

2015 Draft Population and Employment Projections

MAG Population Technical Advisory Committee

November 10, 2015

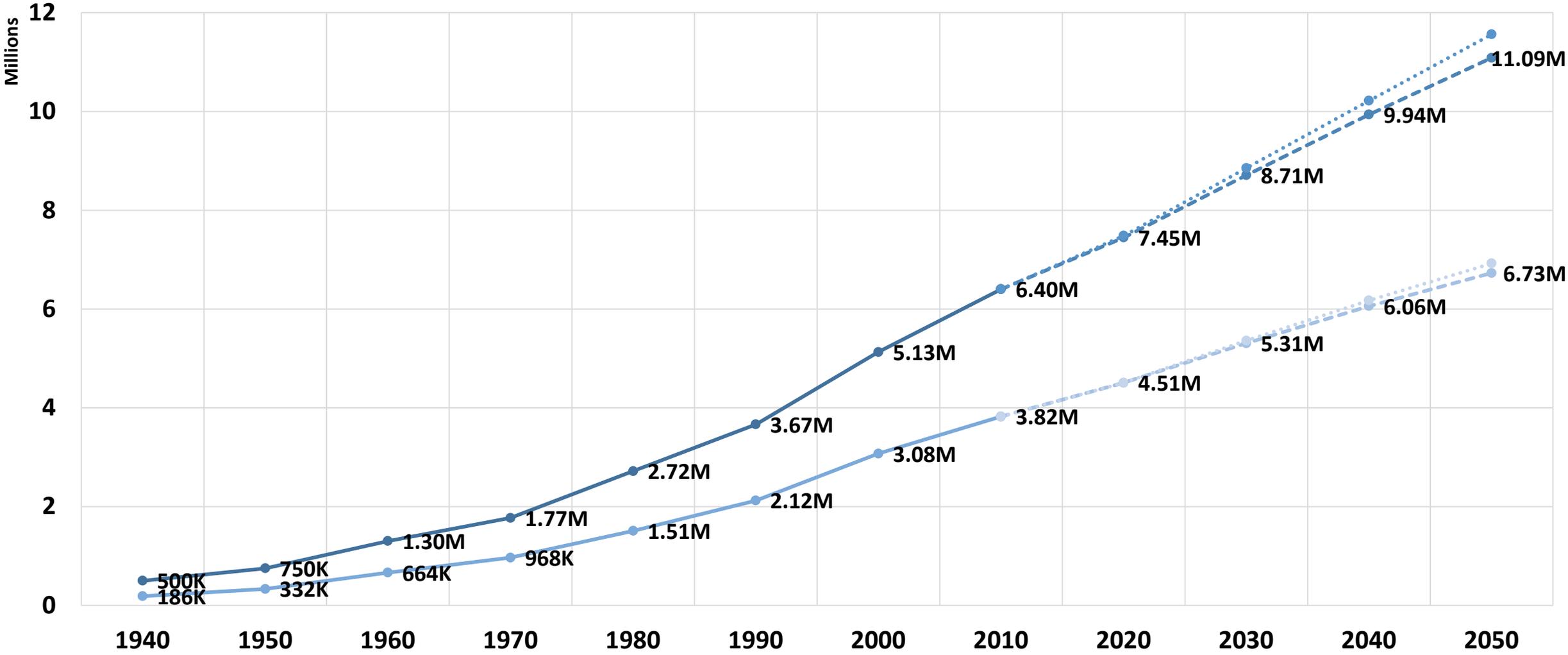
Population Projections – Overview and Methods

Executive Order 2011-04

- One set of official projections
- State and County projections developed by State Demographers Office at Arizona Department of Administration (ADOA)
- Projections developed every 3 to 4 years (years ending in 2 following decennial census, and updates in years ending in 5 and 8)
- Council for Technical Solutions comprised of representatives from Regional Councils, Universities, and State Agencies
- MAG required to use County projections as control for sub-regional projections in Maricopa County
- Federal requirements mandate that transportation and air quality models use official projections
- 2012/13 set of projections now out of date
- 2015/16 Projections currently under development

