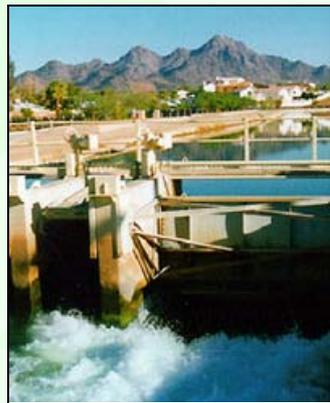
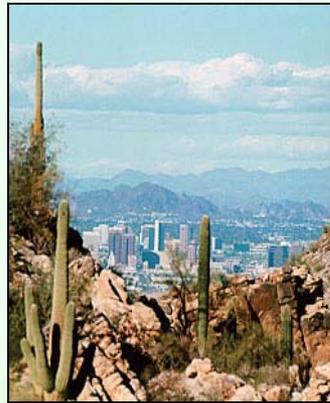


# 2009 Inventory of Unpaved Roads in the Maricopa County PM-10 Nonattainment Area

## MAG Management Committee

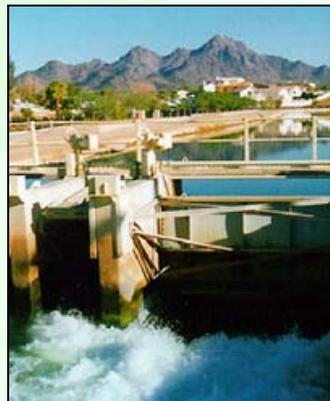
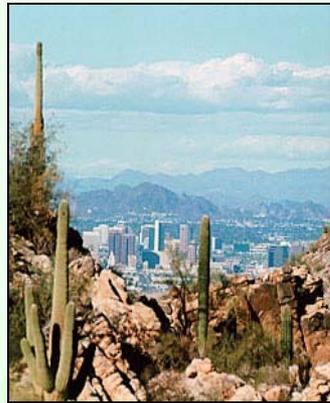
### November 18, 2009





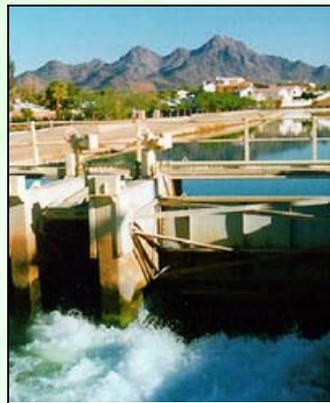
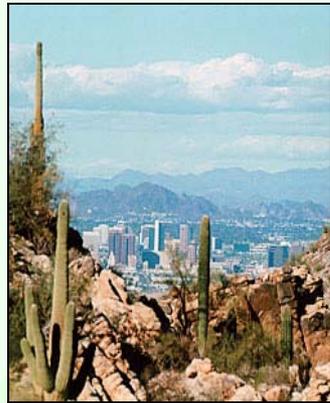
## Background

- One of 13 additional measures approved by the MAG Regional Council for the Suggested List of Measures to Reduce PM-10 (May 2007)
  - Requires MAG to conduct an annual inventory of dirt roads and traffic counts by jurisdiction
  - To measure progress in eliminating unpaved roads



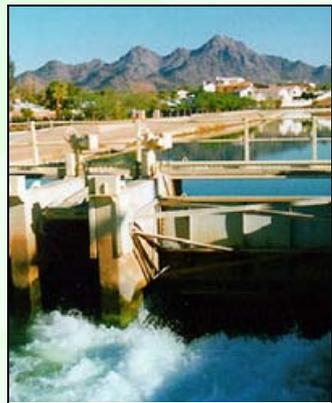
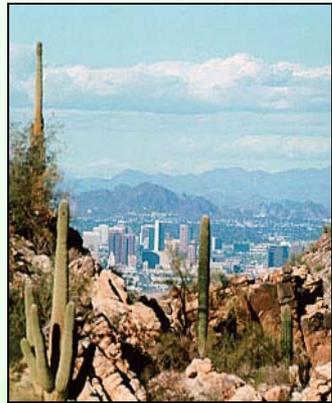
# Approach

- Identify unpaved roads using aerial photos and GIS data provided by member agencies
- Obtain traffic counts on unpaved roads
  - 2007 MAG study
  - 2009 Maricopa County DOT study
  - From other member agencies
- For roads without counts, estimate average daily traffic (ADT) based on the number of dwelling units
  - Conducted GIS analysis of aerial photos
  - 1 dwelling unit = 10 ADT (from the Texas Transportation Institute)



# Products

- **Database of public and private roads by agency of ownership**
  - **City, town, county, state, federal, or Indian community/nation**
  
