Introduction to the Bedrock Geologic Map of the Orchard 7.5’ Quadrangle, Floyd and Mitchell Counties, Iowa

The Orchard 7.5’ Quadrangle is located in Floyd and Mitchell counties, southern Iowa. It was mapped as a part of the Cooperative Geologic Mapping Program, funded by the United States Geological Survey (USGS) and managed by the Iowa Geological Survey (IGS). The bedrock geologic map of the Orchard 7.5’ Quadrangle, Floyd and Mitchell Counties, Iowa, is part of a series of maps that provide a detailed view of the bedrock geology of Iowa. The map shows the distribution and characteristics of various bedrock formations and geologic units, including their lithology, stratigraphy, and hydrogeologic potential.

The map covers an area of approximately 11,000 square kilometers and includes a legend, a stratigraphic column, and a reference list. The legend provides information on the symbols used to represent different geologic units, such as lithologies, structures, and hydrogeologic features. The stratigraphic column lists the formations and units present in the map area, along with their thickness and characteristics.

The map is useful for various applications, including environmental studies, groundwater assessment, and resource exploration. It provides a detailed view of the bedrock geology in the Orchard 7.5’ Quadrangle, which can be used to inform decisions related to development, land use planning, and resource management.

References:

This map was created by the Iowa Geological Survey, Robert D. Libra, State Geologist. The mapping was completed by the Cooperative Geologic Mapping Program, under USGS award OFM-16-1. Administrative support was provided by Megan Delaney, Teresa Gaffey, and Crystal Zabel. The map was produced by the Iowa Geological Survey, Iowa City, Iowa, with the help of various individuals and organizations.

The map can be accessed through the Iowa Geological Survey online portal or through various libraries and organizations that host geologic maps. It is available in PDF format for download, making it accessible to a wide audience.

For more information or to request a hardcopy of the map, please contact the Iowa Geological Survey at 515-281-5770 or visit their website at www.igsoi.org.