

U. S. DEPARTMENT OF THE INTERIOR

U. S. GEOLOGICAL SURVEY

CHECKLISTS OF JURASSIC AND CRETACEOUS MACROFAUNA  
FROM U. S. GEOLOGICAL SURVEY COLLECTIONS  
WITHIN THE SAN JOSE 1:100,000 MAP SHEET, CALIFORNIA

by

WILLIAM P. ELDER<sup>1</sup> AND JOHN W. MILLER<sup>1</sup>

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<sup>1</sup>Menlo Park, California

## INTRODUCTION

In support of the U. S. Geological Survey mapping project in the San Jose 1:100,000 sheet, this report has been compiled from the U. S. Geological Survey Mesozoic collections that have been made within this area. All collections have been either initially identified or reviewed by the authors. This compilation covers but a small portion of the material available for the map sheet, as many other Mesozoic collections from this area are housed at the California Academy of Sciences, where the Stanford University collections also now reside, the University of California, Berkeley, and the Los Angeles County Museum. However, many of the U. S. Geological Survey collections come from the same localities as collections residing elsewhere.

In order to facilitate easier reading of the faunal checklists, the localities have been divided into three separate lists based on age. Table 1 lists the fossil localities and corresponding fossils present for rocks of Late Jurassic (Tithonian) through Valanginian age. Although the total age range of Buchia (Oxfordian through Valanginian) is listed for localities containing indeterminate species of Buchia, there is no evidence of Oxfordian age rocks in the map area. Table 2 is a checklist for localities of Albian through Coniacian age; no fossil localities are known from the Hauterivian through Aptian Stages in this area. Table 3 lists localities and fossils of Santonian through Maastrichtian age, and includes two samples that may be either Maastrichtian or Paleocene in age (M8641, M8642). Localities containing no age diagnostic taxa have been placed in the age group with which they most likely belong based on known geology and stratigraphy of the area. Map numbers representing one or more fossil localities are plotted on the San Jose 1:100,000 sheet (Plate 1), with the map numbers of each age group designated by a different symbol. Ages and quadrangle names corresponding to the abbreviations used in the fossil checklists are shown in Tables 4 and 5, respectively. Exact locality information is listed in the appendix.

Table 4. Age abbreviations used in Tables 1 to 3.

Abbreviation	Age or Other
Jur	Jurassic
Ox	Oxfordian
Tith	Tithonian
Cret	Cretaceous
Berr	Berriasian
Val	Valanginian
Alb	Albian
Cenom	Cenomanian
Tur	Turonian
Con	Coniacian
Sant	Santonian
Camp	Campanian
Maas	Maastrichtian
E	Early
M	Middle
L	Late

Table 5. Quadrangle abbreviations used in Tables 1 to 3.

Abbreviation	Quadrangle Name (1:24,000)
CR	Calaveras Reservoir
CM	Copper Mountain
CVP	Crevison Peak
EM	Eylar Mountain
GI	Gilroy
HR	Howard Ranch
LL	Laurel
LO	Lick Observatory
LP	Loma Prieta
LG	Los Gatos
MC	Mississippi Creek
MH	Morgan Hill
MD	Mount Day
MM	Mount Madonna
MS	Mount Sizer
OP	Orestimba Peak
PT	Patterson
SJE	San Jose East
SLD	San Luis Dam

## APPENDIX

Map Locality Number: 1; USGS Mesozoic Locality: M6372.  
California, Calaveras Reservoir 1:24000 quadrangle.  
Santa Clara County.  
On E side of hill between Dutard and Upper Penitencia Creeks.  
Elevation: 400 ft, 122 m;  
Township: 6S; Range: 1E  
Collector: R. L. Rose, 1974  
Field Identifier: AR221

Map Locality Number: 1; USGS Mesozoic Locality: M6373.  
California, Calaveras Reservoir 1:24000 quadrangle.  
Santa Clara County.  
On nose of hill between Dutard and Upper Penitencia Creeks.  
Elevation: 450 ft, 137 m;  
Township: 6S; Range: 1E  
Collector: R. L. Rose, 1973  
Field Identifier: AR230

Map Locality Number: 2; USGS Mesozoic Locality: M6371.  
California, Calaveras Reservoir 1:24000 quadrangle.  
Santa Clara County.  
Nose of hill N of Eagle Rock and Upper Penitencia Creeks.  
Elevation: 1050 ft, 320 m;  
Township: 6S; Range: 1E  
Collector: R. L. Rose, 1974  
Field Identifier: AR108

Map Locality Number: 3; USGS Mesozoic Locality: M1807.  
California, Calaveras Reservoir 1:24000 quadrangle.  
Santa Clara County.  
Alum Rock Park, N of Penitencia Creek Road, ca. 0.3 km NE of BM 534.  
Elevation: 580 ft, 177 m;  
Township: 6S; Range: 1E  
Collector: R. L. Rose, 1963  
Field Identifier: None

Map Locality Number: 4; USGS Mesozoic Locality: M6370.  
California, Calaveras Reservoir 1:24000 quadrangle.  
Santa Clara County.  
SW side of Crothers Road E of Alum Rock.  
Elevation: 1000 ft, 305 m;  
Township: 6S; Range: 2E; 0.4 km W of Range line  
Collector: R. L. Rose, 1974  
Field Identifier: AR38

Map Locality Number: 5; USGS Mesozoic Locality: M6633.  
California, San Jose East 1:24000 quadrangle.  
Santa Clara County.  
W side of small drainage dissecting NW end of ridge between Silver Cr & Dry Creeks.  
Elevation: 250 ft, 76 m;  
Township: 7S; Range: 2E; Near ctr W Range line  
Collector: R. L. Rose, 1977  
Field Identifier: 77-2

Map Locality Number: 6; USGS Mesozoic Locality: M5679.  
California, Lick Observatory 1:24000 quadrangle.  
Santa Clara County.  
Cut bank on SW side Dry Cr 0.4 km NW of Silver Cr Rd.  
Elevation: 600 ft, 183 m;  
Township: 7S; Range: 2E; W edge of quad  
Collector: D. L. Jones, 1970  
Field Identifier: LO-60-1

Map Locality Number: 7; USGS Mesozoic Locality: M6632.  
California, Lick Observatory 1:24000 quadrangle.  
Santa Clara County.  
N side of Thompson Creek along San Felipe Rd in unsurveyed land.  
Elevation: 1200 ft, 366 m;  
Township: 7S; Range: 3E; Section: 8; NW crn of extended sec.  
Collector: R. L. Rose, 1977  
Field Identifier: 77-1