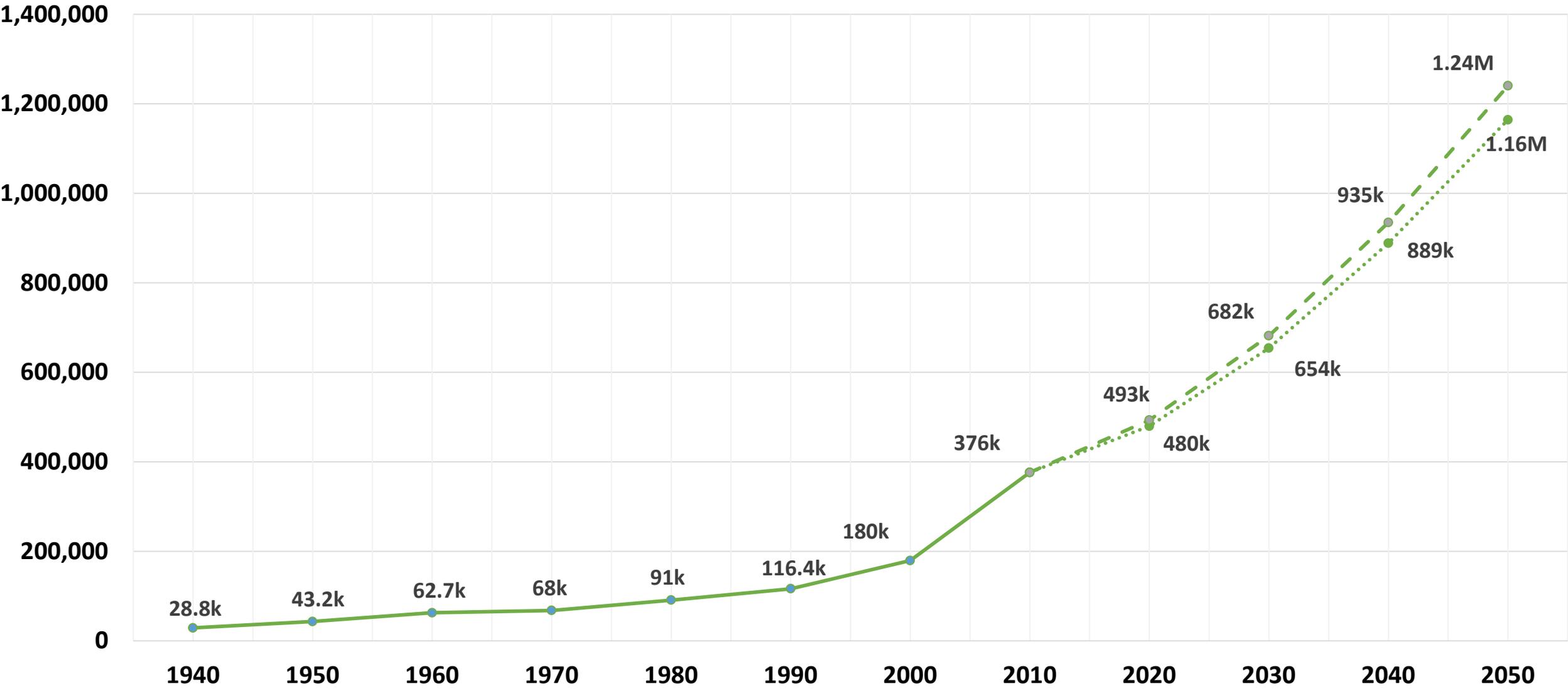
Draft Total Population – Arizona and Maricopa County

- Arizona Historical
- Arizona 2014 Draft Projections
- Arizona 2012 Final Projections
- Maricopa County Historical
- Maricopa County 2014 Draft Projections
- Maricopa County 2012 Final Projections



