U.S. Department of the Interior
U.S. Geological Survey

Scientific Investigations Map 3435
Pamphlet to accompany sheet

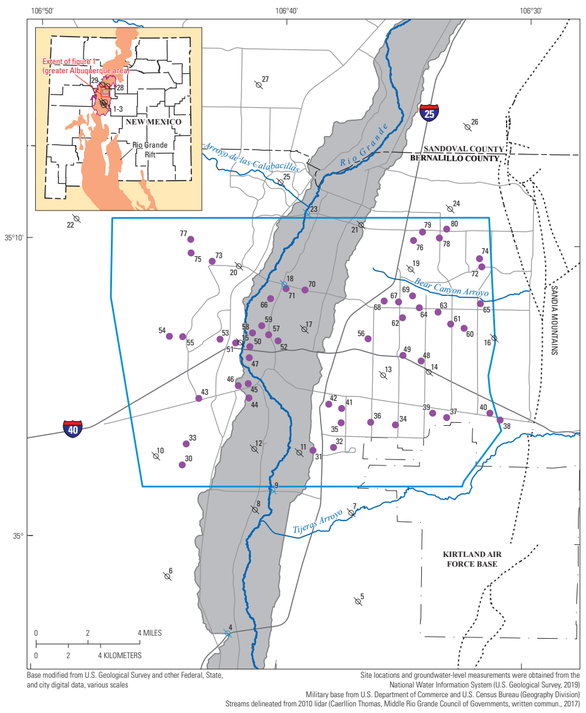

Figure 1. Study area in the greater Albuquerque area, central New Mexico. Extent of Rio Grande Rift modified from Hudson and Grauch (2013).

EXPLANATION

- Study area
- Middle Rio Grande Basin from Plummer and others (2012)
- Rio Grande inner valley as modified from McAda and Barroll (2002)

Estimated change in groundwater elevation, in feet

- –30 to –20 "decline"
- –19.9 to –10 "decline"
- –9.9 to 0 "decline"
- 0.1 to 10 "rise"
- 10.1 to 20 "rise"
- 20.1 to 30 "rise"
- 30.1 to 40 "rise"

- Major fault (concealed and exposed) as identified by Connell (2006) and Minor and Hudson (2006)
- Rio Grande difference point

Wells

- Primary use of well is for observation
- Primary use of well is for observation; also used to estimate vertical groundwater elevation difference between the Rio Grande alluvial aquifer and the production zone of the Santa Fe Group aquifer system
- Primary use of well is for observation; data not available to calculate change
- Production well
- Production well; data not available to calculate change
- Production well; estimated change in groundwater elevation is obscured by well symbol; therefore, symbol fill shows estimated change in groundwater elevation of –9.9 to 0 "decline"

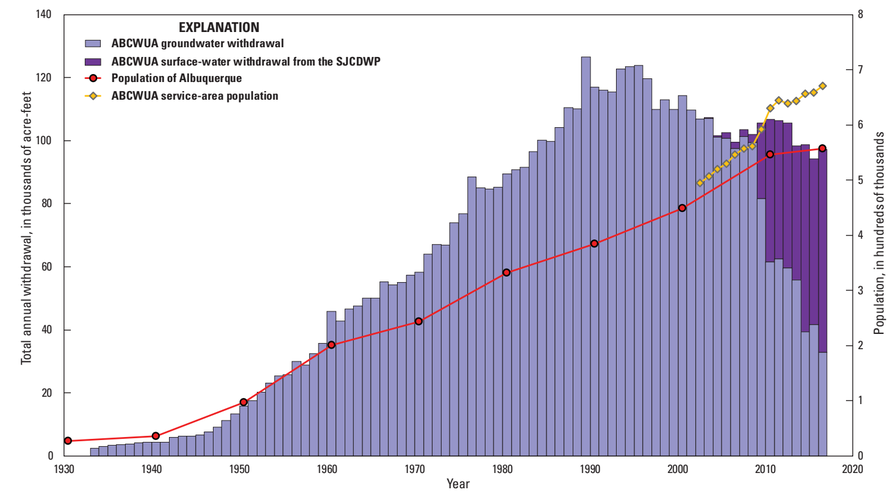

Figure 2. Groundwater withdrawals, 1933–2016; surface-water withdrawals as part of the San Juan-Chama Drinking Water Project (SJCDWP), 2004–16; population in Albuquerque, New Mexico, 1930–2016; and the Albuquerque Bernalillo County Water Utility Authority (ABCWUA) service-area population, 2002–16 (adapted from Galanter and Curry, 2019; population data from U.S. Census Bureau (1952, 1973, 1982, 2012, 2019); groundwater-withdrawal, surface-water-withdrawal, and ABCWUA service-area population data from the ABCWUA (Katherine Yuhas, ABCWUA, written commun., 2018). The ABCWUA serves water to the City of Albuquerque and surrounding areas of Bernalillo County.