- **Maps of public and private unpaved roads by jurisdiction**
  
- **Summary tables**
  - **Public and private unpaved road miles by jurisdiction**
  - **Miles of stabilized public unpaved roads**

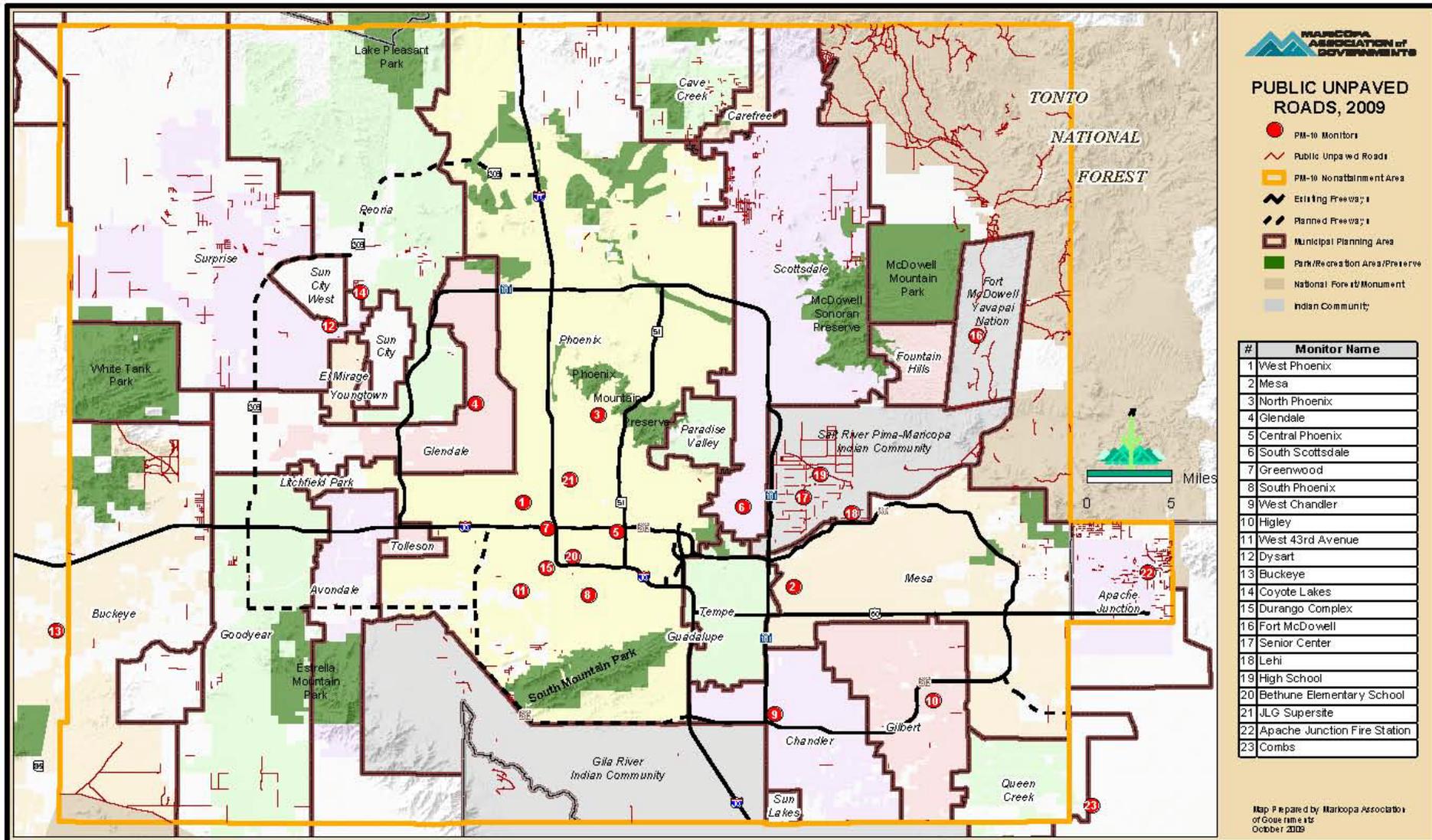


# 2009 Unpaved Roads in the PM-10 Nonattainment Area

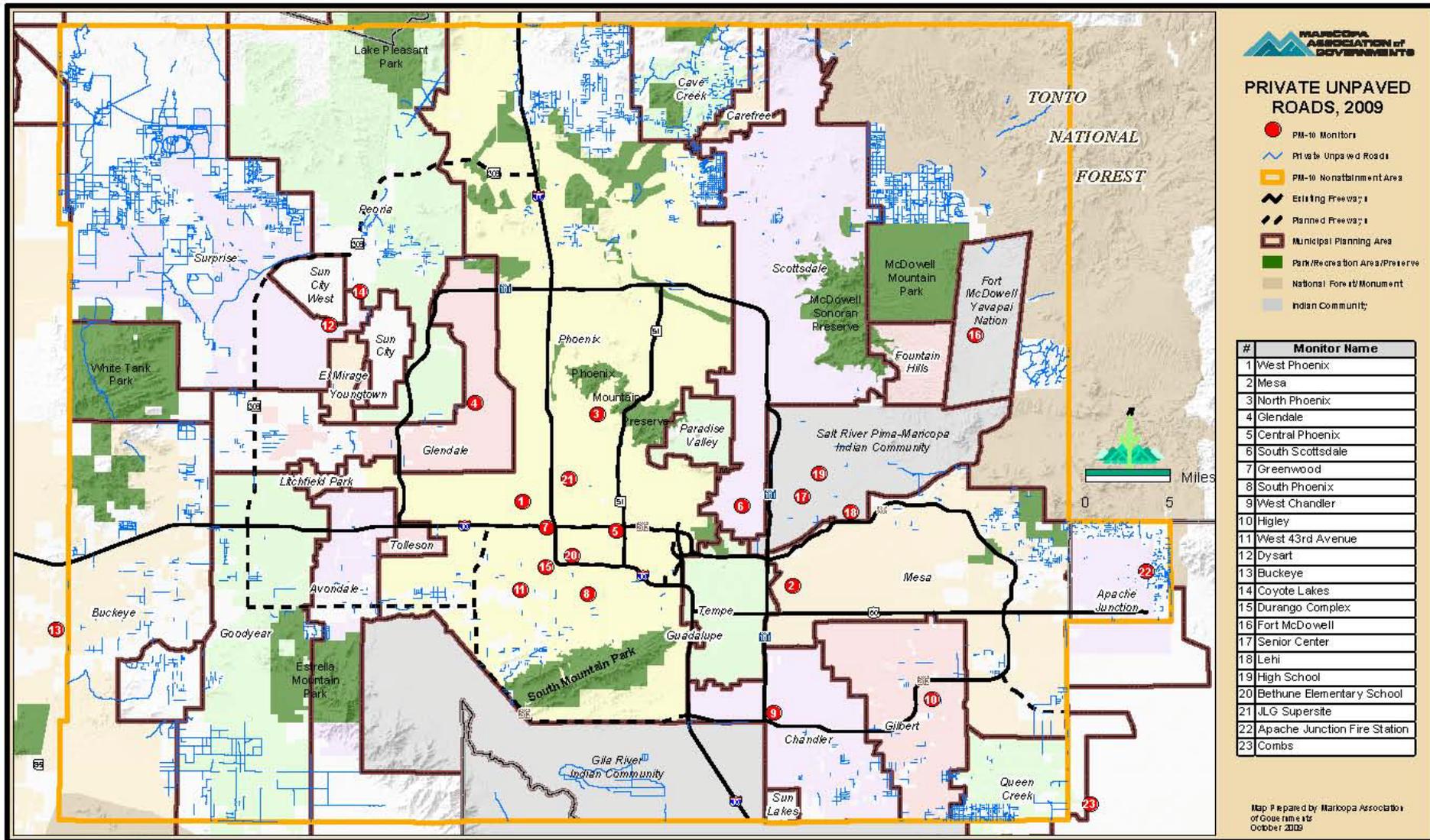
<u>Public Unpaved Roads</u>	<u>Miles</u>
Cities and Towns	186
Maricopa County (unincorporated)	90
Pinal County (unincorporated)	48
Federal Land	150
Arizona State Trust Land	43
Tribal Communities/Nations	<u>97</u>
<b>Total Public Unpaved Roads</b>	<b>613</b>

<u>Private Unpaved Roads</u>	<u>Miles</u>
Cities and Towns	255
Maricopa County (unincorporated)	937
Pinal County (unincorporated)	28
Federal Land	13
Tribal Communities/Nations	<u>38</u>
<b>Total Private Unpaved Roads</b>	<b>1,271</b>

