

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was the Arizona State Plane central zone (FIPS ZONE 0202). The horizontal datum was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of files for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geospatial Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geospatial Survey website at <http://www.ngs.noaa.gov/> or contact the National Geospatial Survey at the following address:

NGS Information Services
 NOAA, NIMS12
 National Geospatial Survey
 SSMC-0 60202
 1315 East-West Highway
 Silver Spring, MD 20910-3262

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geospatial Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRM was derived from multiple sources. Base map imagery for eastern Pima County was provided in digital format by the Association of Governments. These data were developed at 1-foot Ground Sample Distance (GSD) from color aerial photography flown in 2002. Base map imagery for western Pima County was provided in digital format by the Association of Governments. These data were developed at 1-foot Ground Sample Distance (GSD) from color aerial photography flown in 2002. Base map imagery for the Coronado National Forest was provided in digital format by the National Geospatial Survey.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or dis-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

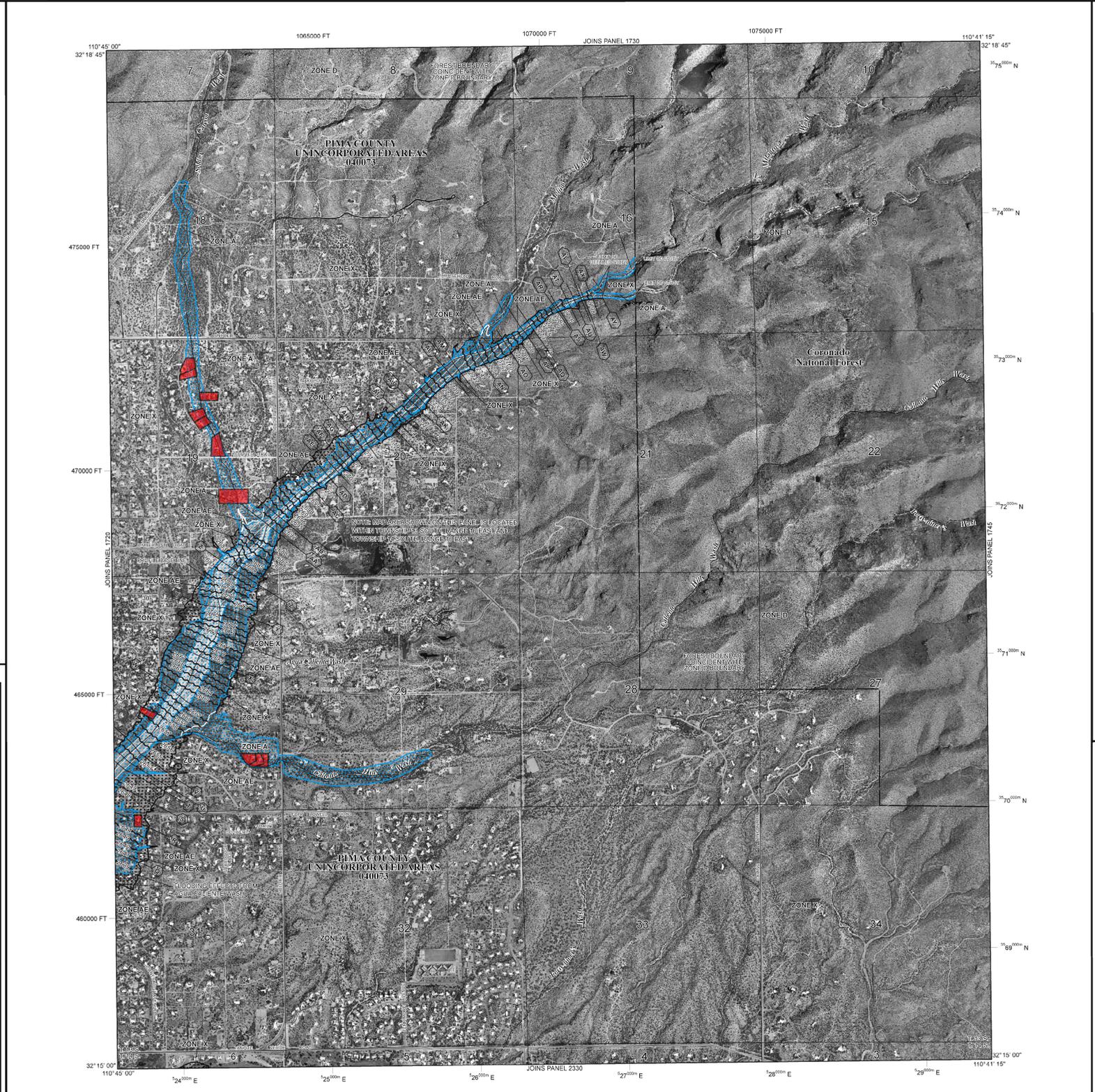
For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information Exchange at 1-877-FEMA-AMAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information Exchange.

