Surficial Geology of Carroll County, Iowa

Introduction to the Surficial Geology of Carroll County, Iowa

The Surficial Geology Map of Carroll County, Iowa presents a comprehensive overview of the county's geological features, including soil types, bedrock formations, and surficial deposits. This map is essential for understanding the physical landscape and its implications for land use and development.

The map is based on a variety of data sources, including soil surveys, geophysical studies, and geological mapping. It highlights different soil and bedrock units, providing a detailed framework for interpreting the area's geologic history.

Key Features on the Map

1. **Soil Units**: The map identifies various soil units based on their composition, texture, and depth. These units are critical for agricultural planning and soil conservation.
2. **Drift Deposits**: Drift deposits, including loess, loam, and sand, are mapped to show the distribution of sedimentary materials that have accumulated over time.
3. **Bedrock Formations**: The map outlines the extent of bedrock formations, which are important for understanding the geological history and the potential for groundwater resources.
4. **Topography**: Contour lines indicate variations in elevation, providing insight into the landscape's physical characteristics.

Additional Information

The map also includes a detailed legend that explains the symbols and color codes used to represent different geological features. This helps users understand how each element is represented on the map.

References

4. Carroll County lies in west central Iowa and straddles the western margin of the Late Wisconsin ice sheet mantling Wisconsin Episode terraces.
5. The Dows Formation consists of upland glacial deposits and is generally 2.5 to 6 m (8 to 20 ft) thick. It overlies gray, calcareous, massive, dense loam diamicton (Dows Formation) and underlies yellowish to brown loam, silt loam, or sand mantling of the Bemis Moraine.

Disclaimer

The map is not intended for navigation or legal purposes. Users are advised to consult more detailed sources for specific land use decisions.