Map Locality Number: 8; USGS Mesozoic Locality: M5666.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Mouth of Hooker Gulch at Los Gatos Creek.  
Latitude: 37 degrees 9.29' N; Longitude: 121 degrees 57.80' W;  
Elevation: 780 ft, 238 m;  
Township: 9S; Range: 1W; Section: 15; NE/NW/NW quarter  
Collector: Tom Rodgers, 1970  
Field Identifier: None

Map Locality Number: 8; USGS Mesozoic Locality: M8651.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Mouth of Hooker Gulch.  
Elevation: 780 ft, 238 m;  
Township: 9S; Range: 1W; Section: 15; NW/NW quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-24-90

Map Locality Number: 9; USGS Mesozoic Locality: M5364.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Head of tributary to Austrian Gulch.  
Latitude: 37 degrees 9.24' N; Longitude: 121 degrees 54.92' W;  
Elevation: 2760 ft, 841 m;  
Township: 9S; Range: 1W; Section: 13; NW/NE/NE quarter  
Collector: E. Brabb, 1969  
Field Identifier: 69-B-595

Map Locality Number: 9; USGS Mesozoic Locality: M8654.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Ridge north of Austrian Gulch.  
Elevation: 2750 ft, 838 m;  
Township: 9S; Range: 1E; Section: 13; NE/NE quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-14-90

Map Locality Number: 9; USGS Mesozoic Locality: M8656.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Head of tributary to Austrian Gulch.  
Elevation: 2760 ft, 841 m;  
Township: 9S; Range: 1W; Section: 13; NW/NE/NE quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-13-90

Map Locality Number: 10; USGS Mesozoic Locality: M5365.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Austrian Gulch.  
Latitude: 37 degrees 8.74' N; Longitude: 121 degrees 54.58' W;  
Elevation: 1640 ft, 500 m;  
Township: 9S; Range: 1E; Section: 18; NW/SW/SW quarter  
Collector: D. L. Jones, 1969  
Field Identifier: 69-JLG-1

Map Locality Number: 11; USGS Mesozoic Locality: M5366.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Austrian Gulch.  
Latitude: 37 degrees 8.72' N; Longitude: 121 degrees 54.22' W;  
Elevation: 2000 ft, 610 m;  
Township: 9S; Range: 1E; Section: 18; NW/SE/SW quarter  
Collector: D. L. Jones, 1969  
Field Identifier: 69-JLG-2

Map Locality Number: 12; USGS Mesozoic Locality: M8575.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
South bank of Lake Elsman east of dam.  
Latitude: 37 degrees 7.79' N; Longitude: 121 degrees 55.73' W;  
Elevation: 1200 ft, 366 m;  
Township: 9; Range: 1W; Section: 24; SW/SW/SW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-28

Map Locality Number: 13; USGS Mesozoic Locality: M8576.  
California, Laurel 1:24000 quadrangle.  
Santa Clara County.  
South side of Williams Reservoir.  
Latitude: 37 degrees 7.17' N; Longitude: 121 degrees 54.22' W;  
Elevation: 1400 ft, 427 m;  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-None

Map Locality Number: 14; USGS Mesozoic Locality: M8536.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
On ridge top near juncture of 2 dirt roads.  
Latitude: 37 degrees 7.34' N; Longitude: 121 degrees 49.74' W;  
Elevation: 3200 ft, 976 m;  
Township: 9S; Range: 1E; Section: 26; SW/SW/NE quarter  
Collector: R. J. McLaughlin, 1988  
Field Identifier: 88-MSJ-30

Map Locality Number: 15; USGS Mesozoic Locality: M8528.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Ridge east of Loma Prieta.  
Latitude: 37 degrees 6.72' N; Longitude: 121 degrees 50.06' W;  
Elevation: 3400 ft, 1037 m;  
Township: 9S; Range: 1E; Section: 35; Ctr E line NW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-4

Map Locality Number: 16; USGS Mesozoic Locality: M8529.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Steep bank east of Loma Prieta.  
Latitude: 37 degrees 6.68' N; Longitude: 121 degrees 50.04' W;  
Elevation: 3200 ft, 976 m;  
Township: 9S; Range: 1E; Section: 35; SE/NW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-5

Map Locality Number: 16; USGS Mesozoic Locality: M8539.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Concretion on southwest side of road on ridgetop.  
Latitude: 37 degrees 6.66' N; Longitude: 121 degrees 49.99' W;  
Elevation: 3240 ft, 988 m;  
Township: 9S; Range: 1E; Section: 35; SE/NW/NW quarter  
Collector: R. J. McLaughlin, 1988  
Field Identifier: 88-MSJ-220

Map Locality Number: 17; USGS Mesozoic Locality: M8535.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Concretions in talus on northeast side of road.  
Latitude: 37 degrees 6.58' N; Longitude: 121 degrees 50.04' W;  
Elevation: 2940 ft, 896 m;  
Township: 9S; Range: 1E; Section: 35; NE/SW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-6

Map Locality Number: 18; USGS Mesozoic Locality: M8554.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Intermittent creek crossing Loma Chiquita Road.  
Latitude: 37 degrees 6.65' N; Longitude: 121 degrees 50.10' W;  
Elevation: 3000 ft, 915 m;  
Township: 9S; Range: 1E; Section: 35; SE/NW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-None

Map Locality Number: 19; USGS Mesozoic Locality: M5367.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Cruz County.  
Loma Prieta Road.  
Latitude: 37 degrees 5.96' N; Longitude: 121 degrees 51.52' W;  
Elevation: 2850 ft, 869 m;  
Township: 10S; Range: 1E; Section: =4; NE/NE quarter  
Collector: E. Brabb, 1969  
Field Identifier: 69-CB-564

Map Locality Number: 19; USGS Mesozoic Locality: M5368.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Cruz County.  
Loma Prieta Road.  
Latitude: 37 degrees 5.95' N; Longitude: 121 degrees 51.44' W;  
Elevation: 2950 ft, 899 m;  
Township: 10S; Range: 1E; Section: =4; NE/NE quarter  
Collector: D. L. Jones, 1969  
Field Identifier: 69-JLP-1



Map Locality Number: 19; USGS Mesozoic Locality: M8524.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Cruz County.  
North side of Loma Prieta Road.  
Latitude: 37 degrees 5.95' N; Longitude: 121 degrees 51.45' W;  
Elevation: 2950 ft, 899 m;  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-1

