

COLUMNAR SECTIONS.

GENERALIZED SECTION NORTHWEST OF BAYS MOUNTAIN.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY.
SILURIAN	Bays sandstone.	Sb		300—500		
	Sevier shale.	Ssv		1000—1200	Light-blue sandy and calcareous shales, with beds of limestone and argillaceous marble.	Open, flat valley.
	Tellico sandstone.	St		250—300	Bluish-gray calcareous sandstone.	High rounded knobs and ridges.
	Chickamauga limestone.	Sc		200—400	Variegated marble, red, brown, gray, and white.	Round hills, and slopes of Tellico sandstone knobs.
	Knox dolomite.	Sk		500—700	Blue limestones and gray argillaceous limestones.	Level and rolling valleys.
CAMBRIAN				8500	Magnesian limestone, white, gray, light and dark blue, with nodules of chert.	Broad ridges and irregular rounded hills.
	Nolichucky shale.	Cn		700—800	Yellow, red, and brown calcareous shales, with a few limestone beds.	Narrow valleys; steep slopes of Knox dolomite ridges.
	Maryville limestone.	Cm		150	Massive blue limestone.	Valleys.
	Rome formation shale.	Cr		700—900	Red, green, yellow, and brown shales and sandy shales.	Slopes of Rome sandstone ridges.
	Rome formation sandstone.	Crs		300+	Red, yellow, and brown sandstones and sandy shales.	Sharp ridges with notches and gaps.

GENERALIZED SECTION SOUTHEAST OF CHILHOWEE MOUNTAIN.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY.
AGE UNKNOWN	Clingman conglomerate.	cl		1000+	Gray sandstone and coarse and fine conglomerate, with blue quartz and feldspar.	High mountains and broad domes.
	Hazel slate.	h		600—800	Black slate with small beds of sandstone and fine conglomerate.	Very sharp irregular divides and peaks.
	Thunder Head conglomerate.	th		3000+	Gray sandstone and coarse and fine conglomerate, with blue quartz and feldspar.	High domes and irregular mountains with broad rounded tops and steep slopes.
	Cades conglomerate.	cd		2400+	Gray sandstone and fine conglomerate, with many beds of sandy slate.	Mountains and irregular ridges with rounded tops and steep slopes.
	Pigeon slate.	Pg		1300—1700	Banded gray and bluish-gray slate and sandy slate; a few gray sandstone beds.	Irregular ridges and knobs with steep slopes.
	Citico conglomerate.	c		50—800	Coarse quartz conglomerate. Fine quartz conglomerate. Coarse white sandstone. Fine white sandstone.	High, sharp ridges.
	Wilhite slate.	wi		0—1000	Limestone conglomerates and sandy limestone. Bluish-black argillaceous and calcareous slate.	Open valleys; steep slopes of Citico conglomerate ridges.

GENERALIZED SECTION SOUTHEAST OF BAYS MOUNTAIN.						
PERIOD.	FORMATION NAME.	SYMBOL.	COLUMNAR SECTION.	THICKNESS IN FEET.	CHARACTER OF ROCKS.	CHARACTER OF TOPOGRAPHY.
CARB.	Newman limestone.	Cn		600+	Bluish-gray shale and shaly limestone. Massive blue limestone.	Low, open valleys.
DEVONIAN	Grainger shale.	Dg		1200	Red and yellow sandy shale. Massive white sandstone. Greenish and bluish-gray sandy shales and sandstones.	Slopes, high sharp ridges.
	Chattanooga black shale.	Dc		30—50	Black calcareous shale.	Narrow valleys.
SILURIAN	Bays sandstone.	Sb		300—1100	Red calcareous sandstone.	Belts of low irregular knobs
	Sevier shale.	Ssv		500—600	Light-blue calcareous shale.	Open, rolling valleys.
				200—400	Bluish-gray and red calcareous sandstones and shales.	Lines of low knobs.
				500—600	Light-blue calcareous shales.	Open, rolling valleys.
				500—650	Bluish-gray and gray calcareous sandstones and shales.	Lines of high knobs.
				500—750	Light-blue calcareous shale.	Open, rolling valleys and small knobs.
	Tellico sandstone.	St		800—900	Bluish-gray and gray calcareous sandstones and shales.	Lines of high knobs.
	Athens shale.	Sa		1000—1200	Light-blue calcareous shale.	Belts of low knobs.
					Black calcareous shale.	Open valleys.
					Gray argillaceous limestone.	
CAMBRIAN	Knox dolomite.	Sk		3500	Magnesian limestone; white, gray, light and dark blue, with nodules of chert.	Broad ridges and irregular rounded hills.
	Nolichucky shale.	Cn		450—550	Yellow and brown calcareous shale and limestone beds.	Flat, open valleys.
	Maryville limestone.	Cm		350—550	Massive dark-blue limestone.	Open valleys; lines of low knobs.
	Rogersville shale.	Crg		180—220	Bright-green clay-shales, with a limestone bed.	Lines of low knobs.
	Rutledge limestone.	Crt		350—450	Massive dark-blue limestone.	Open valleys.
	Rome formation.	Cr		250	Red, green, yellow, and brown shales and sandy shales.	Slopes of Rome sandstone ridges.
	Rome formation sandstone.	Crs		500—700	Red, white, and brown sandstones and sandy shales.	Sharp ridges with notches and gaps.
	Beaver limestone.	Cb		300	Massive blue limestone.	Narrow valleys
	Apison shale.	Ca		200	Green argillaceous shale.	
				900+	Bright-red, green, and brown sandy shales.	Belts of irregular knobs and ridges.
	Hesse sandstone.	Ch		500+	Fine, white massive sandstone.	High, sharp-crested mountains.
	Murray shale.	Cmr		300	Grayish-blue sandy shale.	Steep slopes and depressions.
	Nebo sandstone.	Cnb		500	Massive white sandstone, coarse and fine.	High, sharp-crested mountains.
Nichols shale.	Cnc		550—800	Grayish-blue sandy shale.	Steep slopes of Nebo sandstone mountains; narrow valleys.	
Cochran conglomerate.	Cch		600—900	Massive white sandstone, coarse and fine.	High, sharp crested mountains.	
			100—0	Red sandstone, gray sandy shale.		
			500—700	Coarse conglomerate, quartz, and feldspar pebbles.	Mountains and ridges with rounded crests.	
Sandsuck shale.	Cs		1000+	Grayish-blue argillaceous shale.	Flat, narrow valleys.	