Data added to Flood Insurance Rate Map by the Pima County Regional Flood Control District. Data reflects FEMA approved Map Amendments and Map Revisions effective after June 16, 2011. Modified April 10, 2014

- FEMA Floodplains**
- ZONE A
 - ZONE AH
 - ZONE AE
 - ZONE AO 1
 - ZONE AO 2
 - ZONE AO 3
 - ZONE AO 4
 - ZONE X - SHADED
 - ZONE X - UNSHADED
 - ZONE AO - ALLUVIAL FAN 1
 - ZONE AO - ALLUVIAL FAN 2
 - ZONE AO - ALLUVIAL FAN 3
 - ZONE AO - ALLUVIAL FAN 4

- BASE FLOOD ELEVATIONS
- CROSS SECTIONS
- STREAM PROFILE
- NFIP JURISDICTIONS
- LOMCs
- LOMRs
- FLOODWAY

The information depicted on this Product is the result of digital analyses performed on a variety of databases provided and maintained by one or more governmental agencies. LOMR shape file information was created from data supplied to the Pima County Regional Flood Control District (District) by FEMA's consultant, Michael Baker Jr. Inc. LOMC documentation is illustrated by the Special Flood Hazard Area. The District provides these Products with the understanding that they are not guaranteed to be accurate, correct or complete and conclusions drawn from the Products are the responsibility of the User. While every effort has been made to ensure the accuracy, correctness and timeliness of materials presented anywhere within the Products, the County and the District assume no responsibility for errors or omissions, even if the County or the District is advised of the possibility of such damage. This product is subject to the Pima County LTD GIS Disclaimer and Use Restrictions.



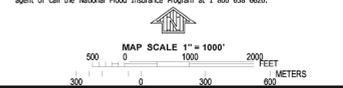
LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AP, V and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.
- ZONE A No Base Flood Elevations determined.
 - ZONE AE Base Flood Elevations determined.
 - ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
 - ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
 - ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
 - ZONE AP Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
 - ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
 - ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment to the 1% annual chance flood to avoid substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot and with drainage areas less than 1 square mile, and areas protected by levees from the 1% annual chance flood.

- OTHER AREAS**
- ZONE X AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
 - ZONE D AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
 - 0.2% annual chance floodplain boundary
 - Floodway boundary
 - Zone D boundary
 - CBRS and OPA boundary
 - Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

- Base Flood Elevation line and value; elevation in feet***
- (E1.987)
- Base Flood Elevation value where uniform within zone; elevation in feet
- * Referenced to the North American Vertical Datum of 1988 (NAVD 88)
- Cross section line
- Transsect line
- 91°07'30" 32°22'30"
- 47°50'00" N
- 1000-meter Universal Transverse Mercator grid ticks, zone 12
- 6000000 M
- 5000-foot grid ticks: Arizona State Plane coordinate system, central zone (FIPS ZONE 0203), Transverse Mercator
- DX5510
- Bench mark (see explanation in Notes to Users section of this FIS panel)
- M1.5
- River Mile
- MAP REPOSITORIES
- Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTY/STATE FLOOD INSURANCE RATE MAP
- February 9, 1999
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
- June 18, 2011
- 9/28/2012 - to change Base Flood Elevations, to add Special Flood Hazard Areas, to add levees, to change zone designations, to reflect updated topographic information, and to change floodways.
- For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
- To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6600.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1740M

FIRM FLOOD INSURANCE RATE MAP

PIMA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1740 OF 4750
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
PIMA COUNTY	06073	1740	M

MAP NUMBER 04019C1740M

MAP REVISED SEPTEMBER 28, 2012

Federal Emergency Management Agency