Map Locality Number: 20; USGS Mesozoic Locality: M8525.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
North side of Loma Prieta Road.  
Latitude: 37 degrees 5.91' N; Longitude: 121 degrees 51.20' W;  
Elevation: 2950 ft, 899 m;  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-2

Map Locality Number: 21; USGS Mesozoic Locality: M8527.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Gully southwest of Loma Prieta Road.  
Latitude: 37 degrees 6.16' N; Longitude: 121 degrees 50.56' W;  
Elevation: 3200 ft, 976 m;  
Collector: R. J. McLaughlin, 1988  
Field Identifier: 88-MSJ-75

Map Locality Number: 22; USGS Mesozoic Locality: M8526.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Southwest side of Loma Prieta Road.  
Latitude: 37 degrees 6.10' N; Longitude: 121 degrees 50.56' W;  
Elevation: 3000 ft, 915 m;  
Collector: W. P. Elder, 1988  
Field Identifier: 88-E-3

Map Locality Number: 23; USGS Mesozoic Locality: M8538.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Cruz County.  
Northeast side of dirt road paralleling Trout Creek.  
Latitude: 37 degrees 5.10' N; Longitude: 121 degrees 49.19' W;  
Elevation: 3000 ft, 915 m;  
Township: 10S; Range: 1E; Section: 2; SE/SE/SE quarter  
Collector: R. J. McLaughlin, 1988  
Field Identifier: 88-MSJ-220

Map Locality Number: 24; USGS Mesozoic Locality: M5890.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Mt Madonna Road north of Maymens Flat.  
Latitude: 37 degrees 5.15' N; Longitude: 121 degrees 49.27' W;  
Elevation: 2940 ft, 896 m;  
Township: 10S; Range: 1E; Section: 2; SW/SE/SE quarter  
Collector: T. Simoni, 1971  
Field Identifier: 71-LP-597

Map Locality Number: 24; USGS Mesozoic Locality: M8540.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Sandstone on southwest side of Mt. Madonna Road.  
Latitude: 37 degrees 5.15' N; Longitude: 121 degrees 49.27' W;  
Elevation: 2940 ft, 896 m;  
Township: 10S; Range: 1E; Section: 2; SW/SE/SE quarter  
Collector: R. J. McLaughlin, 1988  
Field Identifier: 88-MSJ-890

Map Locality Number: 25; USGS Mesozoic Locality: M6781.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Uvas Creek at Swanson Canyon.  
Latitude: 37 degrees 5.20' N; Longitude: 121 degrees 47.50' W;  
Elevation: 1000 ft, 305 m;  
Township: 10S; Range: 2E; Section: 6; Ctr E line SW quarter  
Collector: E. Brabb, 1976  
Field Identifier: 77-CB-1804

Map Locality Number: 26; USGS Mesozoic Locality: M5362.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Old Watsonville Road south of Sanders Road.  
Latitude: 37 degrees 1.95' N; Longitude: 121 degrees 42.67' W;  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 2E; Section: 25; NW/SW quarter  
Collector: R. J. McLaughlin, 1969  
Field Identifier: 69-SF-18,19

Map Locality Number: 26; USGS Mesozoic Locality: M5389.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Old Watsonville Road south of Sanders Road.  
Latitude: 37 degrees 1.96' N; Longitude: 121 degrees 42.63' W;  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 2E; Section: 25; NW/SW quarter  
Collector: R. J. McLaughlin, 1969  
Field Identifier: 69-SF-109

Map Locality Number: 27; USGS Mesozoic Locality: M5358.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Mt. Madonna County Park north of Sprig Lake.  
Latitude: 37 degrees .81' N; Longitude: 121 degrees 41.05' W;  
Elevation: 800 ft, 244 m;  
Township: 10S; Range: 3E; Section: =31; SE/SE/SW quarter  
Collector: R. J. McLaughlin, 1969  
Field Identifier: 69-SF-55

Map Locality Number: 28; USGS Mesozoic Locality: M5359.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Mt. Madonna County Park north of Sprig Lake.  
Latitude: 37 degrees .85' N; Longitude: 121 degrees 41.21' W;  
Elevation: 940 ft, 287 m;  
Township: 10S; Range: 3E; Section: =31; SW/SE/SW quarter  
Collector: R. J. McLaughlin, 1969  
Field Identifier: 69-SF-60

Map Locality Number: 29; USGS Mesozoic Locality: M6091.  
California, Loma Prieta 1:24000 quadrangle.  
Santa Clara County.  
Ridge between forks of Los Gatos Creek.  
Latitude: 37 degrees 6.39' N; Longitude: 121 degrees 51.30' W;  
Elevation: 3000 ft, 915 m;  
Township: 9S; Range: 1E; Section: =34; NW/SW quarter  
Collector: T. Simoni, 1973  
Field Identifier: 73-LP-118

Map Locality Number: 30; USGS Mesozoic Locality: M5524.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Southeast shore of small reservoir.  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 2E; Section: 25; NE/NW quarter  
Collector: R. J. McLaughlin, 1970  
Field Identifier: SF-424-70

Map Locality Number: 31; USGS Mesozoic Locality: M5523.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
Tributary to Little Arthur Creek.  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 2E; Section: 36; NE/NW quarter  
Collector: R. J. McLaughlin, 1970  
Field Identifier: SF-143-70

Map Locality Number: 32; USGS Mesozoic Locality: M5530.  
California, Mount Madonna 1:24000 quadrangle.  
Santa Clara County.  
On dirt road crossing Mt. Madonna County Park boundary.  
Elevation: 800 ft, 244 m;  
Township: 10S; Range: 2E; Section: 31; NW/SW quarter  
Collector: R. J. McLaughlin, 1970  
Field Identifier: SF-153-70

Map Locality Number: 33; USGS Mesozoic Locality: M8655.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
In gully between 2 tributaries N of Austrian Gulch.  
Elevation: 2000 ft, 610 m;  
Township: 9S; Range: 1E; Section: 18; Ctr SW quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-10-90

Map Locality Number: 34; USGS Mesozoic Locality: M8652.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Ridge north of Lake Elsman 0.2 km N of hill 2286.  
Elevation: 2280 ft, 695 m;  
Township: 9S; Range: 1W; Section: 13; Ctr N 1/2 of SW quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-60-90

