

ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate age determinations and unit descriptions.

CENOZOIC	QUATERNARY	Holocene	O	Alluvium (<i>Undifferentiated</i>)					
			Ow	Wash deposits (<i>Alluvial deposits of modern washes</i>)					
			Oow	Older wash deposits (<i>Alluvial deposits of abandoned washes</i>)					
			Ols	Landslide deposits					
			Os	Wind-blown sand					
			Oyf	Younger fan deposits					
			Oif	Fan deposits					
			Oya	Younger alluvium					
			Ol	Lake deposits					
			Oof	Older fan deposits					
Oo	Older alluvium (<i>Undifferentiated</i>)	Basalt							
Og	Glacial till and outwash	Cinder cone							
CENOZOIC	PLEISTOCENE		Qod	Well dissected alluvial fans					
			Qh	Harold Formation and Shoemaker Gravel (<i>Fine- to coarse-grained sediments, nonmarine</i>)					
			Qol	Older lake deposits					
			QT	Continental deposits (<i>Undifferentiated; fluvial gravel, sand, silt, and clay</i>)					
			QTst	San Timoteo Formation (<i>Nonmarine sandstone, siltstone, conglomerate, and shale</i>)					
			Pi	Juniper Hills Formation (<i>Nonmarine sandstone, conglomerate, siltstone, and shale</i>)					
			Pow	Old Woman Sandstone (<i>Arkosic sandstone and conglomerate; nonmarine</i>)					
			Pcr	Crowder Formation (<i>Nonmarine arkosic sandstone and conglomerate</i>)					
			Pa	Anaverde Formation (<i>Nonmarine sandstone and shale</i>)					
			Pf	Fernando Formation (<i>Siltstone, sandstone, conglomerate; marine</i>)					
CENOZOIC	PLIOCENE		Ppb	Punchbowl Formation (<i>Nonmarine cobbly to pebbly sandstone</i>)					
			Mp	Potato Sandstone					
			Msa	Santa Ana Sandstone (<i>Nonmarine</i>)					
			Mcl	Coachella Fanglomerate (<i>Boulder, cobble, and pebble fanglomerate</i>)	MPv	Miocene-Pliocene volcanic rocks (<i>b-basalt; r-rhyolite tuff</i>)			
			Mpe	Puente Formation (<i>Marine siltstone, sandstone, and shale</i>)	Mi	Miocene shallow intrusive rocks (<i>a-andesitic; d-dacitic and rhyolitic; b-basaltic</i>)			
			Mb	Barstow Formation (<i>Nonmarine sandstone, siltstone, conglomerate, and tuff</i>)	Mgv	Glendora Volcanics (<i>a-andesite; b-basalt; r-rhyolite</i>)			
			Mb ^v	Barstow volcanic rocks	Mv	Miocene volcanic rocks (<i>a-andesite; b-basalt; d-dacite; p-pyroclastic rocks</i>)			
			Mcy	Punchbowl (?) Formation of Cajon Valley (<i>Nonmarine arkosic conglomerate and sandstone</i>)					
			Mtp	Topanga Formation (<i>Marine sandstone and conglomerate</i>)					
			Mt	Tropico Group (<i>Conglomerate, arkosic sandstone, siltstone, tuff, shale and limestone</i>)					
CENOZOIC	MIOCENE		Mc	Unnamed Miocene continental deposits (<i>Poorly sorted sandstone and conglomerate</i>)					
			Mcls	Mcls-limestone and claystone					
			Mph	Pickhandle and Jackhammer Formations (<i>Nonmarine tuff, agglomerate, sandstone, and mudflows</i>)					
			Mh	Hector Formation (<i>Nonmarine volcanoclastic sediments</i>)	Tgr	Tertiary granitic rocks			
			Mvq	Vaqueros (?) Formation (<i>Marine arkosic sandstone, siltstone, and conglomerate</i>)	Qvz	Vasquez Formation, volcanic member (<i>Andesite, dacite, and tuff</i>)			
					Qm	Mountain Meadows Biotite, Dacite Porphyry			
			CENOZOIC	OLIGOCENE		Tsf	San Francisquito Formation (<i>Massive marine sandstone</i>)		
						TKsf	San Francisquito (?) Formation (<i>Marine sandstone and siltstone</i>)		
						pc	Pelona Schist (<i>Feldspar-quartz-mica schist</i>)		
						Mzq	Mesozoic quartzite	Mzv	Mesozoic metavolcanic rocks
Fv	Fairview Valley Formation (<i>Limestone, calcareous sandstone and siltstone</i>)								
MESOZOIC									
MESOZOIC	MESOZOIC PLUTONIC ROCKS		Kgr	Cretaceous granitic rocks	Kqd	Cretaceous quartz diorite			
			Kgb	Gabbroic and dioritic rocks	Kqjm	Cretaceous or Jurassic quartz monzonite; Quartz Monzonite of Pleasant View Ridge			
			Jkg	Jurassic or Cretaceous granite	Jkgd	Jurassic or Cretaceous granodiorite			
			Jqd	Jurassic quartz diorite	Jhd	Jurassic hornblende diorite and minor gabbro			
			Jmz	Jurassic ? monzonite					
			Jgd	Mt. Lowe Granodiorite	Jmz	Triassic monzonite			
			gb	Gabbro of Pleasant View Ridge					
PALEOZOIC									
PRECAMBRIAN			Pzls	Upper Paleozoic limestone and marble					
			WG	Waterman Gneiss					
			ms	Metasedimentary rocks of uncertain age (<i>Quartzite, phyllite, and schist</i>)					
			ls	ls - limestone and marble					
			Cls	Cambrian and uppermost Precambrian metasedimentary rocks					
			Cq	Cls - Crystalline limestone; Cq - Quartzite					
			pCs	Late Precambrian metasedimentary rocks					
			pCq	pCs - undivided; pCq - quartzite					
			pCb	Baldwin Gneiss					

MAP SYMBOLS

	Contact		Synclinal fold
Observed or approximately located; queried where gradational or inferred.		Dashed where inferred; dotted where concealed by younger rocks.	
	Fault		Overturned fold
Solid where well located; dashed where approximately located or inferred; queried where continuation or existence is uncertain; dotted where concealed by younger rocks. Arrows show relative or apparent direction of movement. U, upthrown side and D, downthrown side (relative or apparent).		Dashed where inferred; dotted where concealed by younger rocks.	
	Thrust fault - bars on the upper plate. Generally dips less than 45°, but locally may have been subsequently steepened. Dashed where approximately located or inferred; dotted where concealed by younger rocks; queried where continuation or existence is uncertain.		Strike and dip of beds
		General strike and dip of stratified rocks.	
	Anticlinal fold		Most conspicuous foliation strike and dip
Dashed where inferred; dotted where concealed by younger rocks.			Joints
		Selected areas of prominently jointed plutonic rocks	
			Dikes

Sheared and deformed metamorphic rocks (age uncertain)

m₁ - Gneiss
 m₂ - Mylonite of Vincent Thrust
 m₃ - "Black Belt" Mylonite
 m₄ - High-grade metamorphic rocks

Locally contain undeformed to slightly deformed plutonic rocks.