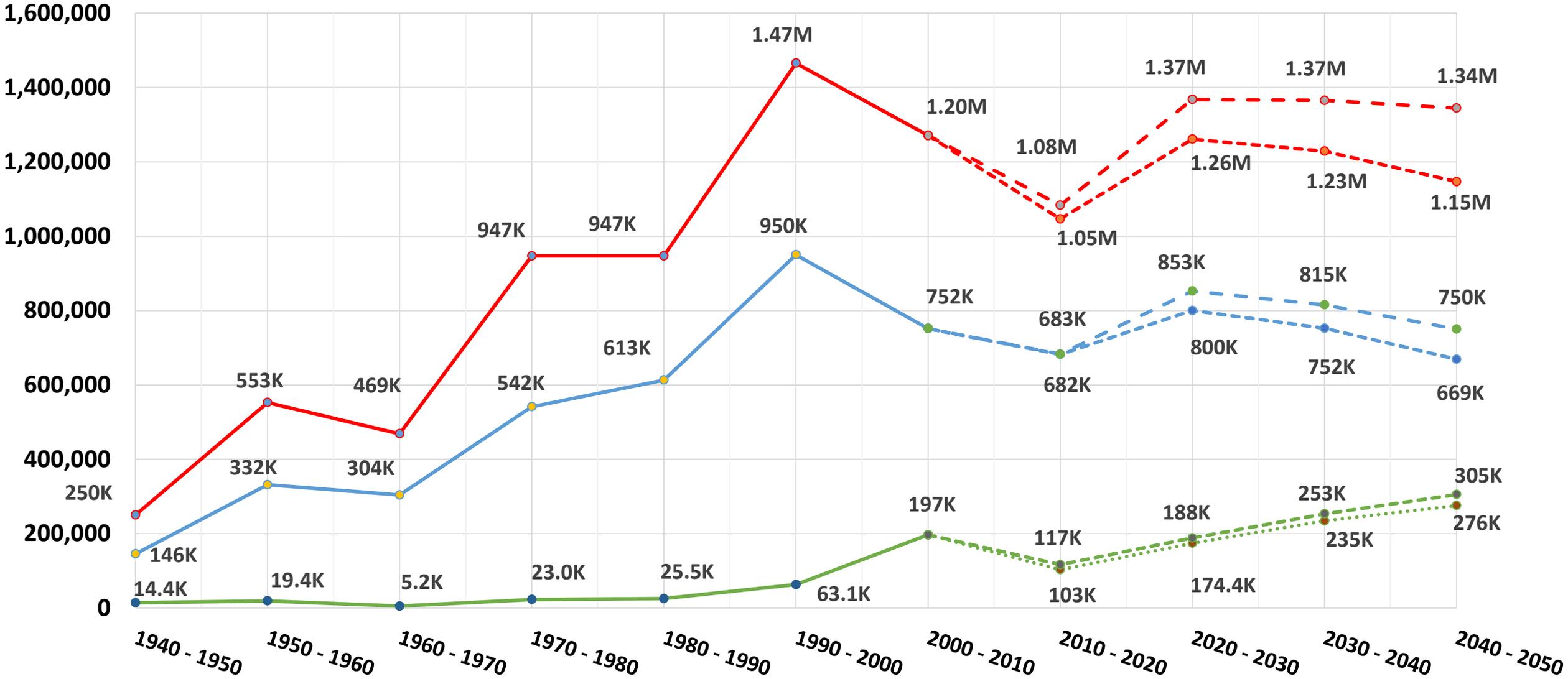
Draft Total Population - Pinal County

- Pinal County - Historical
- Pinal County - 2015 Draft Projections
- Pinal County - 2013 Final Projections