Map Locality Number: 34; USGS Mesozoic Locality: M8653.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Ridge north of Lake Elsman 0.1 km N of hill 2286.  
Elevation: 2240 ft, 683 m;  
Township: 9S; Range: 1W; Section: 13; SW quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-59-60

Map Locality Number: 34; USGS Mesozoic Locality: M8657.  
California, Los Gatos 1:24000 quadrangle.  
Santa Clara County.  
Ridge north of Lake Elsman 0.3 km N of hill 2286.  
Elevation: 2250 ft, 686 m;  
Township: 9S; Range: 1W; Section: 13; SW quarter  
Collector: R. J. McLaughlin, 1990  
Field Identifier: MSJ-61-90

Map Locality Number: 35; USGS Mesozoic Locality: M5794.  
California, Mount Day 1:24000 quadrangle.  
Santa Clara County.  
SW trending spur of Poverty Ridge E of hill 2886.  
Elevation: 2840 ft, 866 m;  
Township: 6S; Range: 2E; Section: 10; Center of W line SW quarter  
Collector: Ken Crawford, 1971  
Field Identifier: 269

Map Locality Number: 36; USGS Mesozoic Locality: M6103.  
California, Morgan Hill 1:24000 quadrangle.  
Santa Clara County.  
In trench across Coyote Cr fault near fault contact with serpentinite.  
Latitude: 37 degrees 11.60' N; Longitude: 121 degrees 41.40' W;  
Elevation: 1120 ft, 341 m;  
Township: 8S; Range: 3E; NW of SW cnr of T – R lines  
Collector: E. Brabb, 1973  
Field Identifier: 73CB-1101

Map Locality Number: 37; USGS Mesozoic Locality: M6424.  
California, Eylar Mountain 1:24000 quadrangle.  
Santa Clara County.  
Arroyo Valle opposite mouth of Sams Canyon.  
Elevation: 1600 ft, 488 m;  
Township: 6S; Range: 4E; Section: 6; Ctr SW quarter  
Collector: Ken Crawford, 1975  
Field Identifier: EY-309

Map Locality Number: 38; USGS Mesozoic Locality: M6187.  
California, Mount Sizer 1:24000 quadrangle.  
Santa Clara County.  
Cold Flat, Middle Fork of Coyote Creek.  
Elevation: 2560 ft, 780 m;  
Township: 8S; Range: 4E; Section: 23; NE/NW quarter  
Collector: T. Nilsen, 1973  
Field Identifier: None

Map Locality Number: 39; USGS Mesozoic Locality: M5074.  
California, Gilroy 1:24000 quadrangle.  
Santa Clara County.  
In bed of N fork of Live Oak Cr, in switchback of Roop Rd to Coyote Lake.  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 4E; Section: 15; SW cnr of extended sec.  
Collector: Dorothy Radbruch, 1968  
Field Identifier: P-1

Map Locality Number: 40; USGS Mesozoic Locality: M5075.  
California, Gilroy 1:24000 quadrangle.  
Santa Clara County.  
In bed of N fork of Live Oak Cr, in switchback of Roop Rd to Coyote Lake.  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 4E; Section: 15; SW crn of extended sec.  
Collector: Dorothy Radbruch, 1968  
Field Identifier: P-2

Map Locality Number: 41; USGS Mesozoic Locality: M6088.  
California, Gilroy 1:24000 quadrangle.  
Santa Clara County.  
Roop Rd opposite fork of Live Oak Cr.  
Elevation: 600 ft, 183 m;  
Township: 10S; Range: 4E; Section: 22; NW crn of extended sec.  
Collector: J. K. Nakata, 1972  
Field Identifier: 67-3/72

Map Locality Number: 42; USGS Mesozoic Locality: M5782.  
California, Mississippi Creek 1:24000 quadrangle.  
Santa Clara County.  
Hillside east of Kelly Cabin Canyon.  
Elevation: 1920 ft, 585 m;  
Township: 9S; Range: 5E; Section: 21; Ctr W line of SW quarter  
Collector: D. L. Jones, 1971  
Field Identifier: 71-JMC-1

Map Locality Number: 43; USGS Mesozoic Locality: M5783.  
California, Mississippi Creek 1:24000 quadrangle.  
Santa Clara County.  
Hillside east of Kelly Cabin Canyon.  
Elevation: 2000 ft, 610 m;  
Township: 9S; Range: 5E; Section: 21; NW/SW/SW quarter  
Collector: W. Cotton, 1971  
Field Identifier: Cotton #1

Map Locality Number: 43; USGS Mesozoic Locality: M8553.  
California, Mississippi Creek 1:24000 quadrangle.  
Santa Clara County.  
Hillside east of Kelly Cabin Canyon.  
Latitude: 37 degrees 8.05' N; Longitude: 121 degrees 26.50' W;  
Elevation: 2000 ft, 610 m;  
Township: 9S; Range: 5E; Section: 21; NW/SW/SW quarter  
Collector: W. P. Elder, 1989  
Field Identifier: None

Map Locality Number: 44; USGS Mesozoic Locality: M8552.  
California, Mississippi Creek 1:24000 quadrangle.  
Santa Clara County.  
Hillside east of Kelly Cabin Canyon.  
Latitude: 37 degrees 8.09' N; Longitude: 121 degrees 26.40' W;  
Elevation: 2000 ft, 610 m;  
Township: 9S; Range: 5E; Section: 21; NE/SW/SW quarter  
Collector: W. P. Elder, 1989  
Field Identifier: None

Map Locality Number: 45; USGS Mesozoic Locality: M7462.  
California, Copper Mountain 1:24000 quadrangle.  
Stanislaus County.  
Road cut, Del Puerto Canyon Road.  
Elevation: 1100 ft, 335 m;  
Township: 6E; Range: 6S; Section: 7; SW quarter  
Collector: Allan Bennison, 1980  
Field Identifier: None

Map Locality Number: 46; USGS Mesozoic Locality: 9396.  
California, Copper Mountain 1:24000 quadrangle.  
Stanislaus County.  
S bank Del Puerto Cr. Data too poor for precise relocation.  
Elevation: 1100 ft, 335 m;  
Township: 6S; Range: 6E; Section: 4; East line  
Collector: T. W. Stanton, 1916  
Field Identifier: 1781

Map Locality Number: 47; USGS Mesozoic Locality: 7442.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Between Del Puerto & Salado Crs. Data too poor for precise relocation.  
Elevation: 0 ft, 0 m;  
Township: 5-6S; Range: 7E; Section: unknown  
Collector: R. W. Pack, 1911  
Field Identifier: None

