

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

CHART SHOWING THE CORRELATIONS BETWEEN THE STREAM TERRACES
AND THE FORMATIONS AND ALLUVIAL DEPOSITS
IN THE NORTHWESTERN SACRAMENTO VALLEY AND ADJACENT AREAS

Geologic period and epoch (Various authors)	Continental glaciation (Birman, 1964; Morrison, 1965)	Sierra Nevada glaciation (Trucken area) (Birkeland, 1964)	Sierra Nevada glaciation (Mono Lake area) (Sharp and Birman, 1963; Birman, 1964; Sharp, 1972)	Trinity Alps glaciation (Sharp, 1960)	Klamath Mountains glaciation (Lee, 1973)	Age (ybp) (Various authors)	Northwestern Sacramento Valley STEELE this report	Stony Creek (Huston, 1973)	Stony Creek (Shierson and Begg, 1972)	North-eastern San Joaquin Valley (Marchand, 1977b; Marchand and Allwardt, 1977)	Sacramento County north of American River (Shierson, 1967a, 1967b)	Sacramento County south of American River (Shierson, 1967a, 1967b)	Sacramento County American River area (Shierson, 1967b)	Western Sacramento Valley (Olmsied and Davis, 1961)	Great Valley (Redwine, 1972)	Western Sacramento Valley (Sims and Sarna-Wojcicki, 1975; Sarna-Wojcicki, 1976)	Eastern Sacramento Valley (Olmsied and Davis, 1961)	Mokelumne River area (Piper and others, 1939; Gale and others, 1939)	Subsurface San Joaquin Valley (Davis and others, 1959)	Eastern Stanislaus, northern Merced, Turlock area (Davis and Hall, 1959)	Merced River area (Hudson, 1960)	San Joaquin River fan (Janda, 1965)	Southwestern San Joaquin Valley (Various authors)	Gabilan Mesa (Dohrenwend, 1975)	Salinas Valley (Tinsley, 1975)	Cecilville Trinity Alps area (Hershey, 1903b)	Northern and central California soils (Various authors)	North-eastern San Joaquin Valley subsoil soil color (Marchand, 1977a)	Northwestern Sacramento Valley subsoil soil color STEELE this report	Northwestern Sacramento Valley soils STEELE this report
Holocene	Frog Lake	Tiooga	Hilgard	Morris Meadow	Campbell	700-1,000	Recent alluvium	1	Holocene deposits	Alluvium and basin deposits	Alluvium and basin deposits	Alluvium and basin deposits	Alluvium and fan deposits			River deposits	Recent alluvium	Alluvium and basin deposits	Recent alluvium and sand dunes	Recent alluvium and sand dunes	Recent alluvium	Alluvium	Recent alluvium		Present river deposits	Riverwash Columbia Sacramento Freesport Tujunga Yolo Metz Hanford Grangeville Foster Burchell Bear Creek Temple Merced Landlow	10YR 5-6/2 m		Riverwash	
						2,900-4,000	Orland high floodplain																							H IV
Late Pleistocene	Wisconsin	Tiooga	Tenaya	Rush Creek	Lovers	14,100	Yolo terrace	2	Modesto Formation	Upper member	Upper member	Upper member	American River terrace I									Younger member	Deformed alluvium	Salinas - Docas surface	Metz and Salinas terraces Arroyo Seco fan system	Channel E	Hanford Oakdale Salinas Docas Mocho Hesperia Visalia Pachappa Chino Nunley Nymon Temple Merced Landlow	10-7.5YR 4/3-4 m	10YR 6/4 d	Yolo Arbuckle Kyo
						26,780	Arbuckle terrace																							
Middle Pleistocene	Illinoian	Donner Lake	Mono Basin	Swift Creek	1	62,000-126,000	Elk Creek strath terrace	3	Riverbank Formation	Upper unit	Riverbank Formation	Riverbank Formation	American River terrace III	Deeper parts of alluvial fans		Victor Formation	Victor Formation	Victor Formation				Older member	Placentia - Chamise terrace	Antioch terrace Placentia fan system	Channel C	Perkins San Joaquin Alamo Madera Snelling Ramona Placentia - Arbuckle Chamise Exeter Yokohi Seville Academy	7.5-5YR 4/4 m	5YR 5/6 d	Perkins Kimball	
						130,000	Salt Creek strath terrace																							Lower unit
Early Pleistocene	Kansan	Hubert	Sherwin	pre-Swift Creek	180 ft. terrace	250,000	Watson Creek strath terrace	4 and 5	Fair Oaks Formation	Upper member	Upper member of Fair Oaks Formation					Turlock Lake Formation	Turlock Lake Formation	Turlock Lake Formation	Younger member	Older member		Tulare Formation			Corning Whitney Nonpeltier Rocklin Cometa	2.5YR 4/6-8 m				
						300,000	Corning terrace sequence																						Lower unit	Lower unit
Tertiary	Nebraskan	McGee	Deadman Pass	300 ft. terrace	1,800,000	1,100,000	Redding high floodplain		North Merced Gravel		Gravels underlying lower Arroyo Seco surface	Lower Arroyo Seco surface	Lower Arroyo Seco surface	Red Bluff Formation	Red Bluff Formation											Redding Corning Rocklin	2.5YR-10R 4/6-8 m	5YR 5/6 d	Redding Corning	
						1,250,000	Red Bluff Formation																							China Hat Gravel member
Pliocene				300 ft. terrace	2,600,000	2,300,000			Laguna Formation	Upper unit																				
						2,600,000																							Lower unit	
Miocene				300 ft. terrace	3,000,000	3,280,000			Laguna Formation	Lower unit																				
						3,300,000																								
						5,000,000			Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Neroly equivalents	Neroly Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Mehrten Formation	Etchegoin Formation							

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1980

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.