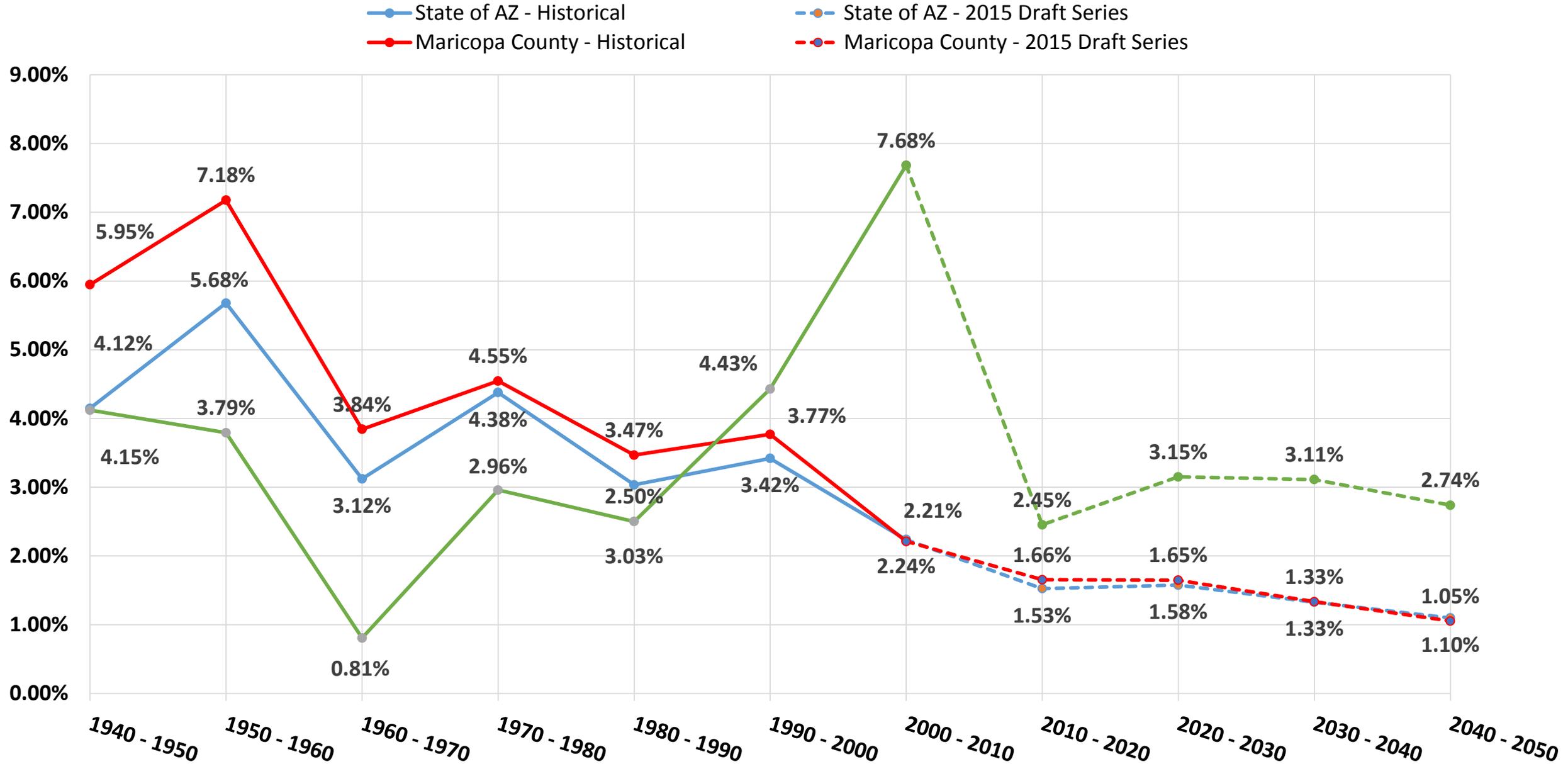


Draft Population Change - Arizona, Maricopa, and Pinal Counties

- State of AZ - Historical
- State of AZ - 2015 Draft Series
- State of AZ - 2013 Projections
- Maricopa County - Historical
- Maricopa County - 2015 Draft Series
- Maricopa County - 2013 Projections
- Pinal County - Historical
- Pinal County - 2015 Draft Series
- Pinal County - 2013 Projections



Draft Population Growth Rate - Arizona, Maricopa, and Pinal Counties



Employment Projections

Methodology

- Maricopa and Pinal Counties (working with CAAG) long-term employment projections (2015-2050)
- Projections from Moody's Analytics, Inc., and Woods and Pools Economics, Inc. (W&P).
 - Derive weighted average employment growth rates – Moody's and W&P
 - Compare to employment-to-population ratios.
 - Compare short-end using ADOA and University of Arizona employment forecasts and national economic forecasts and expectations by NABE and IMF.
 - Benchmark projections using University of Arizona long-term employment forecasts

Employment Projections (cont.)

Methodology

- Project total employment which includes:
 - Covered employment adjusted for unincorporated self-employed (USE).
 - Military personnel both active duty and reserves: hold at 12-year average rate.
- Apply pooled (Moody's and W&P) employment growth rates.
- Apply assumptions on worker commuter flows to Maricopa and Pinal Counties employment forecasts.
- Derive County level employment by sector, by year, from a combination of the two series.