Map Locality Number: 47; USGS Mesozoic Locality: 7443.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Between Del Puerto & Salado Crs. Data too poor for precise relocation.  
Elevation: 0 ft, 0 m;  
Township: 5-6S; Range: 7E; Section: unknown  
Collector: R. W. Pack, 1911  
Field Identifier: None

Map Locality Number: 47; USGS Mesozoic Locality: 9397.  
California, Copper Mountain 1:24000 quadrangle.  
Stanislaus County.  
S of Del Puerto Cr. Data too poor for precise relocation.  
Elevation: 0 ft, 0 m;  
Township: 6S; Range: 6E; Section: 15;  
Collector: T. W. Stanton, 1916  
Field Identifier: 1782

Map Locality Number: 48; USGS Mesozoic Locality: 9398.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Gulch on S side Del Puerto Cr. Data too poor for precise relocation.  
Elevation: 400 ft, 122 m;  
Township: 5S; Range: 7E; Section: 29; NW quarter  
Collector: T. W. Stanton, 1916  
Field Identifier: 1783

Map Locality Number: 49; USGS Mesozoic Locality: 7067.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
N side of Salado Cr. in bottom of small gully SE of hill 962.  
Elevation: 600 ft, 183 m;  
Township: 6S; Range: 7E; Section: 10; Ctr N line SW quarter  
Collector: R. W. Pack, 1910  
Field Identifier: 118

Map Locality Number: 50; USGS Mesozoic Locality: 7066.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Bottom of small canyon draining into Big Salado Cr.  
Elevation: 400 ft, 122 m;  
Township: 6S; Range: 7E; Section: 15; Near ctr section  
Collector: R. W. Pack, 1910  
Field Identifier: 117

Map Locality Number: 51; USGS Mesozoic Locality: 7064.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
South side Little Salado Cr. 2 km NW of McDonald Ranch.  
Elevation: 500 ft, 152 m;  
Township: 6S; Range: 7E; Section: 15; SE/SE/SW quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 115



Map Locality Number: 51; USGS Mesozoic Locality: 9400.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
S bank of Little Salado Cr. Data too poor for precise relocation.  
Elevation: 400 ft, 122 m;  
Township: 6S; Range: 7E; Section: 15; SE/SE/SW quarter?  
Collector: T. W. Stanton, 1916  
Field Identifier: 1785

Map Locality Number: 52; USGS Mesozoic Locality: 7065.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Between Crow & Salado Crs. 1 mi NW of McDonald's house.  
Elevation: 800 ft, 244 m;  
Township: 6S; Range: 7E; Section: 27; Just S of ctr N sec. line  
Collector: E. L. Ickes, 1910  
Field Identifier: 116

Map Locality Number: 52; USGS Mesozoic Locality: 9399.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Between Crow & Salado Crs. Data too poor for precise relocation.  
Elevation: 600 ft, 183 m;  
Township: 6S; Range: 7E; Section: 27; Near ctr N sec. line  
Collector: T. W. Stanton, 1916  
Field Identifier: 1784

Map Locality Number: 53; USGS Mesozoic Locality: 7062.  
California, Orestimba Peak 1:24000 quadrangle.  
Stanislaus County.  
Up tributary of Oso Creek. Data too poor for precise relocation.  
Elevation: 800 ft, 244 m;  
Township: 7S; Range: 7E; Section: 10; Ctr E sec. line?  
Collector: E. L. Ickes, 1910  
Field Identifier: 113

Map Locality Number: 54; USGS Mesozoic Locality: 7063.  
California, Patterson 1:24000 quadrangle.  
Stanislaus County.  
Ridge east of Oso Creek.  
Elevation: 500 ft, 152 m;  
Township: 7S; Range: 7E; Section: 23?; NE? quarter  
Collector: R. W. Pack, 1910  
Field Identifier: 114

Map Locality Number: 55; USGS Mesozoic Locality: 7061.  
California, Orestimba Peak 1:24000 quadrangle.  
Stanislaus County.  
Small bank on N side Orestimba Cr.  
Elevation: 300 ft, 91 m;  
Township: 7S; Range: 7E; Section: 25; Near ctr W sec. line  
Collector: R. W. Pack & E. L. Ickes, 1910  
Field Identifier: 112

Map Locality Number: 56; USGS Mesozoic Locality: 7060.  
California, Orestimba Peak 1:24000 quadrangle.  
Stanislaus County.  
S side Orestimba Cr. Atop 420 ft hill.  
Elevation: 420 ft, 130 m;  
Township: 7S; Range: 7E; Section: 25; SW/SW quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 111

Map Locality Number: 57; USGS Mesozoic Locality: M8643.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
N side of second gully on E side of Oat Gulch N of mouth.  
Elevation: 620 ft, 189 m;  
Township: 8S; Range: 7E; Section: 12; Ctr SWSE quarter  
Collector: Allan Bennison, 1990  
Field Identifier: K1

Map Locality Number: 58; USGS Mesozoic Locality: M8644.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
N side of second gully on E side of Oat Gulch N of mouth.  
Elevation: 600 ft, 183 m;  
Township: 8S; Range: 7E; Section: 12; SWSWSE quarter  
Collector: Allan Bennison, 1990  
Field Identifier: BW-161-1

Map Locality Number: 59; USGS Mesozoic Locality: M8645.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
In gully ca. 1.25 mi. N of Garzas Creek mouth W of Bennett Val.  
Elevation: 570 ft, 174 m;  
Township: 8S; Range: 7E; Section: 13; Ctr NE\NE\NE quarter  
Collector: Allan Bennison, 1990  
Field Identifier: K2

Map Locality Number: 60; USGS Mesozoic Locality: 7053.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Ridge East of Oat Gulch.  
Elevation: 800 ft, 244 m;  
Township: 7E; Range: 8E; Section: 13; NWNE quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 99

Map Locality Number: 61; USGS Mesozoic Locality: 7052.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
In major gully dissecting ridge E of Oat Gulch N of Garzas Cr.  
Elevation: 600 ft, 183 m;  
Township: 8S; Range: 8E; Section: 18; NW/SW quarter  
Collector: R. W. Pack, 1910  
Field Identifier: None

Map Locality Number: 62; USGS Mesozoic Locality: M537.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Second Ridge east of Oat Creek in concretionary sandstone bed.  
Elevation: 500 ft, 152 m;  
Township: 8S; Range: 7E; Section: 13; SE/NE/SE quarter  
Collector: D. Jones & F. Schilling, 1958  
Field Identifier: 59-PP-1

