



Source of Mapping: Yerkes, 1972; Tan, 1988 Digital preparation by: Michael L. Dawson, Tim O'Brien	Source of Mapping: Durham and Yerkes, 1964; Tan, 1988 Digital preparation by: Kelly R. Ruppert, Michael L. Dawson	Source of Mapping: Durham and Yerkes, 1964; Tan, 1988; McCulloh, T.H., unpublished mapping, 1996; Morton, D.M., unpublished mapping, 1997 Digital preparation by: Michael L. Dawson, Tim O'Brien	Source of Mapping: Morton and Gray, 2002 Digital preparation by: Michael L. Dawson, Tim O'Brien	Source of Mapping: Morton and Cox, 2001b Digital preparation by: Rachel M. Hauser, Diane Burns	Source of Mapping: Morton and Cox, 2001a Digital preparation by: Michael L. Dawson, Tim O'Brien	Source of Mapping: Morton and Matti, 2001d Digital preparation by: Michael L. Dawson, Tim O'Brien	Source of Mapping: Matti, J.C., unpublished mapping, 1973-1974, 1996-1997; Morton, D.M., unpublished mapping, 1995-1997 Digital preparation by: Michael L. Dawson, Gary W. Patt
Source of Mapping: Morton and Miller, 1981; Eckmann and others, 1919 Digital preparation by: Rachel M. Hauser	Source of Mapping: Tan, 1995; Eckmann and others, 1919 Digital preparation by: Kelly R. Ruppert, Teddy Bunyapanasarn	Source of Mapping: Schoellhamer and others, 1981; Morton and Miller, 1981; Morton, D.M., unpublished mapping, 1996 Digital preparation by: Kelly R. Ruppert, Roland Hall	Source of Mapping: Gray and others, 2002 Digital preparation by: Tim O'Brien, Kelly R. Ruppert	Source of Mapping: Morton and Weber, 2001 Digital preparation by: Rachel M. Hauser	Source of Mapping: Morton, 2001 Digital preparation by: Rachel M. Hauser, Michael L. Dawson	Source of Mapping: Morton, 2003c Digital preparation by: Rachel M. Hauser, Tim O'Brien	Source of Mapping: Morton and Matti, 2001c Digital preparation by: Rachel M. Hauser, Kelly R. Ruppert
Source of Mapping: Morton and Miller, 1981; Vedder, 1975; Eckmann and others, 1919 Digital preparation by: Michael L. Dawson, Diane Burns	Source of Mapping: Morton and Miller, 1981; Eckmann and others, 1919; Vedder, 1975 Digital preparation by: Rachel M. Hauser, Diane Burns	Source of Mapping: Morton and Miller, 1981; Eckmann and others, 1919 Digital preparation by: Catherine Koukladas, Melinda C. Wright	Source of Mapping: Morton and Miller, 1981; Morton, D.M., unpublished mapping, 1997 Digital preparation by: Kelly R. Ruppert, Michael L. Dawson	Source of Mapping: Greenwood, 1992; Weber, 1976; Morton and Miller, 1981; Morton, D.M., unpublished mapping, 1996 Digital preparation by: Melinda C. Wright, Diane Burns	Source of Mapping: Morton and Weber, 2003 Digital preparation by: Rachel M. Hauser, Diane Burns	Source of Mapping: Morton, 2003a Digital preparation by: Kelly R. Ruppert, Greg Morton	Source of Mapping: Morton, 2003b Digital preparation by: Gary W. Patt, Kelly R. Ruppert
Source of Mapping: Morton and Miller, 1981; Vedder, 1975 Digital preparation by: Kelly R. Ruppert, Roland Hall	Source of Mapping: Morton and Miller, 1981; Vedder, 1975 Digital preparation by: Kelly R. Ruppert, Roland Hall	Source of Mapping: Morton and Miller, 1981; Vedder, 1975 Digital preparation by: Kelly R. Ruppert, Roland Hall	Source of Mapping: Morton and Miller, 1981; Morton, D.M., unpublished mapping, 1996 Digital preparation by: Rachel M. Hauser, Kelly R. Ruppert	Source of Mapping: Hauser, R.M. and Morton, D.M., 1996; Morton, D.M., unpublished mapping, 1996; Morton and Miller, 1981 Digital preparation by: Rachel M. Hauser, Roland Hall	Source of Mapping: Kennedy, 1977; Hauser, R.M. and Morton, D.M., unpublished mapping, 1996 Digital preparation by: Rachel M. Hauser, Fernando H. Keller	Source of Mapping: Kennedy and Morton, 2003 Digital preparation by: Diane Burns, Greg Morton	Source of Mapping: Morton and Kennedy, 2003 Digital preparation by: Diane Burns, Rachel M. Hauser