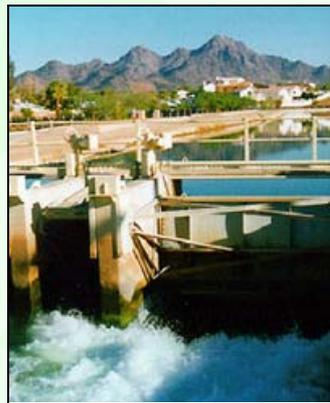
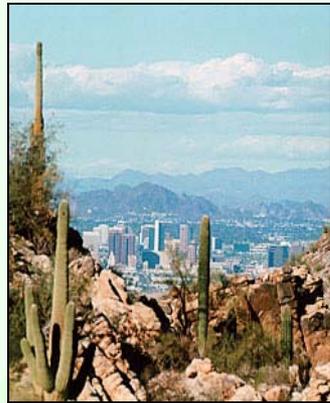
**Total Miles of Unpaved Roads 1,884**



**2009 Public Unpaved Roads in the PM-10 Nonattainment Area**

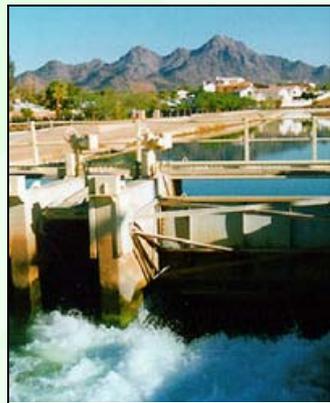
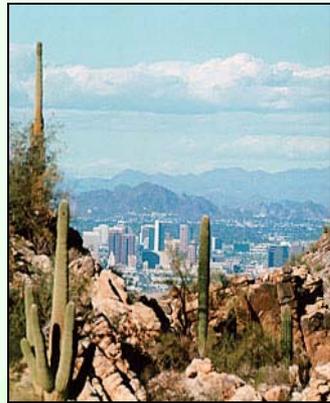


**2009 Private Unpaved Roads in the PM-10 Nonattainment Area**



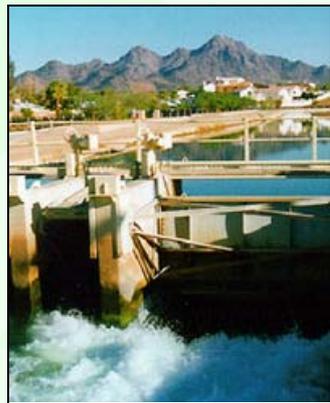
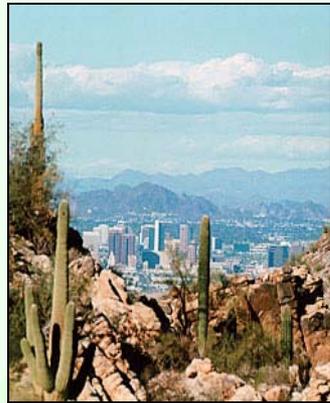
## Uses of Unpaved Roads Inventory

- Measure progress in reducing miles of public unpaved roads in the PM-10 nonattainment area
- Assist member agencies in targeting high traffic public dirt roads for paving with CMAQ and local funds
- Provide unpaved roads data for emission inventories, air quality modeling, and conformity analyses



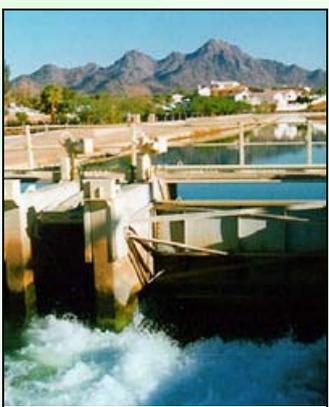
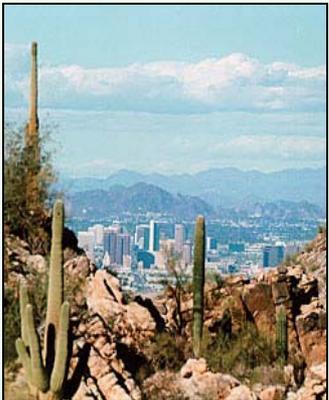
# Annual Updates to Unpaved Roads Inventory

- Paving projects contained in annual CMAQ reports
- Other information provided by MAG member agencies



## Policy Issue – Prohibit New Dirt Roads

- **No prohibition on new unpaved roads in the Maricopa County PM-10 nonattainment area**
- **Measure 34 on the MAG Suggested List of Measures to Reduce PM-10 (May 2007):**
  - Prohibit new unpaved roads including those associated with lot splits
  - Legislature did not implement
- **MAG allocates CMAQ funds each year for paving existing public unpaved roads**
- **Benefit of paving existing unpaved roads is offset by creation of new unpaved roads**
- **Other Serious PM-10 nonattainment areas have prohibited new unpaved roads**
  - Clark County, NV and San Joaquin Valley, CA



# For more information

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