



MEMORANDUM

Date: May 22, 2015

To: The Honorable Chair and Members
Pima County Board of Supervisors

From: C.H. Huckelberry
County Administrator

A handwritten signature in black ink, appearing to be "CHH", is written over the printed name "C.H. Huckelberry".

Re: **Age of Public Streets within Pima County**

There has been discussion, particularly from smaller jurisdictions, regarding the need for the bond issue proposed for November 2015 regarding adequate maintenance and repair activities associated with their streets and highways. Please refer to the attached article published in *Inside Tucson Business* and the *Explorer* regarding this subject.

Also enclosed is a Geographic Information Systems (GIS) analysis of the public streets and highways within each jurisdiction, including the unincorporated area of Pima County. This analysis was conducted by our GIS group, where we have data available regarding the filing of subdivision plats and other activities associated with the creation of public streets and highways. This data was aggregated to determine age by decade.

The information presents a fairly clear and convincing picture regarding the need for street and highway repairs in both the City of Tucson and the unincorporated area of Pima County, as both jurisdictions have the oldest streets and highways, while other jurisdictions have streets that are relatively newly built by developers.

While the information requires a more detailed analysis to determine streets and highways that cannot be evaluated by age, the analysis is an approximate and appropriate representation of the age of the public streets and highways within the region.

The new jurisdictions, the Towns of Marana, Sahuarita and Oro Valley, have relatively new streets; hence, they do not have the same level of maintenance obligations or need as the streets and highways in the older urban area have today.

Please also note the number of streets and highways that are classified as private. These are under the control and ownership of a homeowners association that provide their own repairs and maintenance. The percentage of private streets in newer communities is generally higher than in older established communities. The importance of this fact is the maintenance obligation for private streets rests with the individual homeowners who pay for their own maintenance and receive no public funding for same.

The table below summarizes the data maps attached.

The Honorable Chair and Members, Pima County Board of Supervisors
Re: **Age of Public Streets within Pima County**
May 22, 2015
Page 2

Age Analysis of the Public Streets and Highways Within Each Jurisdiction.

Jurisdiction	Median Age Per Mile	Percentage of Street Miles Constructed in 1990 or After
City of Tucson	59.8	12.4
City of South Tucson	89.2	0.0
Town of Marana	16.9	39.4
Town of Oro Valley	28.3	33.3
Town of Sahuarita	14.3	52.8
Pima County Unincorporated	42.6	14.1

This information clearly illustrates why City and County streets and highways are in need of repair while some of the newer communities are not.

CHH/anc

Attachments

- c: Nicole Fyffe, Executive Assistant to the County Administrator
Diana Durazo, Special Staff Assistant to the County Administrator
John Bernal, Deputy County Administrator for Public Works
Priscilla Cornelio, Transportation Director

Marana, Oro Valley officials concerned with bond package

Thelma Grimes, The Explorer | Posted: Wednesday, May 6, 2015 4:00 am

When it comes to supporting the more than \$800 million in bonds the Pima County Board of Supervisors is asking voters to approve in November, Marana Mayor Ed Honea said “no, no and hell no.”

Honea has a strong opinion when it comes to projects being proposed by Pima County because he feels there are trust issues after Marana has been burned in the past.

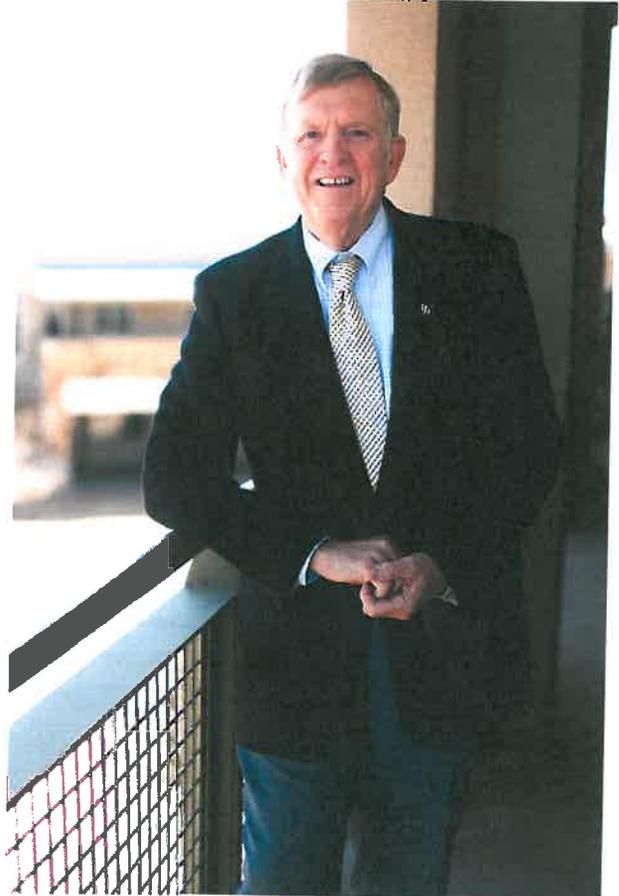
Citing the last bond election where Marana was promised money for specific projects, Honea said the town never received it and it ended up costing \$2.1 million in lost money from the county and lost grant funding. Honea said the funding was to help mostly elderly residents in Honea Heights for sewer, water and park upgrades.

“(County Administrator Chuck Huckelberry) wouldn’t give us the money and it cost the town,” Honea said. “Chuck was mad over the wastewater litigation at the time.”

Huckelberry said the situation with Marana, dating back to 2008, isn’t as simple as breaking trust or promises.

“The county did exactly what was promised (in Marana) except for the sewers,” he said. “When Marana wanted to own its own sewer system, they got their own set of users and it became illegal to move forward with the project.”

Pima County and Marana settled a dispute over which municipality could manage the wastewater system in Marana town limits. Marana eventually took over the services.



Ed Honea hiking

Town of Marana Mayor Ed Honea takes frequent walks around the town.

Besides the trust factor, Honea said he's concerned with Pima County tax rates and the decision to go further into debt.

"You don't borrow money on your American Express card to make a house payment," he said. "Borrowing money in the sixth-poorest community in the U.S. is just foolish. When you have to start borrowing money for maintenance, you're in trouble.

"Look at Oro Valley and Marana, we have a (road) preservation plan in place. We have maintenance plans. If the bond is passed – will we take it? Sure. Do we need it? No."

Each year, both Marana and Oro Valley budget money for road repairs and preservation. Currently, Marana has budgeted more than and Oro Valley has more than \$1 million for pavement management and preservation proposed for the 2015/16 fiscal year, which begins July 1.

Oro Valley Councilman Bill Garner said beyond the preservation funding, if residents look deeper into the proposed budget, there's another \$1 million for overall street maintenance and drainage, which covers materials and crews.

When asked what is the solution to the problem other than bonds, Honea said, "better management."

"Borrowing \$800 million right now is foolish," Honea said. "Stop building bicycle lanes and start fixing the roads."

