

EXPLANATION

Correlation of Rock Units

Intrusive

Stratified

Pzt

bs
ss
bg

Pzt

Toluca Quartz Monzonite

Gray to light gray, medium grained, even grained, muscovite-biotite quartz monzonite, locally garnetiferous. Usually has a weak to moderate gneissosity, most pronounced near contacts

bs

Biotite gneiss and mica schist

Interlayered biotite-quartz-feldspar gneiss and mica schist. Zones of predominantly schist or of gneiss may be as much as 120 m thick. Schist ranges from garnet-sillimanite-muscovite biotite schist to biotite-quartz-feldspar schist and biotite-feldspar-quartz schist. Unit represents a metamorphosed sequence of interbedded shale, siltstone, and sandstone

ss

Sillimanite schist

Purplish-weathering garnet-sillimanite-muscovite-biotite schist with a few beds of muscovitic and sillimanitic quartzite in the lower part. Locally contains pyrrhotite and disseminated graphite. Contains subordinate layers of biotite gneiss. Small lenses of pegmatite and granite are scattered throughout. Unit represents a clay-rich shale derived from a deeply-weathered terrain. Quartzite beds represent reworking of sand in a near-shore environment

bg

Biotite gneiss

Layered gray- to dark gray, biotite-quartz-feldspar gneiss, locally muscovitic and garnetiferous. In places contains thin, layers of gray to greenish gray silicious amphibole-bearing layers. Contains subordinate mica schist and scattered small masses of pegmatite and granite. Unit represents metamorphosed silty-sandstones and feldspathic sandstone and siltstone with minor shale and slightly calcareous beds

Contact

20

Foliation, showing direction and inclination of foliation.

Foliation is approximately parallel to compositional layering where it can be discerned. An east to southeast-dipping slip-cleavage is widespread in the region but was not measured in the area of the park

Mineral Resources

No mines or prospects have been identified to date in the area of the State Park

Source of data

The geology was mapped in reconnaissance by J. B. Hadley in 1973. The map was compiled by R. Goldsmith from Hadley's field sheets and notes