- **Slope Stability:** Zones are marked for different grades of slope stability to identify areas at risk of erosion or landslides.

**Acknowledgments:**
- The map was prepared with support from the Kentucky Geological Survey and the U.S. Department of Agriculture, Soil Conservation Service.

**Planning Guidance by Rock Unit Type:**
- The map includes a table listing the geological units, their characteristics, and recommended land uses, providing a comprehensive guide for planners.

**Sources:**
- Various state and federal agencies for data on water bodies, soils, and geological hazards.

**Contact Information:**
- For more information, contact the Kentucky Geological Survey at 859.257.3896 or 877.778.7827 (toll free).

This map is intended for educational and planning purposes and should not be used for legal, engineering, or construction activities without professional consultation.