Garner said he's concerned with how the county opted to present the bond package to voters. Instead of an overall bond package worth \$815 million, seven questions will be posed to voters, splitting up 96 total projects into seven categories.

"It's set up for failure," Garner said. "By posing seven different questions, voters are going to prioritize them all differently. In my opinion, it could get confusing for voters. "

Honea, who was expressing his own opinion in the April 28 interview, said the Marana Council has not scheduled an agenda item to take an official position on the bond proposals.

"Once we have a little more information, more specifics – we'll see about taking a position," he said.

Huckelberry said the bond package aims to improve the tourism industry, which impacts the entire region, including Oro Valley, Marana and Tucson. In total, the tourism question aims to fund 11 projects for a \$98.6 million.

"Tourism is a component to our economy and when tourism does better, the entire region benefits," Huckelberry said.

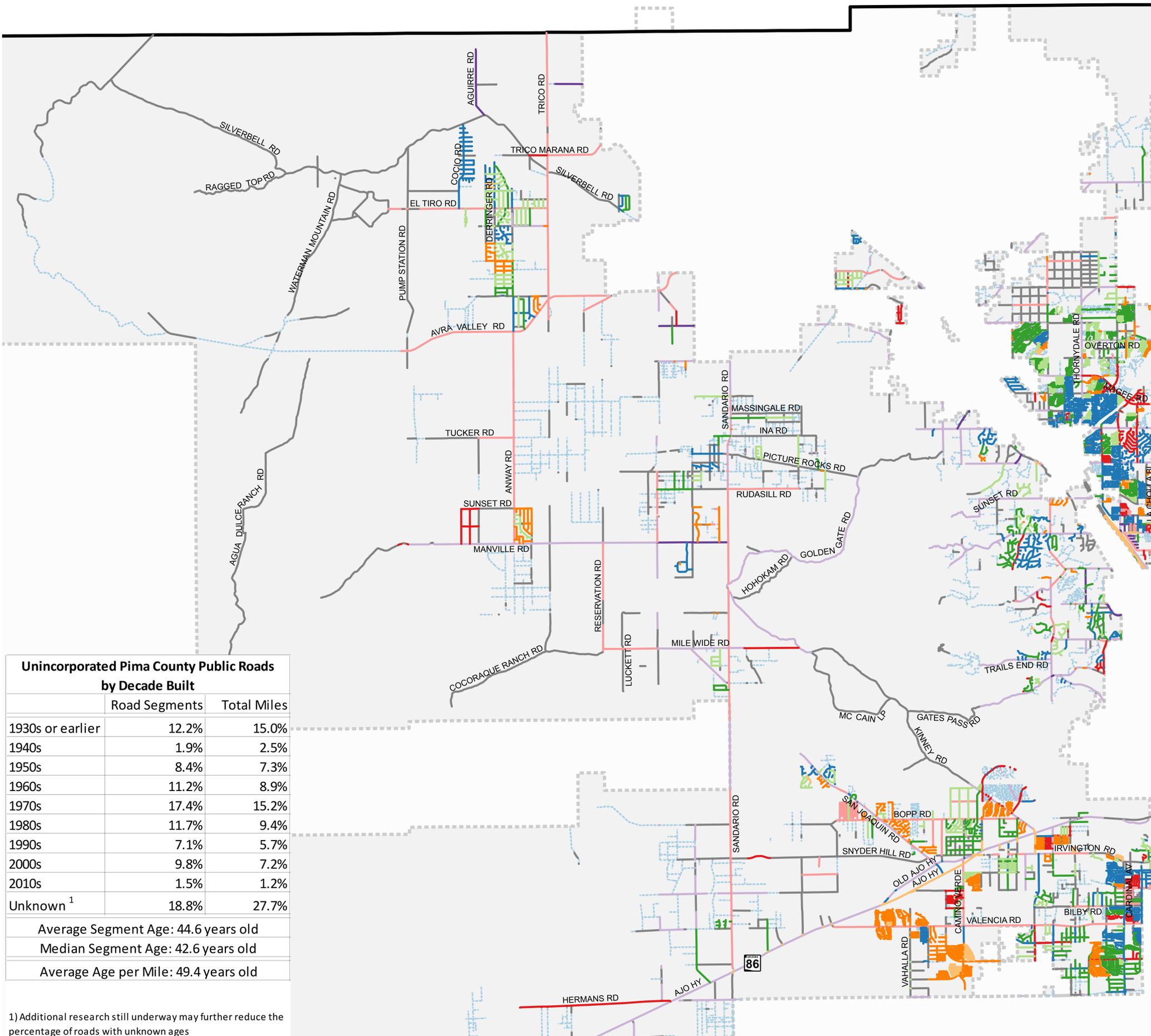
Huckelberry said employees of major employers are located in Oro Valley, Marana and Tucson, meaning expanding industries such as bioscience, Raytheon and aerospace will benefit all.

Number of miles of roads on Indian Nations in Unincorporated Pima County	809.3
Number of miles of off-Reservation private roads in Unincorporated Pima County	1,128.0
Number of miles of off-Reservation public County-maintained roads in Unincorp. P.C.	2,133.0
Number of miles of all other off-Reservation public roads in Unincorp. P.C.	995.6
Total	5,065.9

Unincorporated Pima County Public Roads

(Northwestern Extent of Eastern P.C.)

Age by Decade



Unincorp. P.C. Public Roads
(Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

- Unknown
- 30s or Earlier
- 40s
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

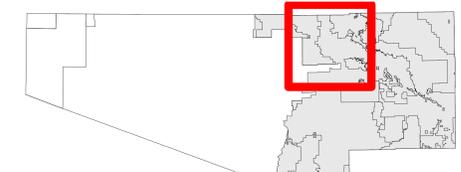
Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

Unincorporated Pima County Public Roads by Decade Built		
	Road Segments	Total Miles
1930s or earlier	12.2%	15.0%
1940s	1.9%	2.5%
1950s	8.4%	7.3%
1960s	11.2%	8.9%
1970s	17.4%	15.2%
1980s	11.7%	9.4%
1990s	7.1%	5.7%
2000s	9.8%	7.2%
2010s	1.5%	1.2%
Unknown ¹	18.8%	27.7%
Average Segment Age: 44.6 years old		
Median Segment Age: 42.6 years old		
Average Age per Mile: 49.4 years old		

1) Additional research still underway may further reduce the percentage of roads with unknown ages