Map Locality Number: 63; USGS Mesozoic Locality: M8555.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Conglomerate west of gully branching north from Garzas Creek.  
Latitude: 37 degrees 13.32' N; Longitude: 121 degrees 10.24' W;  
Elevation: 400 ft, 122 m;  
Township: 8S; Range: 7E; Section: 23; SE/NE/SW quarter  
Collector: W. P. Elder, 1989  
Field Identifier: 89E-1

Map Locality Number: 64; USGS Mesozoic Locality: M538.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Garzas Creek, small NE trending gully on s side of creek.  
Elevation: 800 ft, 244 m;  
Township: 8S; Range: 7E; Section: 29; NE/SW quarter  
Collector: D. Jones & F. Schilling, 1958  
Field Identifier: 59-PP-2

Map Locality Number: 65; USGS Mesozoic Locality: 6963.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Jeep trail between Bear Gulch & Quinto Creek.  
Elevation: 1000 ft, 305 m;  
Township: 8S; Range: 7E; Section: 36; NE/NW quarter  
Collector: R. W. Pack, 1910  
Field Identifier: 10

Map Locality Number: 66; USGS Mesozoic Locality: M5529.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Woodchopper Gulch.  
Elevation: 1100 ft, 335 m;  
Township: 9S; Range: 7E; Section: 4; NW/NE quarter  
Collector: D. L. Jones, 1970  
Field Identifier: 70-JPC-2

Map Locality Number: 67; USGS Mesozoic Locality: M5528.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Up Woodchopper Gulch from Quinto Creek.  
Elevation: 1100 ft, 335 m;  
Township: 9S; Range: 7E; Section: 4; NW/NE quarter  
Collector: D. L. Jones, 1970  
Field Identifier: 70-JPC-2

Map Locality Number: 68; USGS Mesozoic Locality: M8556.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Float concretions in shallow gully.  
Latitude: 37 degrees 10.67' N; Longitude: 121 degrees 11.56' W;  
Elevation: 800 ft, 244 m;  
Township: 9S; Range: 7E; Section: 3; NE/SE/SW quarter  
Collector: W. P. Elder, 1989  
Field Identifier: 89E-4

Map Locality Number: 68; USGS Mesozoic Locality: M8559.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Shale on NW slope of shallow gully.  
Latitude: 37 degrees 10.67' N; Longitude: 121 degrees 11.57' W;  
Elevation: 800 ft, 244 m;  
Township: 9S; Range: 7E; Section: 3; NE/SW/SW quarter  
Collector: W. P. Elder, 1989  
Field Identifier: 89E-5

Map Locality Number: 69; USGS Mesozoic Locality: M8557.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Terrace, N bank of Quinto Creek.  
Latitude: 37 degrees 10.51' N; Longitude: 121 degrees 11.02' W;  
Elevation: 650 ft, 198 m;  
Township: 9S; Range: 7E; Section: 3; SW/SE/SE quarter  
Collector: W. P. Elder, 1989  
Field Identifier: None

Map Locality Number: 70; USGS Mesozoic Locality: M5527.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Up Long Gulch from Quinto Creek.  
Elevation: 1200 ft, 366 m;  
Township: 9S; Range: 7E; Section: 3; NW/SW quarter  
Collector: F. Schilling, 1970  
Field Identifier: S-3430

Map Locality Number: 71; USGS Mesozoic Locality: M8558.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Low band outcropping north of Quinto Creek.  
Latitude: 37 degrees 10.23' N; Longitude: 121 degrees 8.95' W;  
Elevation: 520 ft, 159 m;  
Township: 9S; Range: 7E; Section: 12; SE/NW/NE quarter  
Collector: W. P. Elder, 1989  
Field Identifier: 89E-7

Map Locality Number: 72; USGS Mesozoic Locality: M8563.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Shaly ridge 0.5 mi E of Bass Lake & 0.2 mi N of Romero Creek.  
Latitude: 37 degrees 9.08' N; Longitude: 121 degrees 9.95' W;  
Elevation: 1100 ft, 335 m;  
Township: 9S; Range: 7E; Section: 14; NE/NW/SE quarter  
Collector: Allan Bennison, 1989  
Field Identifier: None

Map Locality Number: 73; USGS Mesozoic Locality: 6956.  
California, Crevison Peak 1:24000 quadrangle.  
Merced County.  
Probably NW of Tile Cr in headwaters of Romero Creek.  
Elevation: 600 ft, 183 m;  
Township: 9S; Range: 7E; Section: 13; SW/SW quarter  
Collector: R. W. Pack, 1910  
Field Identifier: 3

Map Locality Number: 74; USGS Mesozoic Locality: 7049.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
S side of mouth of Garzas Cr by roadside at NW end of 800' hill.  
Elevation: 400 ft, 122 m;  
Township: 8S; Range: 8E; Section: 18; Quarter: SE sec 18 or NE sec  
Collector: R. W.Pack, 1910  
Field Identifier: 96

Map Locality Number: 75; USGS Mesozoic Locality: 7050.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
S of mouth of Garzas Cr on SW slope 800' hill.  
Elevation: 800 ft, 244 m;  
Township: 8S; Range: 8E; Section: 19; NE quarter  
Collector: R. W.Pack, 1910  
Field Identifier: 97

Map Locality Number: 75; USGS Mesozoic Locality: 7051.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
S of mouth of Garzas Cr on SW slope 800' hill.  
Elevation: 800 ft, 244 m;  
Township: 8S; Range: 8E; Section: 19; NE quarter  
Collector: R. W.Pack, 1910  
Field Identifier: 98

Map Locality Number: 76; USGS Mesozoic Locality: M8641.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
West side of saddle on ridge west of Whitney Canyon near mouth.  
Elevation: 400 ft, 122 m;  
Township: 8S; Range: 8E; Section: 20; Ctr W line NW/NW/NW quarter  
Collector: A. Bennison & W. Elder, 1989  
Field Identifier: 89E-31

Map Locality Number: 77; USGS Mesozoic Locality: M8642.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
East side of saddle on ridge west of Whitney Canyon near mouth.  
Elevation: 400 ft, 122 m;  
Township: 8S; Range: 8E; Section: 20; NW\NW\NW quarter  
Collector: A. Bennison & W. Elder, 1989  
Field Identifier: 89E-32