Pinal County: Special Adjustments

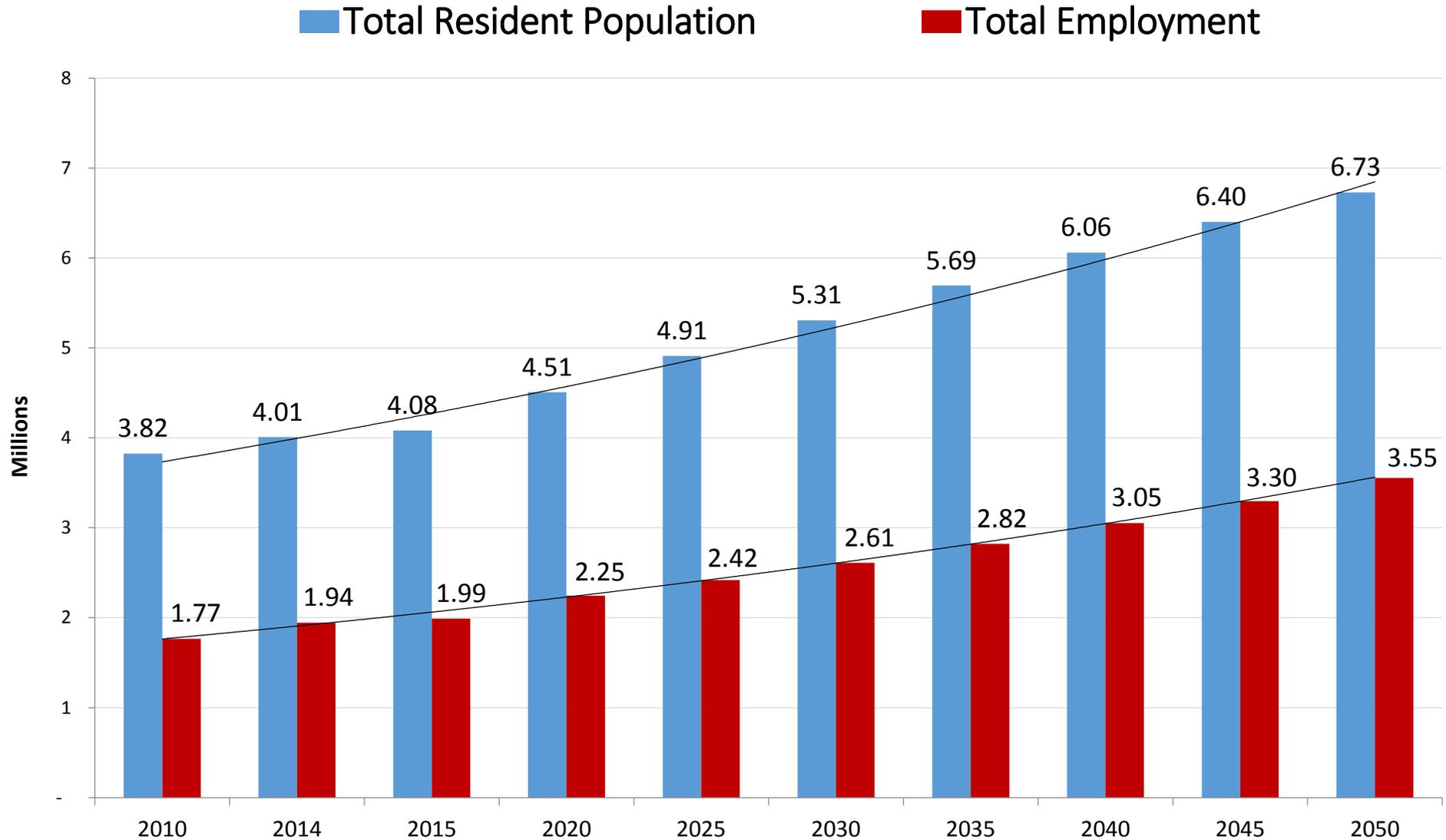
Reverse Commuter Flows

- Step 1: Adjust commuter flows from Pinal County to Maricopa County.
 - 57,600 people (15.0%) live in Pinal County but work in Maricopa County.
 - Assume percentage drops from 15% in 2020 to 5% in 2050.
- Step 2: Adjust commuter flows from Maricopa County to Pinal County.
 - 11,570 people (0.30%) live in Maricopa County but work in Pinal County.
 - Assume percentage increases from 0.30% in 2025 to 0.80% in 2050.