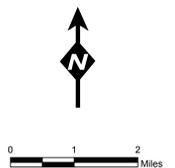
Pima County Index Map



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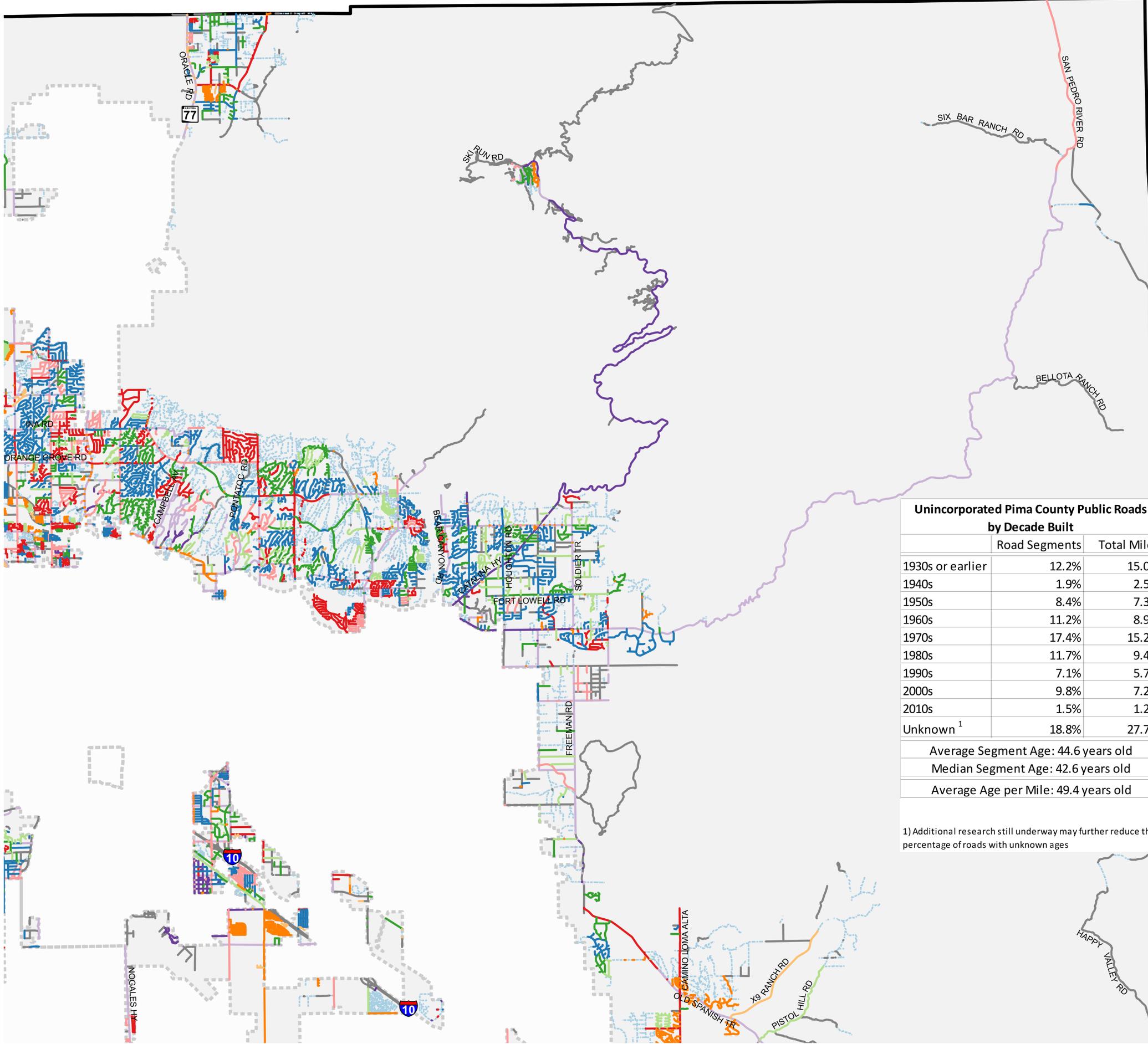
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Pima County Information Technology Dept.
201 North Stone Avenue - 9th Floor
Tucson, Arizona 85701-1207
(520)740-6670 - FAX:(520)798-3429



5/18/2015

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Unincorporated Pima County Public Roads

(Northeastern Extent of Eastern P.C.)

Age by Decade

Unincorp. P.C. Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

- Unknown
- 30s or Earlier
- 40s
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

Unincorporated Pima County Public Roads by Decade Built

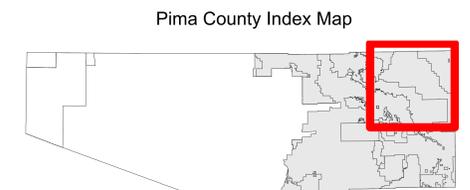
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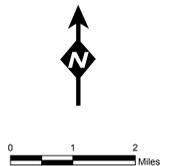
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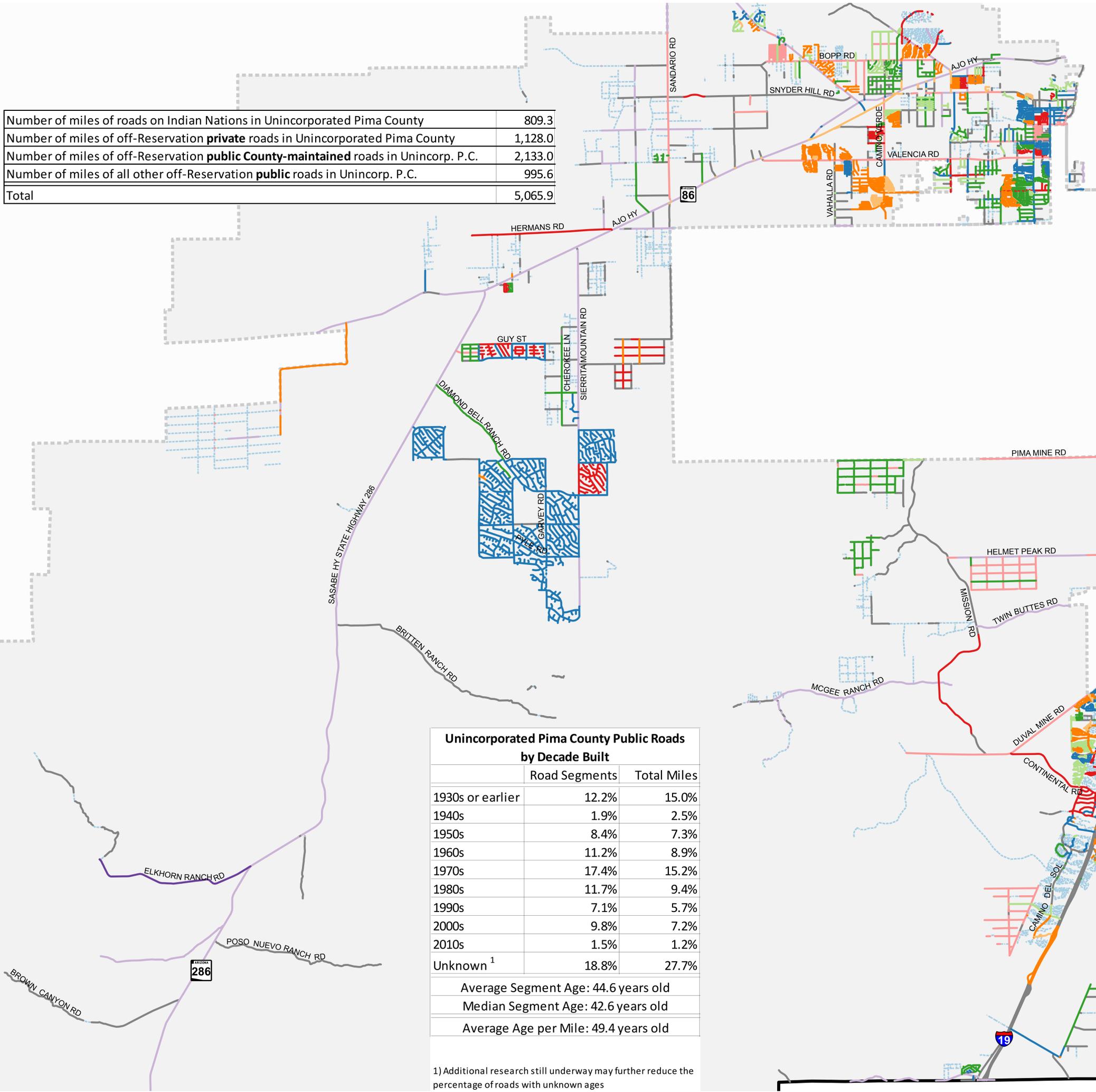


