

General section of the rocks and surface deposits near

Greenup, Cumberland County

1937

Recent deposits

Flood plain silts, soils, etc.

Pleistocene (glacial) system

Wisconsin series

Dune sand

Terrace gravels (outwash from the Shelbyville moraine)

Glacial till (of the Shelbyville moraine)

Sangamon series

Loess, gumbotil

Illinoian series

Glacial till (at surface south of the Shelbyville moraine)

(Great unconformity)

Pennsylvanian system (coal measures)

McLeansboro series

Merom sandstone

(Unconformity)

Woodbury cyclothem

Shale, thin impure limestone, coal, underclay, sandstone.

Greenup cyclothem

Limestone (Greenup), sandy shale, sandstone.

Newton cyclothem

Shale with ironstones, black shale, limestone, underclay, sandy shale and sandstone. (Lowest beds exposed near Greenup)

Principal stops are as follows:

- (1) Sand dunes, Illinoian drift, Embarrass River flood plain.
- (2) Bad soil erosion.
- (3) Terracing to control soil erosion.
- (4) Gravel terrace in outwash deposits of the Shelbyville moraine.
- (5) Fox Ridge State Park on the Shelbyville moraine (terminal moraine of the Wisconsin glacier), where it is crossed by the Embarrass River.
- (6) Lunch stop. No restroom facilities here.
- (7) Rest stop, Greenup.
- (8) Illinoian drift and weathering profile, on Greenup limestone (some fossil collecting).
- (9) Unconformable contact of the Merom sandstone on the Newton shale, 1/2 mile south of Woodbury.
- (10) Type exposure of the Woodbury cyclothem, good fossil collecting. Location is 1 1/4 miles southwest of Woodbury on U.S. 40 and 3/4 mile south of U.S. 40, in stream bank 1/4 mile west of road. Final stop of the trip.

Marked copies of the Toledo quadrangle map will be furnished to each car.

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