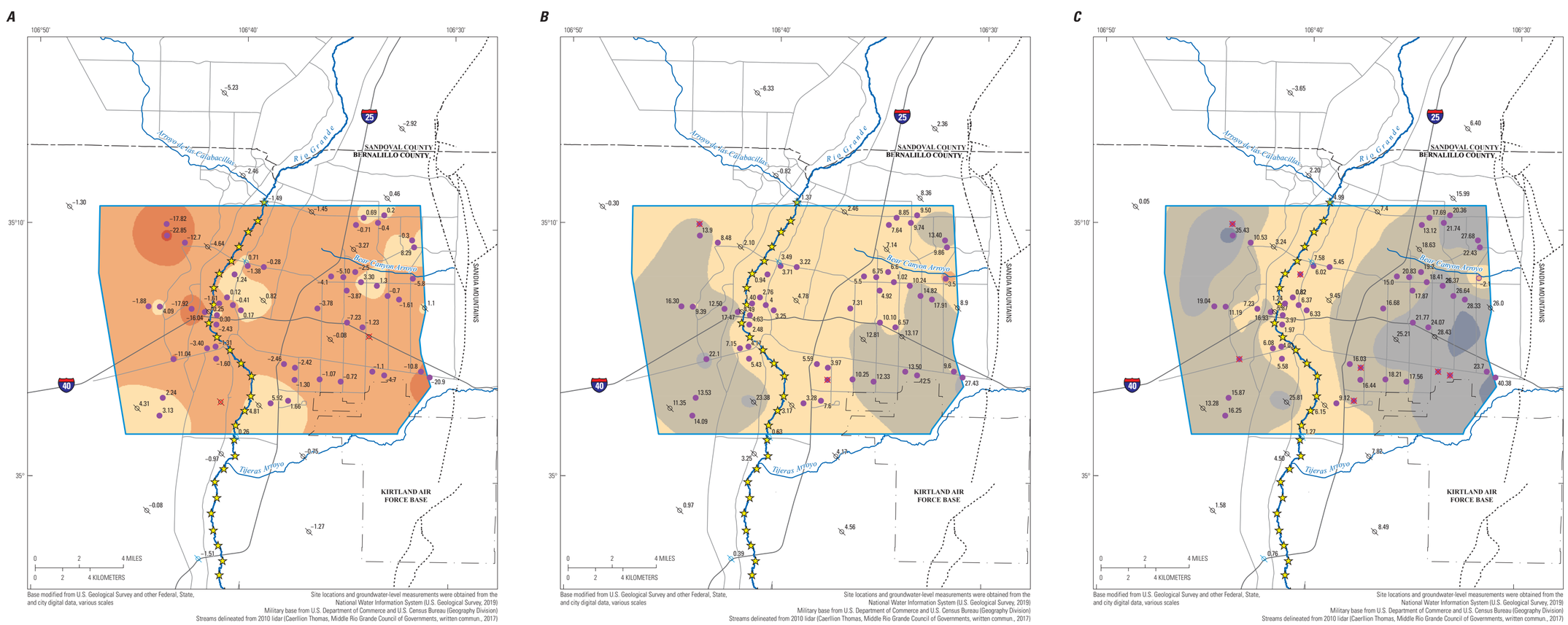

Figure 3. Groundwater-level change and data supporting map construction for the periods *A*, 2002–8, *B*, 2008–12, and *C*, 2008–16 for the production zone of the Santa Fe Group aquifer system in the greater Albuquerque area, central New Mexico.

Groundwater-Level Change for the Periods 2002–8, 2008–12, and 2008–16 in the Santa Fe Group Aquifer System in the Albuquerque Area, Central New Mexico

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2019

Printed on recycled paper
ISSN 2329-1311 (print)
ISSN 2329-132X (online)
https://doi.org/ 10.3133/sim3435
ISBN 978-1-4113-4323-8