5/18/2015

Unincorporated Pima County Public Roads (Southwestern Extent of Eastern P.C.)

Age by Decade

Number of miles of roads on Indian Nations in Unincorporated Pima County	809.3
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Number of miles of off-Reservation public County-maintained roads in Unincorp. P.C.	2,133.0
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Total	5,065.9



Unincorp. P.C. Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

- Unknown Age
- 30s or Earlier
- 40s
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

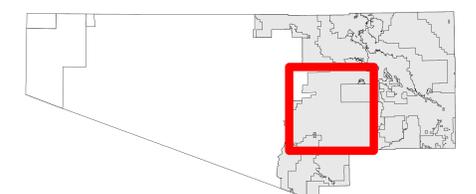
Unincorporated Pima County Public Roads by Decade Built

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Pima County Index Map

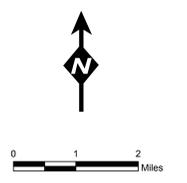


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Unincorporated Pima County Public Roads

(Southeastern Extent of Eastern P.C.)

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Unincorp. P.C. Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

-  Unknown
-  30s or Earlier
-  40s
-  50s
-  60s
-  70s
-  80s
-  90s
-  2000s
-  2010s

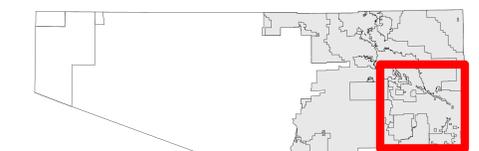
Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

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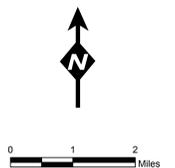
Pima County Index Map



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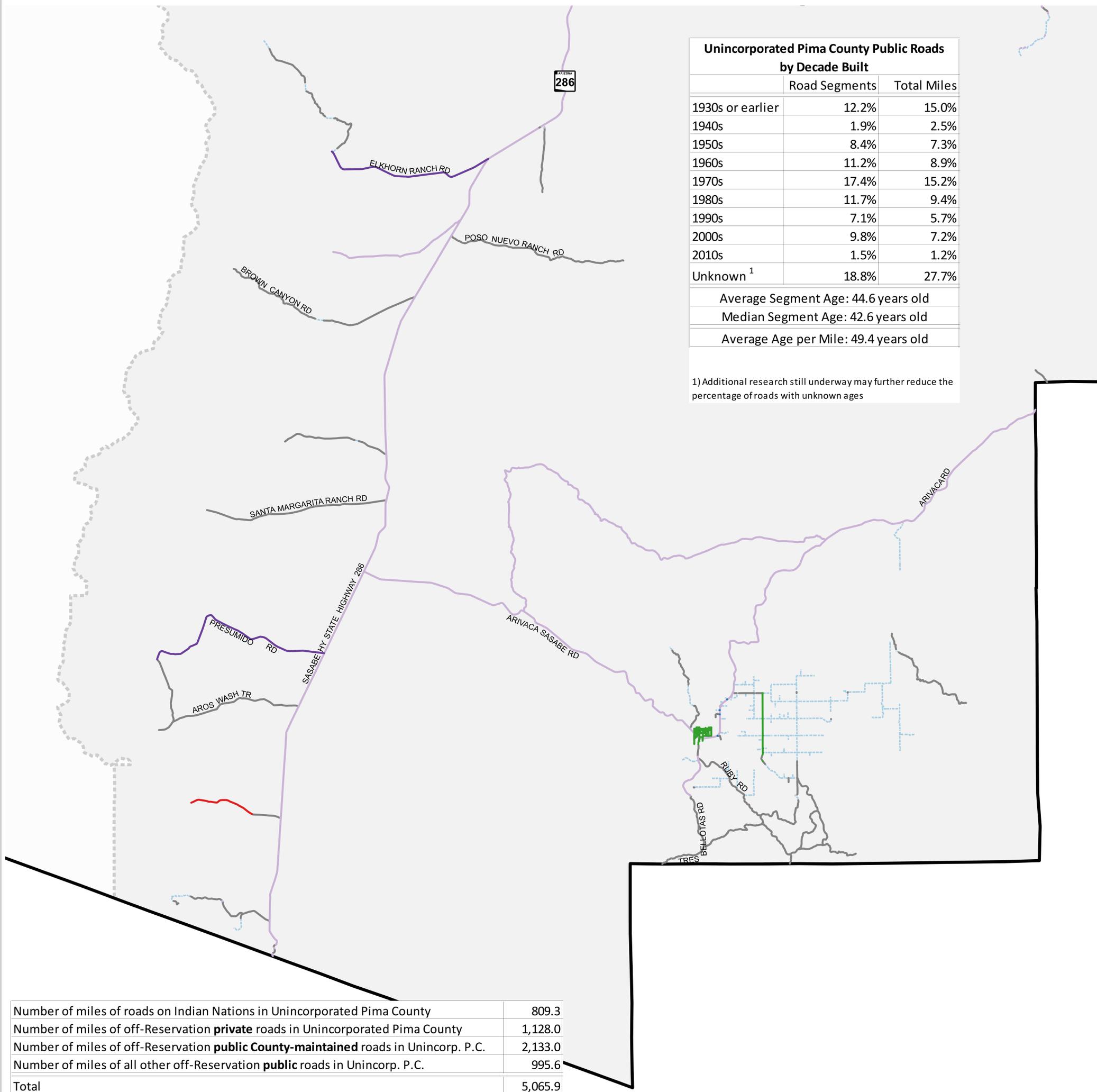
Unincorporated Pima County Public Roads (Altar Valley)

Age by Decade

	Road Segments	Total Miles
1930s or earlier	12.2%	15.0%
1940s	1.9%	2.5%
1950s	8.4%	7.3%
1960s	11.2%	8.9%
1970s	17.4%	15.2%
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1990s	7.1%	5.7%
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Unincorp. P.C. Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