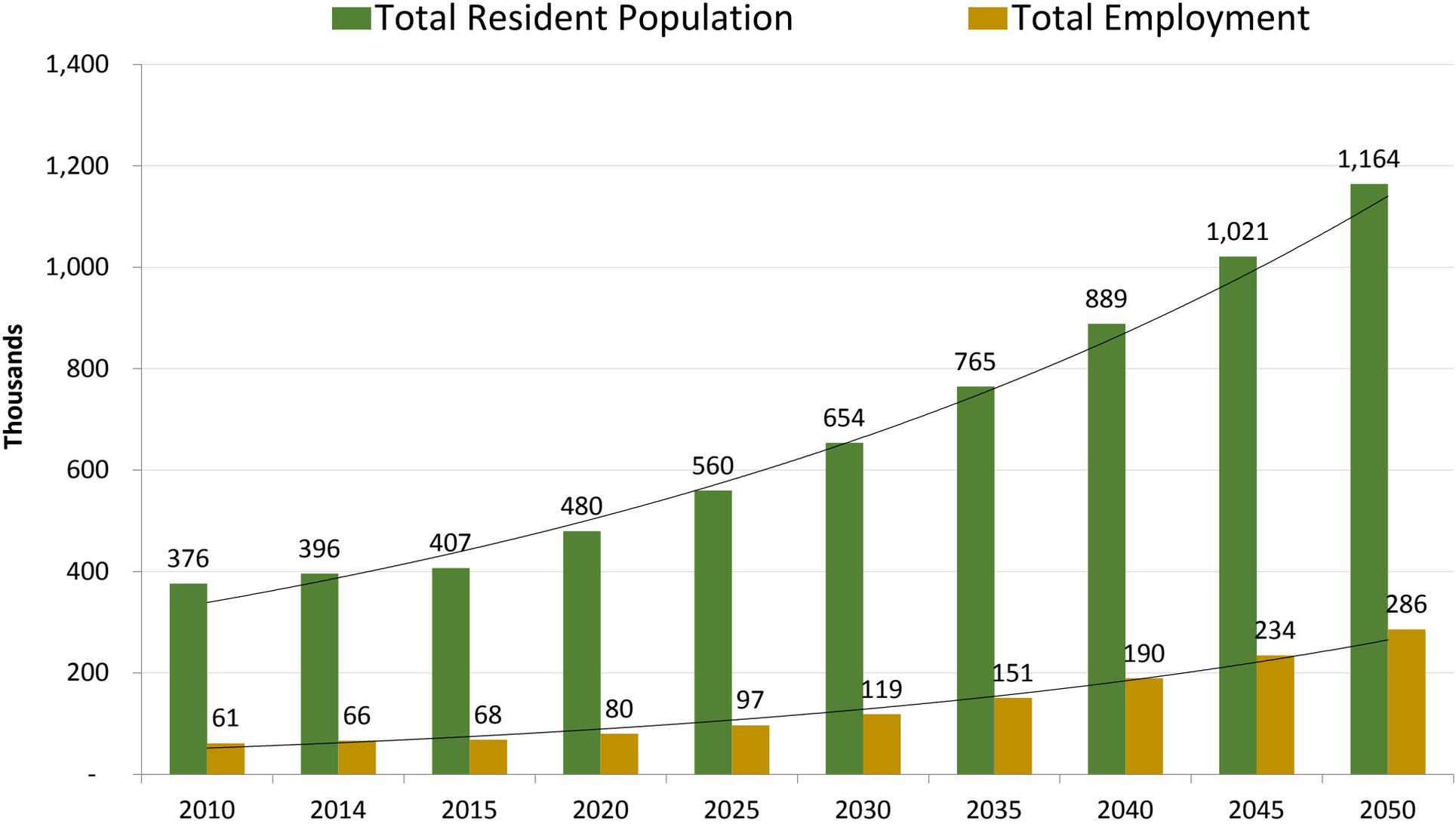
Changes in Worker Commuter Flows

	2010	2015	2020	2025	2030	2035	2040	2045	2050
Maricopa	-	-	(1,594)	(11,168)	(25,170)	(48,766)	(77,810)	(112,518)	(153,420)
Pinal	-	-	1,594	11,168	25,170	48,766	77,810	112,518	153,420

