

# A bibliography of publications\* related to Arizona sand and gravel deposits, 1960-2008

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## Introduction

The Arizona Geological Survey (AZGS) produces a variety of maps, reference materials, tools, and reports that identify and characterize geologic resources in Arizona. These resources include minerals (metallic, non-metallic, industrial), energy resources (coal, oil, gas, geothermal), water, and other rock-related products. The rapidly expanding population in Arizona is leading to not only increased demands for aggregate to support construction of infrastructure, homes, and industry, but also to an increased need to identify the locations of these key resources for effective land-use planning. This bibliography is a listing of reports, maps, other reference materials and tools available through AZGS that can be used to help identify and locate potential and known sand and gravel deposits.

## Organization

For ease of navigation, the data in this document have been organized into separate tables. **Table 1** contains publications that are bibliographies, references, or indices of maps, geology, and mineral resources. Many of these are invaluable as a basic approach to locating more specific targets. **Table 2** contains publications that can be used as tools to support identification and location of potential and known resources, as well as general modeling parameters. **Table 3** contains a list of area-specific geologic maps that are geared towards identification of young (Quaternary  $\leq 1.8\text{My}$ ) surficial geology (which include stream channels and alluvial fans) where sand and gravel deposits are typically found.

Area-specific geologic maps, which are usually organized by quadrangle name, can be found online through AZGEOBIB: or through:

**Table 1.** List of publications that serve as bibliographies, indices, or references.

Publication #	Title	Author 1	Author 2	Year
B-173	Bibliography of the geology and mineral resources of Arizona, 1848-1964	Moore, R.T.	Wilson, E.D.	1965
B-190	Bibliography of the geology and mineral resources of Arizona, 1965-1970	Vuich, J.S.	Wilt, J.C.	1974
DI-9	Arizona geologic index map	Kneale, S.M.	Richard, S.M.	1998
M-17	Index of published geologic maps of Arizona, 1903-1982	Scarborough, R.B.	Coney, M.L.	1982
M-31	Index of published geologic maps of Arizona, 1982 to mid-1993	Harris, R.C.	et al.	1994
NP39-(D49)	Directory of active mines in Arizona 2001-2	Phillips, K.	et al.	2002
NP98-(D51)	Directory of active mines	Niemuth, N.J.	et al.	2007

\*Published by, or otherwise available at, AZGS.

<b>NP98-(D51)</b>	Directory of active mines	Niemuth, N.J.	et al.	2007
<b>OFR-03-06</b>	Is asbestos present in Agua Fria River sand and gravel?	Harris, R.C.		2003
<b>OFR-03-06</b>	Is asbestos present in Agua Fria River sand and gravel?	Harris, R.C.		2003
<b>OFR-93-19</b>	Index to geologic maps in the Mesa 1x2 degree quadrangle, Arizona	Skotnicki, S.J.		1993
<b>OFR-93-19</b>	Index to geologic maps in the Mesa 1x2 degree quadrangle, Arizona	Skotnicki, S.J.		1993
<b>OFR-95-2a</b>	Map showing names and outlines of physiographic areas in Arizona used by AZGS with comprehensive base map	Trapp, R.A.	Reynolds, S.J.	1995
<b>OFR-95-2a</b>	Map showing names and outlines of physiographic areas in Arizona used by AZGS with comprehensive base map	Trapp, R.A.	Reynolds, S.J.	1995
<b>OFR-95-2b</b>	Map showing names and outlines of physiographic areas in Arizona used by AZGS with base map showing township and range only	Trapp, R.A.	Reynolds, S.J.	1995
<b>OFR-96-6</b>	AZGEOBIB V.2.1 with physiographic area index	Trapp, R.A.		1996

**Table 2.** List of publications that contain basic tools and information related to sand and gravel in Arizona.

<b>Publication #</b>	<b>Title</b>	<b>Author 1</b>	<b>Author 2</b>	<b>Year</b>
<b>AGS-17</b>	Geologic evolution of Arizona	Jenney, J.P. [ed]	Reynolds, S.J. [ed]	1989
<b>B-171</b>	A resume of the geology of Arizona	Wilson, E.D.	E.D.	1962
<b>B-180</b>	Geology and mineral resources of Arizona	U.S. Geological Survey	et al.	1969
<b>B-195</b>	Geology and mineral resources of the Buckskin and Rawhide Mountains, west-central Arizona	Spencer, J.E. [ed]	Reynolds, S.J. [ed]	1989
<b>DGM-17</b>	Digital graphics files for the geologic map of Arizona, a representation of AZGS Map 35	Richard, S.M.	et al.	2002
<b>DGM-52</b>	Estimated depth to bedrock in Arizona	Richard, S.M.	et al.	2007
<b>DI-2</b>	AZWELL: A digital database of the AZGS well-cuttings repository	McGarvin, T.G.	Trapp, R.A.	1994
<b>NP42-(SR12)</b>	Laws and regulations governing mineral rights in Arizona	Verity, V.H.	Clark, L.D.	1998
<b>NP44-(MR4)</b>	Arizona industrial minerals	Phillips, K.		1987
<b>NP47-(OFR91-8)</b>	Pumice and pumicite in Arizona	Hoffer, J.M.		1991
<b>NP49-(OFR93-12)</b>	Economic geology of the Sierra Estrella, Maricopa and Pinal Counties, Arizona	Melchiorre, E.B.		1993
<b>OFR-93-2</b>	The AZGS core repository	Duncan, J.T.	Spencer, J.E.	1993
<b>OFR-99-9</b>	Geology of the Socorro Mine-White Marble Mine area, western Harquahala Mountains, west-central Arizona	Richard, S.M.		1999
<b>SP-4</b>	Proceedings of the 21st Forum on the Geology of Industrial Minerals	Peirce, H.W. [ed]		1987
<b>AGS-17</b>	Geologic evolution of Arizona	Jenney, J.P. [ed]	Reynolds, S.J. [ed]	1989
<b>B-171</b>	A resume of the geology of Arizona	Wilson, E.D.	E.D.	1962