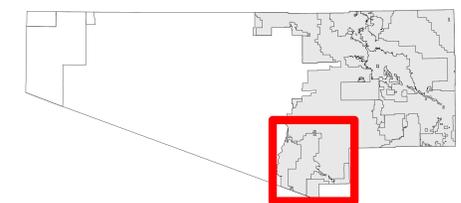
Decade Built

- Unknown
- 30s or Earlier
- 40s
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

Pima County Index Map

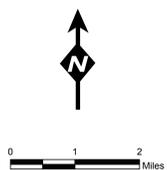


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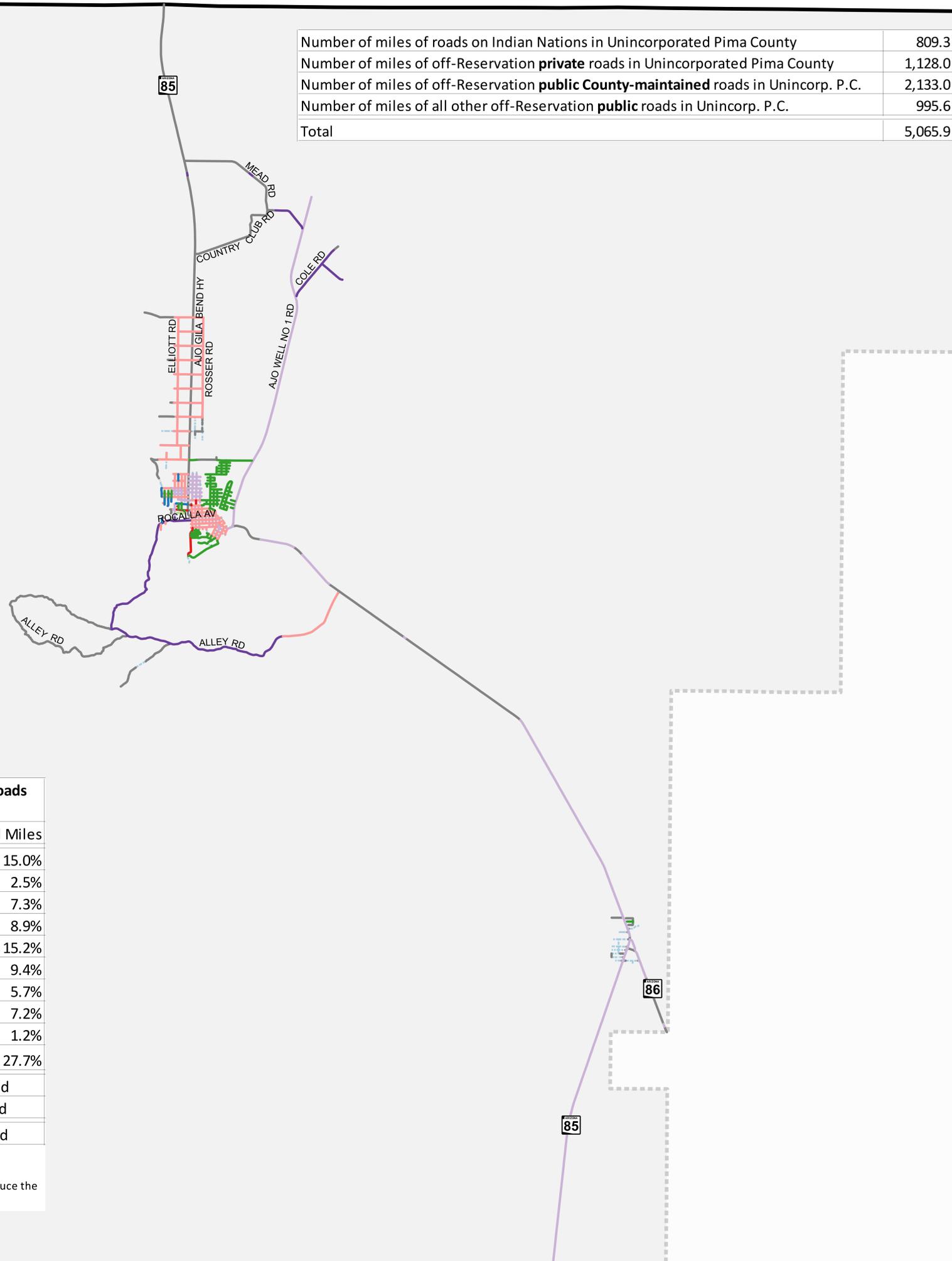


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Unincorporated Pima County Public Roads (Western Pima County)

Age by Decade

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Total	5,065.9



Unincorp. P.C. Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

- Unknown Age
- 30s or Earlier
- 40s
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

Unincorp. P.C. Private Roads

Municipal and Indian Nation Boundaries

Unincorporated Pima County Public Roads by Decade Built

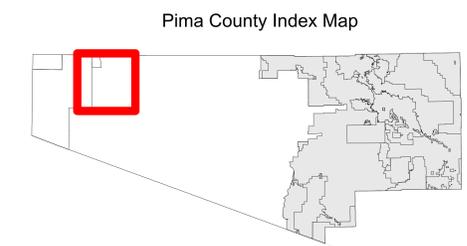
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1970s	17.4%	15.2%
1980s	11.7%	9.4%
1990s	7.1%	5.7%
2000s	9.8%	7.2%
2010s	1.5%	1.2%
Unknown ¹	18.8%	27.7%

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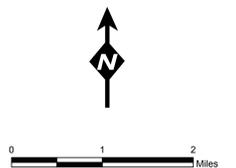


