Introduction to the Bedrock Geology of the Fertile NE 7.5' Quadrangle

The Fertile NE 7.5' Quadrangle mostly within Tama County, Iowa, is located in the northern part of the Des Moines Lobe alluvial plain which was supplied primarily by glacial drift from Iowa, and the Iowa Fertile (alluvial) region, which was supplied primarily by drift from Minnesota. The Central Iowa Uplift lies to the north and the Des Moines Lobe is to the south. The maximum thickness is about 130 m (430 ft) in the northwestern portion of the quadrangle, with the maximum thickness decreasing to about 60 m (200 ft) in the southeastern portion. The maximum thickness along the northern border is about 150 m (500 ft). Elevations range from 183 m (600 ft) to 219 m (720 ft) along the northern border. The maximum thickness along the southern border is about 91 m (300 ft). Elevations range from 103 m (335 ft) to 137 m (450 ft) along the southern border. The maximum thickness along the western border is about 122 m (400 ft). Elevations range from 132 m (435 ft) to 167 m (550 ft) along the western border. The maximum thickness along the eastern border is about 127 m (420 ft). Elevations range from 108 m (355 ft) to 144 m (475 ft) along the eastern border. The maximum thickness along the northern border is about 150 m (500 ft). Elevations range from 183 m (600 ft) to 219 m (720 ft) along the northern border. The maximum thickness along the southern border is about 91 m (300 ft). Elevations range from 103 m (335 ft) to 137 m (450 ft) along the southern border. The maximum thickness along the western border is about 122 m (400 ft). Elevations range from 132 m (435 ft) to 167 m (550 ft) along the western border. The maximum thickness along the eastern border is about 127 m (420 ft). Elevations range from 108 m (355 ft) to 144 m (475 ft) along the eastern border.