Map Locality Number: 78; USGS Mesozoic Locality: 9401.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
South of Garzas Cr. in Whitney Canyon.  
Elevation: 500 ft, 152 m;  
Township: 8S; Range: 8E; Section: 20; W line quarter  
Collector: T. W. Stanton, 1916  
Field Identifier: 1786

Map Locality Number: 78; USGS Mesozoic Locality: 9402.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
South face of hill south of Garzas Creek.  
Elevation: 500 ft, 152 m;  
Township: 8S; Range: 8E; Section: 20; ctr W sec. line  
Collector: T. W. Stanton, 1916  
Field Identifier: 1787

Map Locality Number: 78; USGS Mesozoic Locality: M8530.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
Sandstone beds outcropping in 1st gully NW of hill 670.  
Latitude: 37 degrees 13.56' N; Longitude: 121 degrees 7.21' W;  
Township: 8S; Range: 8E; Section: 20; SW/SW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88ES-1

Map Locality Number: 78; USGS Mesozoic Locality: M8531.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
Sandstone beds outcropping in 2nd gully NW of hill 670.  
Latitude: 37 degrees 13.58' N; Longitude: 121 degrees 7.27' W;  
Township: 8S; Range: 8E; Section: 20; SW/SW/NW quarter  
Collector: W. P. Elder, 1988  
Field Identifier: 88ES-2, 88ES-1

Map Locality Number: 79; USGS Mesozoic Locality: 7047.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
Between Garzas & Quinto Crs. on SW slope of 700 ft. hill.  
Elevation: 8 ft, 2 m;  
Township: 8S; Range: 8E; Section: 20; S of sec. ctr.  
Collector: R. W. Pack, 1910  
Field Identifier: 94

Map Locality Number: 80; USGS Mesozoic Locality: 7048.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
SE of mouth of Garzas Cr. SE slope 700' hill N of Herman Gulch.  
Elevation: 700 ft, 213 m;  
Township: 8S; Range: 8E; Section: 20; Near Sec. ctr.  
Collector: R. W.Pack, 1910  
Field Identifier: 95

Map Locality Number: 81; USGS Mesozoic Locality: 7046.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
Between Garzas & Quinto Crs. S side of 800 ft. hill.  
Elevation: 8 ft, 2 m;  
Township: 8S; Range: 8E; Section: 29; NE quarter  
Collector: R. W.Pack, 1910  
Field Identifier: 93

Map Locality Number: 82; USGS Mesozoic Locality: 7045.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
Between Quinto & Garzas Crs. on top of Ridge.  
Elevation: 825 ft, 252 m;  
Township: 8S; Range: 8E; Section: 29; SW quarter  
Collector: R. W.Pack, 1910  
Field Identifier: 92

Map Locality Number: 83; USGS Mesozoic Locality: 9403.  
California, Howard Ranch 1:24000 quadrangle.  
Stanislaus County.  
North of Mustang Gulch.  
Elevation: 500 ft, 152 m;  
Township: 8S; Range: 8E; Section: 28; SW quarter  
Collector: T. W. Stanton, 1916  
Field Identifier: 1788

Map Locality Number: 84; USGS Mesozoic Locality: 7044.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
Between Quinto & Garzas Crs. on east flank of ridge.  
Elevation: 400 ft, 122 m;  
Township: 9S; Range: 8E; Section: 3; Near Sec. Ctr.  
Collector: R. W.Pack, 1910  
Field Identifier: 91



Map Locality Number: 85; USGS Mesozoic Locality: 7043.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
N side of Quinto Cr. Small 300 ft knoll.  
Elevation: 300 ft, 91 m;  
Township: 9S; Range: 8E; Section: 11; Near Sec. ctr.  
Collector: R. W. Pack, 1910  
Field Identifier: 90

Map Locality Number: 86; USGS Mesozoic Locality: 6978.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
South end of ridge west of Howard Ranch.  
Elevation: 700 ft, 213 m;  
Township: 9S; Range: 8E; Section: 16; SW quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 25

Map Locality Number: 87; USGS Mesozoic Locality: 6992.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
Top of hill at south side of mouth of Quinto Creek.  
Elevation: 600 ft, 183 m;  
Township: 9S; Range: 8E; Section: 14; SW quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 39

Map Locality Number: 88; USGS Mesozoic Locality: 6990.  
California, Howard Ranch 1:24000 quadrangle.  
Merced County.  
South end of low hills north of Romero Creek.  
Elevation: 400 ft, 122 m;  
Township: 9S; Range: 8E; Section: 23; Ctr. S Sec. line  
Collector: E. L. Ickes, 1910  
Field Identifier: 37

Map Locality Number: 89; USGS Mesozoic Locality: 6991.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
South end of small point on north side of mouth of Romero Creek.  
Elevation: 200 ft, 61 m;  
Township: 9S; Range: 8E; Section: 26; Ctr E Sec. half  
Collector: E. L. Ickes, 1910  
Field Identifier: 38

Map Locality Number: 90; USGS Mesozoic Locality: 6977.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Hill east of inlet of Calif Aqueduct.  
Elevation: 500 ft, 152 m;  
Township: 9S; Range: 8E; Section: 34; NW/SE quarter  
Collector: R. W. Pack & J. C. Gester, 1910  
Field Identifier: 24

Map Locality Number: 91; USGS Mesozoic Locality: 9404.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Between Romero & San Luis Creeks.  
Elevation: 400 ft, 122 m;  
Township: 10S; Range: 8E; Section: 3; NE quarter  
Collector: T. W. Stanton, 1916  
Field Identifier: 1789

Map Locality Number: 92; USGS Mesozoic Locality: M8649A.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Clast? in conglomerate on N nose of hill 443.  
Elevation: 380 ft, 116 m;  
Township: 10S; Range: 8E; Section: 24; SW\NEN\NW quarter  
Collector: A. Bennison & W. Elder, 1990  
Field Identifier: 90E-7A

Map Locality Number: 92; USGS Mesozoic Locality: M8649B.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Clast? in conglomerate on N nose of hill 443.  
Elevation: 390 ft, 119 m;  
Township: 10S; Range: 8E; Section: 24; SW\NEN\NW quarter  
Collector: A. Bennison & W. Elder, 1990  
Field Identifier: 90E-7B

Map Locality Number: 92; USGS Mesozoic Locality: M8649C.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Clast? in conglomerate on N nose of hill 443.  
Elevation: 390 ft, 119 m;  
Township: 10S; Range: 8E; Section: 24; SW\NEN\NW quarter  
Collector: A. Bennison & W. Elder, 1990  
Field Identifier: 90E-7C