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Marana Public Roads

Age by Decade

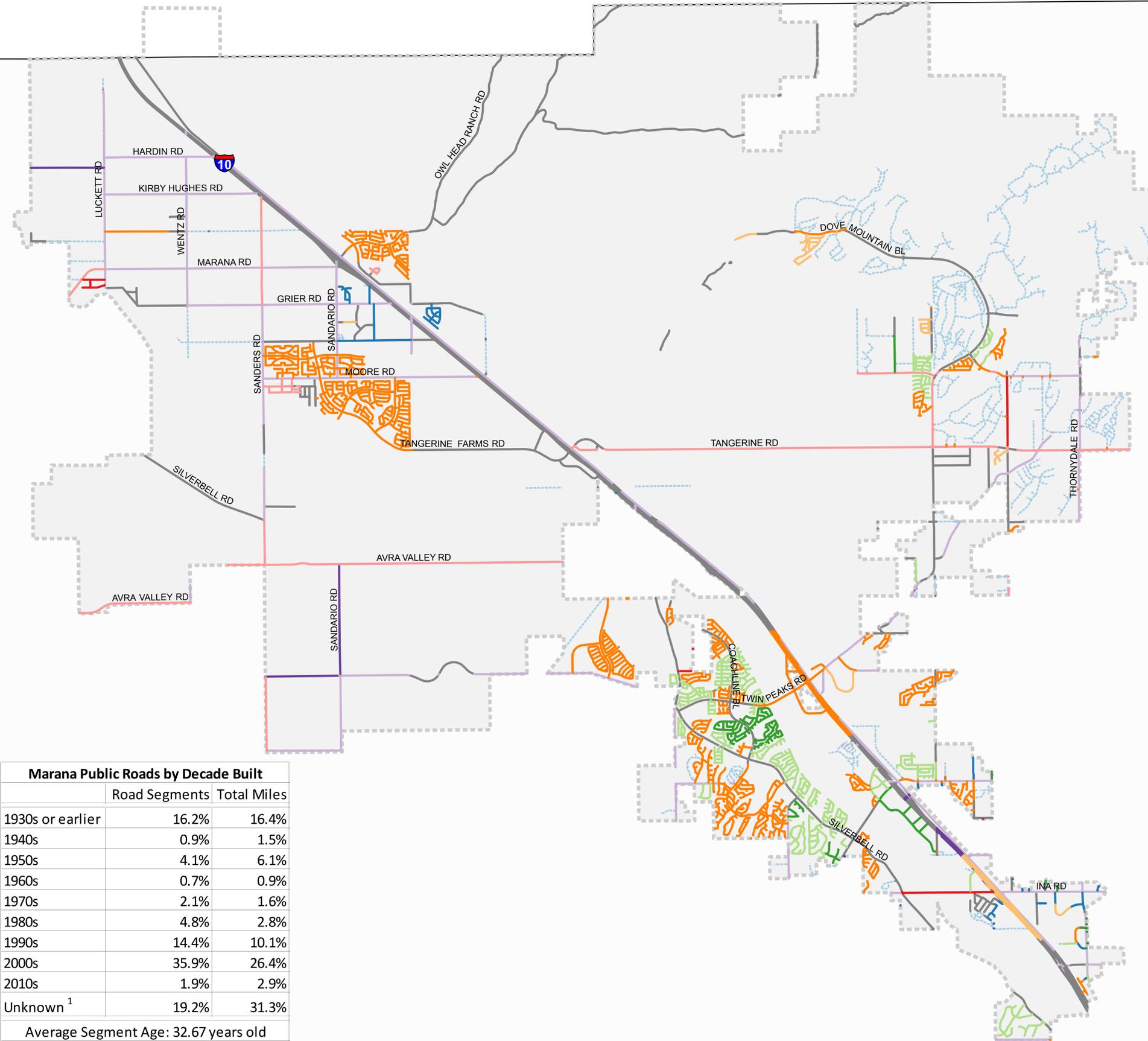
Marana Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

-  Unknown Age
-  30s or Earlier
-  40s
-  50s
-  60s
-  70s
-  80s
-  90s
-  2000s
-  2010s

 Marana Private Roads

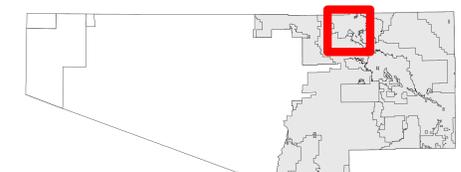
 Marana Town Boundary



Marana Public Roads by Decade Built		
	Road Segments	Total Miles
1930s or earlier	16.2%	16.4%
1940s	0.9%	1.5%
1950s	4.1%	6.1%
1960s	0.7%	0.9%
1970s	2.1%	1.6%
1980s	4.8%	2.8%
1990s	14.4%	10.1%
2000s	35.9%	26.4%
2010s	1.9%	2.9%
Unknown ¹	19.2%	31.3%
Average Segment Age: 32.67 years old		
Median Segment Age: 16.9 years old		
Average Age per Mile: 37.8 years old		

Number of miles of public roads in Marana	344.7
Number of miles of private roads in Marana	78.4
Total	423.1

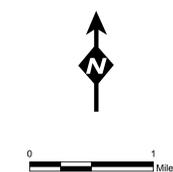
Pima County Index Map



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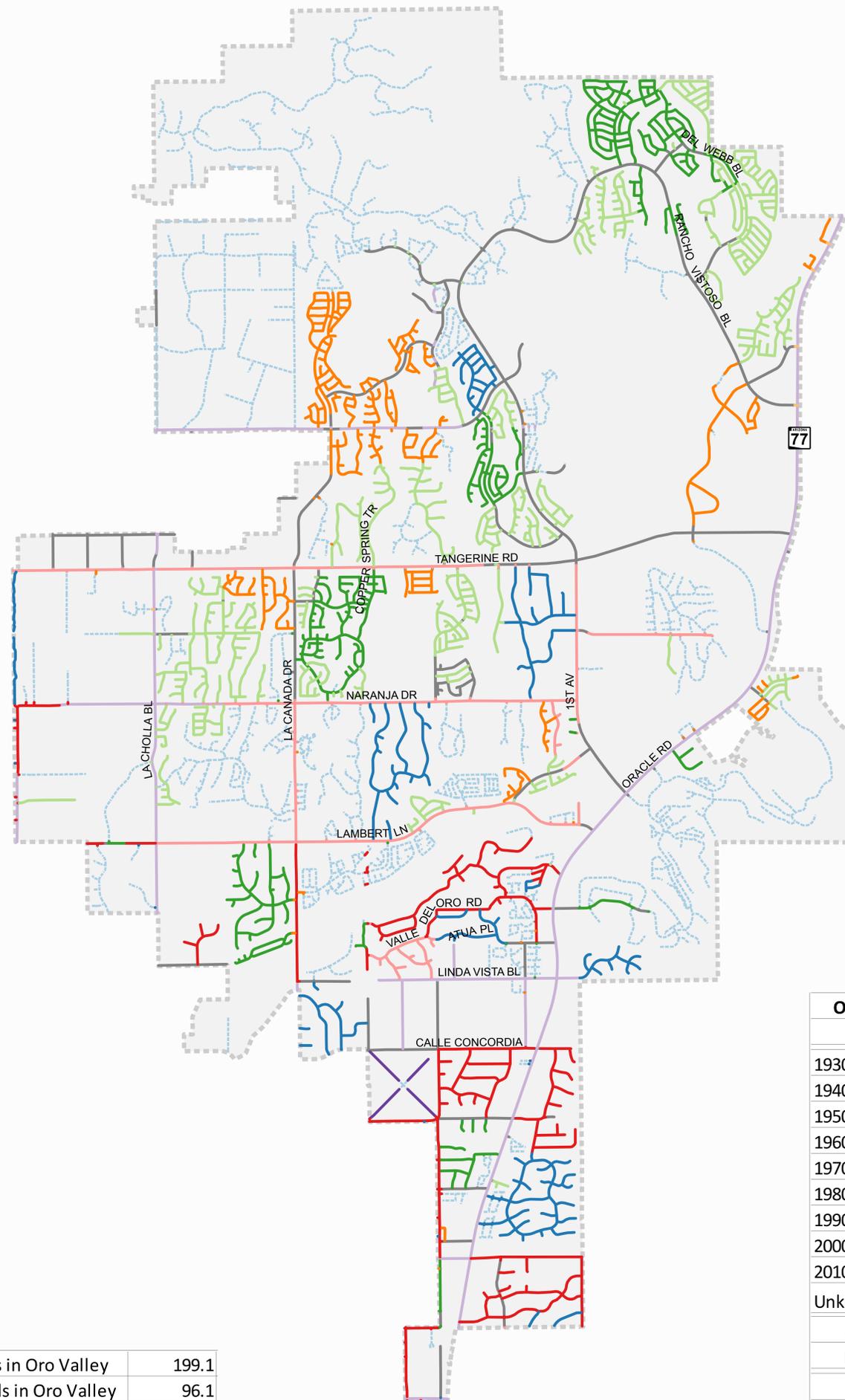