UNPUBLISHED MAPPING
(San Bernardino quadrangle)

- **Ontario**—Morton, D.M. and Matti, J.C., Mapping and aerial photograph interpretation done 1990-1999. U.S. Geological Survey, scale, 1:24,000
- **Guasti**—Morton, D.M. and Matti, J.C., Mapping and aerial photograph interpretation done 1990-1999. U.S. Geological Survey, scale, 1:24,000
- **Fontana**—Morton, D.M., Mapping and aerial photograph interpretation done 1990-1999. U.S. Geological Survey, scale, 1:24,000
- **San Bernardino South**—Morton, D.M. and Matti, J.C., Mapping and aerial photograph interpretation done 1990-1999. U.S. Geological Survey, scale, 1:24,000
- **Azusa**—Morton, D.M., U.S. Geological Survey, mapping done 1990-1997, scale, 1: 24,000; Nourse, J.A., California State Polytechnic University, Pomona, mapping done 1997-2001, scale, 1:24,000
- **Glendora**—Morton, D.M., U.S. Geological Survey, mapping done 1990-1997, scale, 1: 24,000; Nourse, J.A., California State Polytechnic University, Pomona, mapping done 1997-2001, scale, 1:24,000
- ② ----- **Glendora**—Bezore, S.P., California Geological Survey, mapping done 1997-1999, scale, 1:24,000. Compiled area also includes published mapping by Shelton, J.S. 1955
- **Mount Baldy**—Morton, D.M., U.S. Geological Survey, mapping done 1988-1999, scale, 1: 24,000; Nourse, J.A., California State Polytechnic University, Pomona, mapping done 1997-2001, scale, 1:24,000; Ehlig, P.L., mapping done 1955-2001, scale, 1:24,000
- ④ ----- **Mount Baldy**—Morton, D.M., Matti, J.C., U.S. Geological Survey, mapping done 1988-1999, scale, 1:24,000
- **San Bernardino North**—Matti, J.C., Quaternary mapping done 2000. U.S. Geological Survey, scale, 1: 24,000. (not included in published map)
- **Harrison Mtn**—Miller, F.K., Morton, D.M., and Matti, J.C., Mapping done 1988-1999, 2000-2001. U.S. Geological Survey, scale, 1:24,000
- **Keller Peak**—Miller, F.K., Morton, D.M., and Matti, J.C., Mapping done 1988-1999, 2000-2001. U.S. Geological Survey, scale, 1:24,000
- **Crystal Lake**—Ehlig, P.L., mapping done 1955-1985, California State University, Los Angeles, scale 1:24,000; Nourse, J.A., mapping done 1996-2001, California State Polytechnic University, Pomona, scale, 1:24,000; Morton, D.M., U.S. Geological Survey, mapping done 1990-1997, scale, 1:24,000
- **Mount San Antonio**—Ehlig, P.L., mapping done 1955-1985, California State University, Los Angeles, scale 1:24,000; Nourse, J.A., mapping done 1996-2001, California State Polytechnic University, Pomona, scale, 1:24,000; Morton, D.M., U.S. Geological Survey, mapping done 1990-1997, scale, 1:24,000
- ① ----- **Mount San Antonio**—Morton, D.M., U.S. Geological Survey, mapping done 1980-1990, scale, 1:24,000
- **Cajon**—Morton, D.M., U.S. Geological Survey, mapping done 1980-1999, scale, 1:24,000
- ③ ----- **Silverwood Lake**—Miller, F.K. and Morton, D.M., mapping done 1996-2001, U.S. Geological Survey, scale, 1:24,000
- **Lake Arrowhead**—Miller, F.K., reconnaissance mapping done 2000-2001, U.S. Geological Survey, scale, 1:24,000
- **Juniper Hills**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Valyermo**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Mescal Creek**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Phelan**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Baldy Mesa**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Hesperia**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000
- **Apple Valley South**—Morton, D.M. and Miller, F.K., reconnaissance mapping and air photo interpretation done 1999-2001, U.S. Geological Survey, scale, 1:24,000

Figure 4. Data sources used for compilation of the San Bernardino and Santa Ana 30' X 60' quadrangles, and GIS specialists responsible for digital work in each area. All references to published maps are listed in the reference section of the geologic report. All published map sources are outlined by very short dashed red lines (-----). Irregularly shaped areas of unpublished mapping in the San Bernardino quadrangle are outlined by color coded boundaries shown in the explanation above.