Map Locality Number: 92; USGS Mesozoic Locality: M8649D.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Clast? in conglomerate on N nose of hill 443.  
Elevation: 390 ft, 119 m;  
Township: 10S; Range: 8E; Section: 24; SW\NENW quarter  
Collector: A. Bennison & W. Elder, 1990  
Field Identifier: 90E-7D

Map Locality Number: 93; USGS Mesozoic Locality: M8646.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Gritty SS on nose of hill 765 on center line of section 27.  
Elevation: 530 ft, 162 m;  
Township: 10S; Range: 8E; Section: 27; NE\NWSE quarter  
Collector: A. Bennison & W. Elder, 1989  
Field Identifier: 89E-33

Map Locality Number: 94; USGS Mesozoic Locality: M8647.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Gritty base of SS turbidite on NE nose of Quien Sabe Point.  
Elevation: 430 ft, 131 m;  
Township: 10S; Range: 8E; Section: 29 extended; NE/NW quarter  
Collector: A. Bennison & W. Elder, 1990  
Field Identifier: 90E-10

Map Locality Number: 94; USGS Mesozoic Locality: M8648.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Clast in conglomerate on NE nose of Quien Sabe Point.  
Elevation: 420 ft, 128 m;  
Township: 10S; Range: 8E; Section: 29 extended; NE/NW quarter  
Collector: W. P. Elder, 1990  
Field Identifier: 90E-9

Map Locality Number: 95; USGS Mesozoic Locality: 6965.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Hill SW of triangulation station Bareillas.  
Elevation: 1271 ft, 388 m;  
Township: 10S; Range: 8E; Section: 36; NE/NE quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 12

Map Locality Number: 95; USGS Mesozoic Locality: 6966.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
Hill SW of triangulation station Bareillas.  
Elevation: 1271 ft, 388 m;  
Township: 10S; Range: 8E; Section: 36; NE/NE quarter  
Collector: E. L. Ickes, 1910  
Field Identifier: 13

Map Locality Number: 96; USGS Mesozoic Locality: 6961.  
California, San Luis Dam 1:24000 quadrangle.  
Merced County.  
On dirt road east of Billie Wright Road.  
Elevation: 950 ft, 290 m;  
Township: 11S; Range: 8E; Section: 2; Ctr. W Sec. line  
Collector: R. W. Pack, 1911  
Field Identifier: 8

Map Locality Number: 97; USGS Mesozoic Locality: M1114.  
California, Crevison Peak 1:24000 quadrangle.  
Stanislaus County.  
Nose of small hill 0.3 mi up small gully N of Quinto Cr.  
Elevation: 600 ft, 183 m;  
Township: 9S; Range: 7E; Section: 12; NW/NE/NE quarter  
Collector: D. L. Jones, 1961  
Field Identifier: -?-

Map Locality Number: 98; USGS Mesozoic Locality: M7673.  
California, Copper Mountain 1:24000 quadrangle.  
Stanislaus County.  
Del Puerto Canyon Road.  
Elevation: 760 ft, 232 m;  
Township: 6S; Range: 6E; Section: 3; NW/SW quarter  
Collector: M. C. Blake, 1982  
Field Identifier: None

Map number	Locality identifier	Quadrangle abbreviation	Age	Bivalve indeterminate	<i>Buchia</i> sp.	<i>Buchia elderensis</i> (Anderson)	<i>Buchia fischeriana</i> (d'Orbigny)	<i>Buchia inflata</i> (Toulle)	<i>Buchia keyserlingi</i> (Lahusen)	<i>Buchia pacifica</i> (Jelezky)	<i>Buchia piochii</i> (Gabb)	<i>Buchia uncioides</i> (Pavlow)	<i>Glycymeris? ovatus</i> (Stanton)	<i>Lima</i> sp.	<i>Parvanusium</i> sp.	<i>Berriasselle</i> ( <i>Paradonoceras?</i> ) sp.	<i>Berriassellid</i>	<i>Groebrioceras baileyi</i> Imray and Jones	<i>Lytioceras aulaeum</i> Anderson	<i>Paradonoceras reedi</i> Anderson	<i>Spiticeras</i> sp.	Belemnite indeterminate	Serpulid
1	M6372	CR	L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
1	M6373	CR	?	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	M6371	CR	M - L Tith	—	—	x	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
3	M1807	CR	Val	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—
4	M6370	CR	M - L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
5	M6633	SJ	M - L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
6	M5679	LO	M - L Tith?	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—	—
7	M6632	LO	L Tith	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	M5666	LG	Val	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	M8651	LG	Val	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	M5364	LG	Berr?	—	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—
9	M8654	LG	Tith?	—	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—
9	M8656	LG	Berr?	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—	—
10	M5365	LG	Val	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—
11	M5366	LG	Val	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—
21	M8527	LP	M - L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
22	M8526	LP	M - L Tith	—	—	—	—	—	—	—	x	—	x	x	x	x	—	—	—	—	—	—	—
26	M5362	MM	Berr	—	—	—	—	—	—	—	—	qf.	—	—	—	—	—	—	—	x	—	—	—
26	M5389	MM	Val	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—
27	M5358	MM	Berr?	—	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—
28	M5359	MM	Ox - Val	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	M6091	LP	Berr?	—	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—
30	M5524	MM	Berr	—	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—
32	M5530	MM	M - L Tith	—	—	x	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
33	M8655	LG	Val?	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—	—	—
34	M8652	LG	Val	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	M8653	LG	Val	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	M8657	LG	Val	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	M5794	MD	Ox - Val	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
36	M6103	MH	L Berr - M Val	x	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39	M5074	GI	Ox - Val	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	M5075	GI	M - L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
41	M6088	GI	M - L Tith	—	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—
67	M5528	CV	M - L Tith	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
68	M8556	CV	Tith & Val (Mix)	—	—	—	—	—	x	x	x	—	—	—	—	—	—	—	aff.	—	—	x	—
68	M8559	CV	Berr	—	?	—	—	—	—	—	—	—	—	—	—	—	?	?	—	—	—	—	—
70	M5527	CV	M - L Tith	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
72	M8563	CV	M - L Tith	—	—	—	—	—	—	x	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 1. Checklist of Late Jurassic through Valanginian localities and macrofossils present in the San Jose 1:100,000 map sheet.

by

WILLIAM P. ELDER AND JOHN W. MILLER

1990

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