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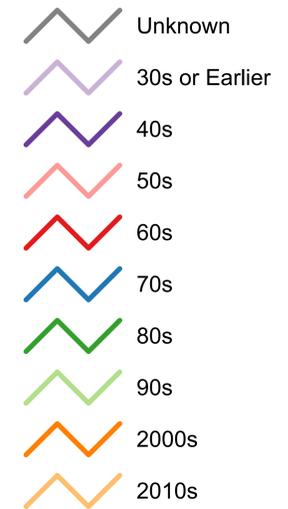
Oro Valley Public Roads

Age by Decade



Oro Valley Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built



Oro Valley Private Roads

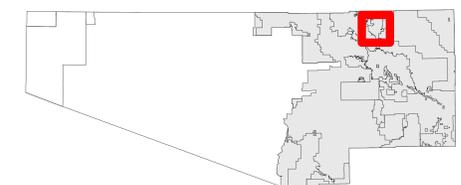
Oro Valley Town Boundary

Oro Valley Public Roads by Decade Built		
	Road Segments	Total Miles
1930s or earlier	7.5%	9.6%
1940s	0.1%	0.5%
1950s	10.4%	7.8%
1960s	10.0%	10.0%
1970s	6.6%	9.0%
1980s	17.0%	14.8%
1990s	22.7%	23.1%
2000s	10.1%	10.2%
2010s	0.2%	0.0%
Unknown ¹	15.3%	14.9%
Average Segment Age: 36.5 years old		
Median Segment Age: 28.33 years old		
Average Age per Mile: 37.5 years old		

1) Additional research still underway may further reduce the percentage of roads with unknown ages

Number of miles of public roads in Oro Valley	199.1
Number of miles of private roads in Oro Valley	96.1
Total	295.2

Pima County Index Map

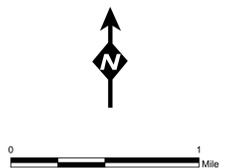


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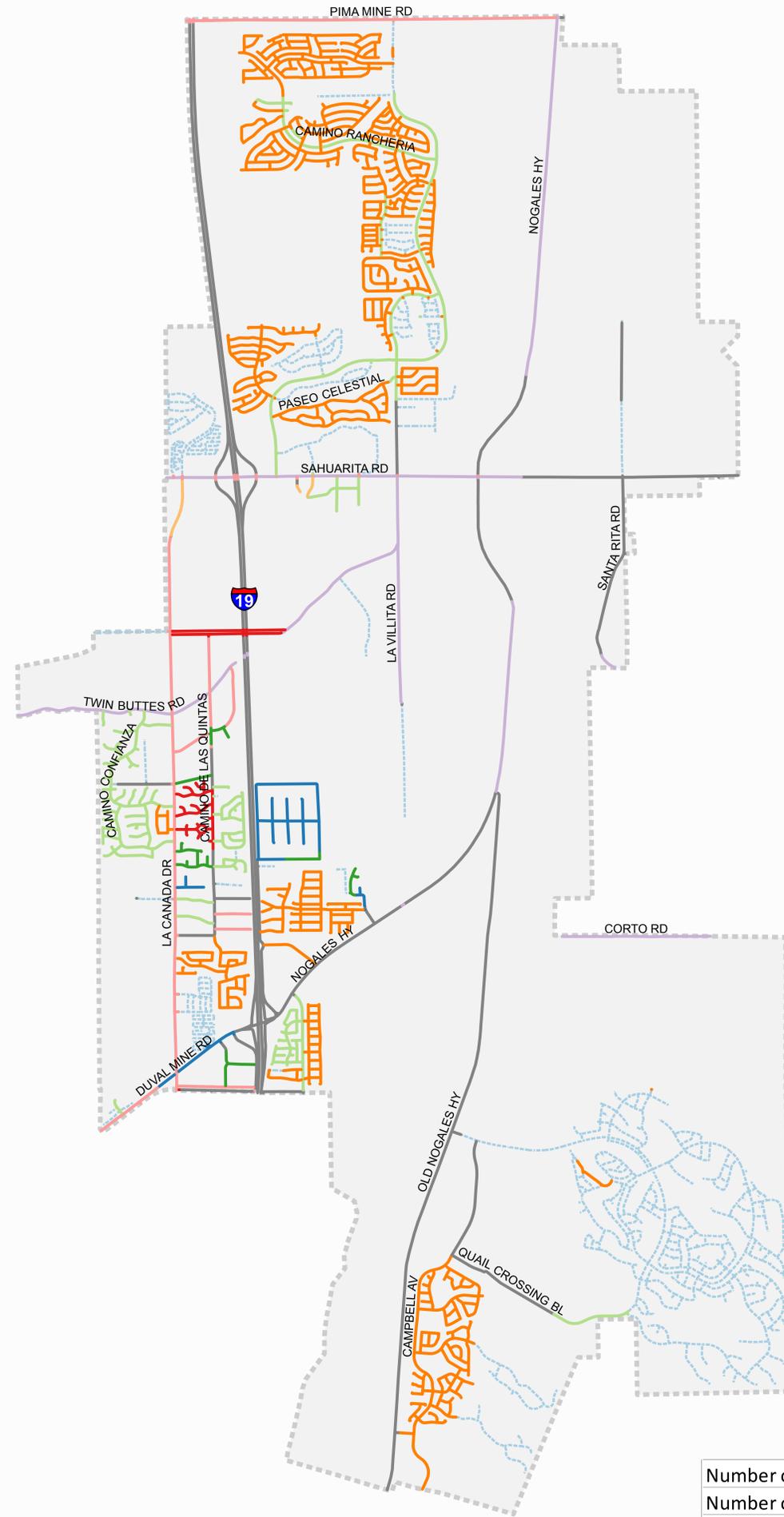
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5/18/2015

Sahuarita Public Roads

Age by Decade



Sahuarita Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

Decade Built

- Unknown
- 30s or Earlier
- 50s
- 60s
- 70s
- 80s
- 90s
- 2000s
- 2010s

Sahuarita Private Roads

Sahuarita Town Boundary

Sahuarita Public Roads by Decade Built

	Road Segments	Total Miles
1930s or earlier	5.9%	8.1%
1950s	7.7%	6.8%
1960s	4.1%	2.4%
1970s	2.6%	2.8%
1980s	1.9%	1.5%
1990s	17.2%	13.1%
2000s	51.1%	39.3%
2010s	0.2%	0.4%
Unknown ¹	9.4%	25.7%

Average Segment Age: 23.9 years old

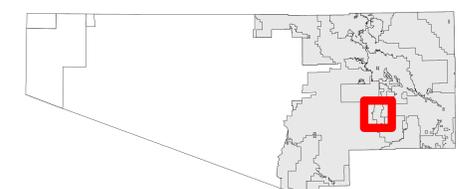
Median Segment Age: 14.25 years old

Average Age per Mile: 27.2 years old

Number of miles of public roads in Sahuarita	139.4
Number of miles of private roads in Sahuarita	52.7
Total	192.1

1) Additional research still underway may further reduce the percentage of roads with unknown ages

Pima County Index Map



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Number of miles of public roads in Tucson	1,969.2
Number of miles of private roads in Tucson	183.9
Total	2,153.1

Tucson Public Roads

Age by Decade

Tucson Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

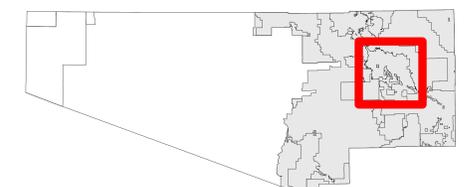
Decade Built

-  Unknown Age
-  30s or Earlier
-  40s
-  50s
-  60s
-  70s
-  80s
-  90s
-  2000s
-  2010s

 Tucson Private Roads

 Tucson City Boundary

Pima County Index Map



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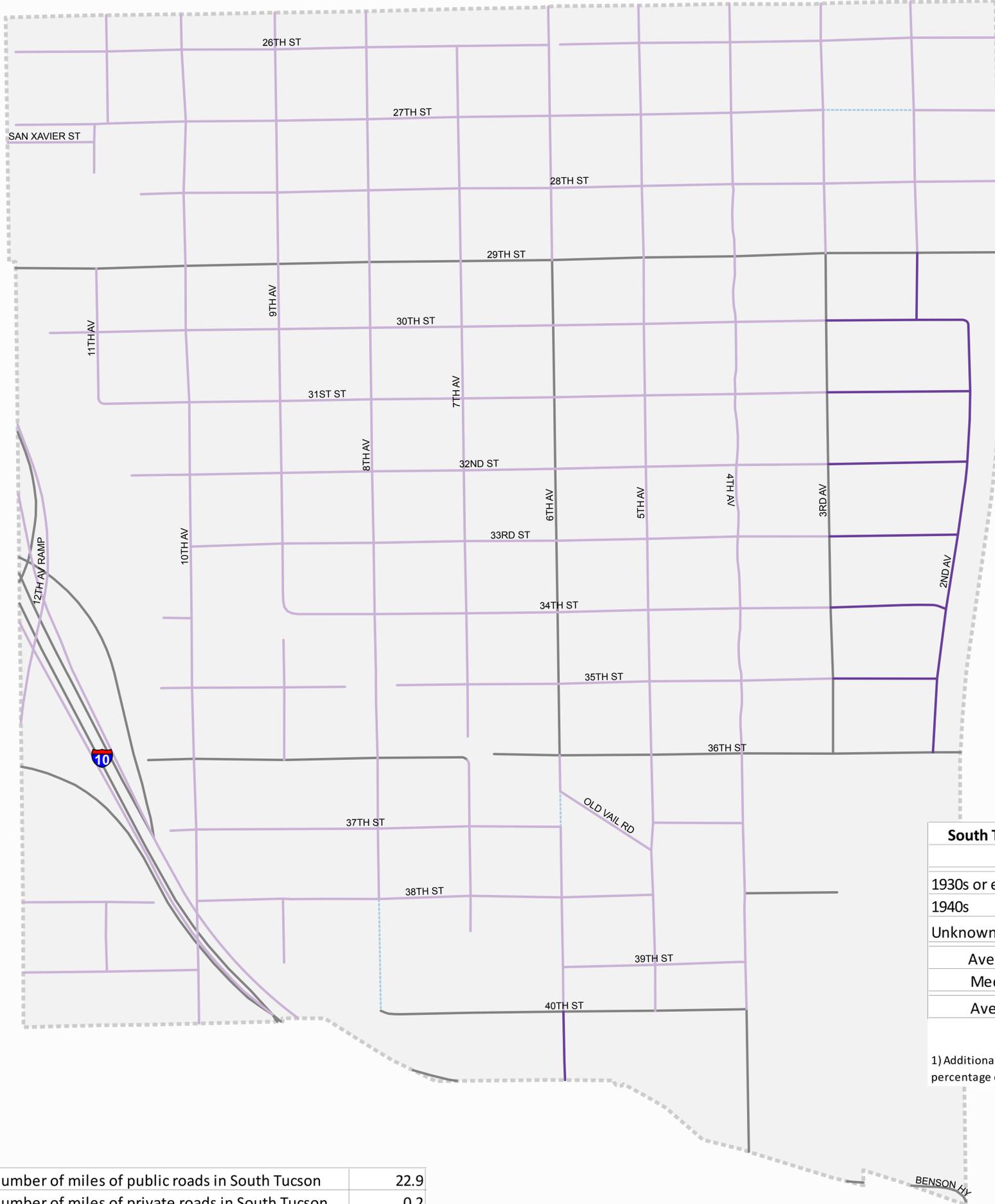
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Tucson Public Roads by Decade Built		
	Road Segments	Total Miles
1930s or earlier	26.0%	24.4%
1940s	5.6%	6.2%
1950s	15.0%	14.8%
1960s	7.3%	7.6%
1970s	7.2%	7.5%
1980s	4.8%	5.2%
1990s	4.8%	5.1%
2000s	6.4%	6.4%
2010s	0.8%	0.9%
Unknown ¹	22.2%	21.9%
Average Segment Age: 60.67 years old		
Median Segment Age: 59.8 years old		
Average Age per Mile: 59.33 years old		

1) Additional research still underway may further reduce the percentage of roads with unknown ages

South Tucson Public Roads

Age by Decade



South Tucson Public Roads by Decade Built		
	Road Segments	Total Miles
1930s or earlier	76.6%	72.0%
1940s	5.5%	5.8%
Unknown ¹	17.9%	22.2%
Average Segment Age: 96.0 years old		
Median Segment Age: 89.2 years old		
Average Age per Mile: 94.8 years old		

1) Additional research still underway may further reduce the percentage of roads with unknown ages

Number of miles of public roads in South Tucson	22.9
Number of miles of private roads in South Tucson	0.2
Total	23.1

South Tucson Public Roads (Irrespective of Jurisdictional Ownership / Maintenance Responsibility)

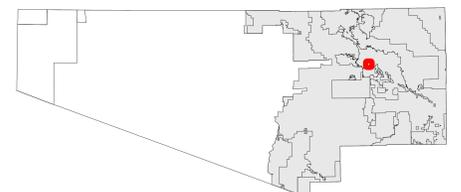
Decade Built

- Unknown
- 30s or Earlier
- 40s

South Tucson Private Roads

South Tucson City Boundary

Pima County Index Map



Index Map Scale 1:1,500,000 for Arch E Print

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0 0.1 Miles

5/22/2015