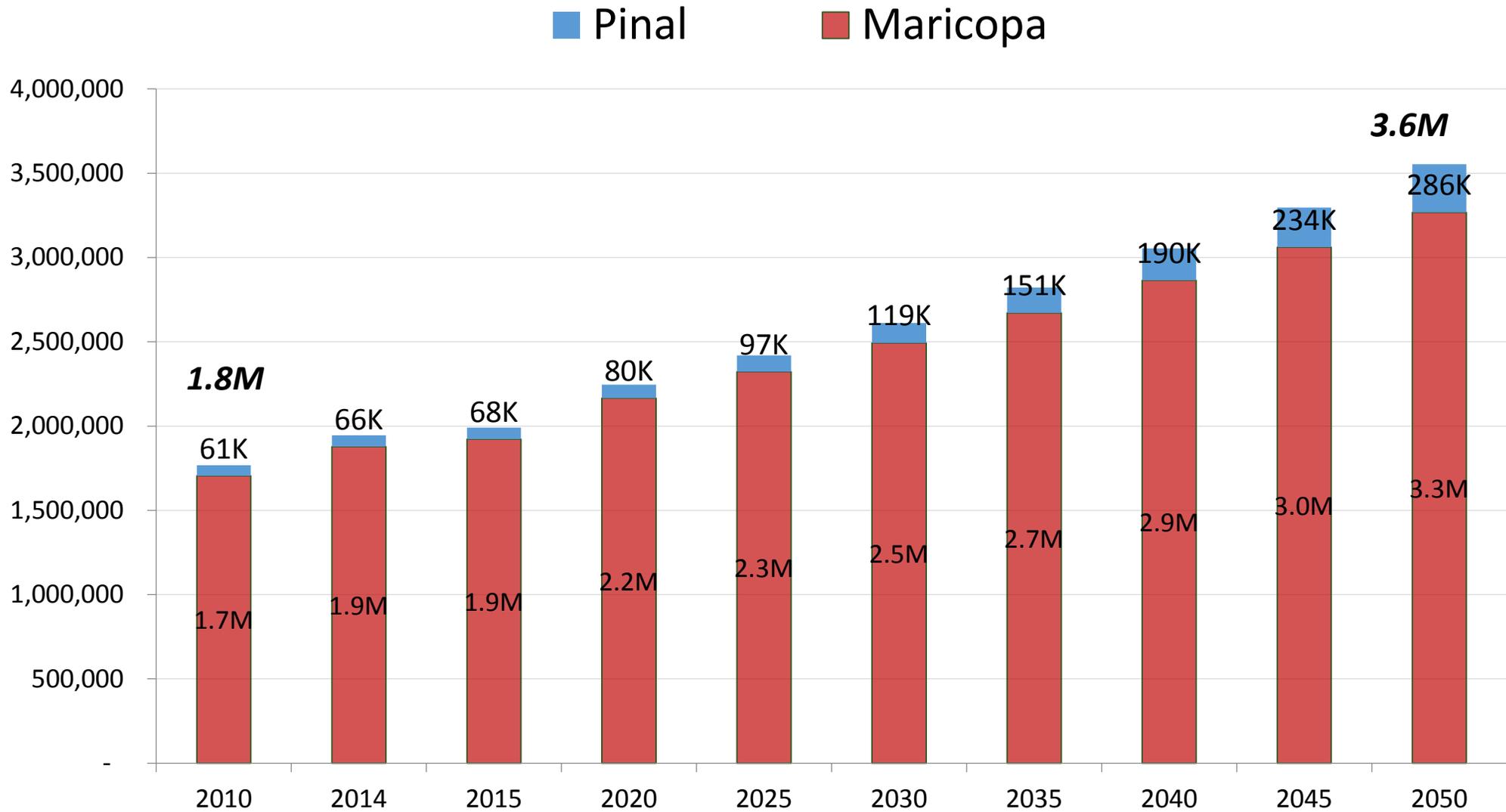
DRAFT Maricopa County: Population and Employment Projections



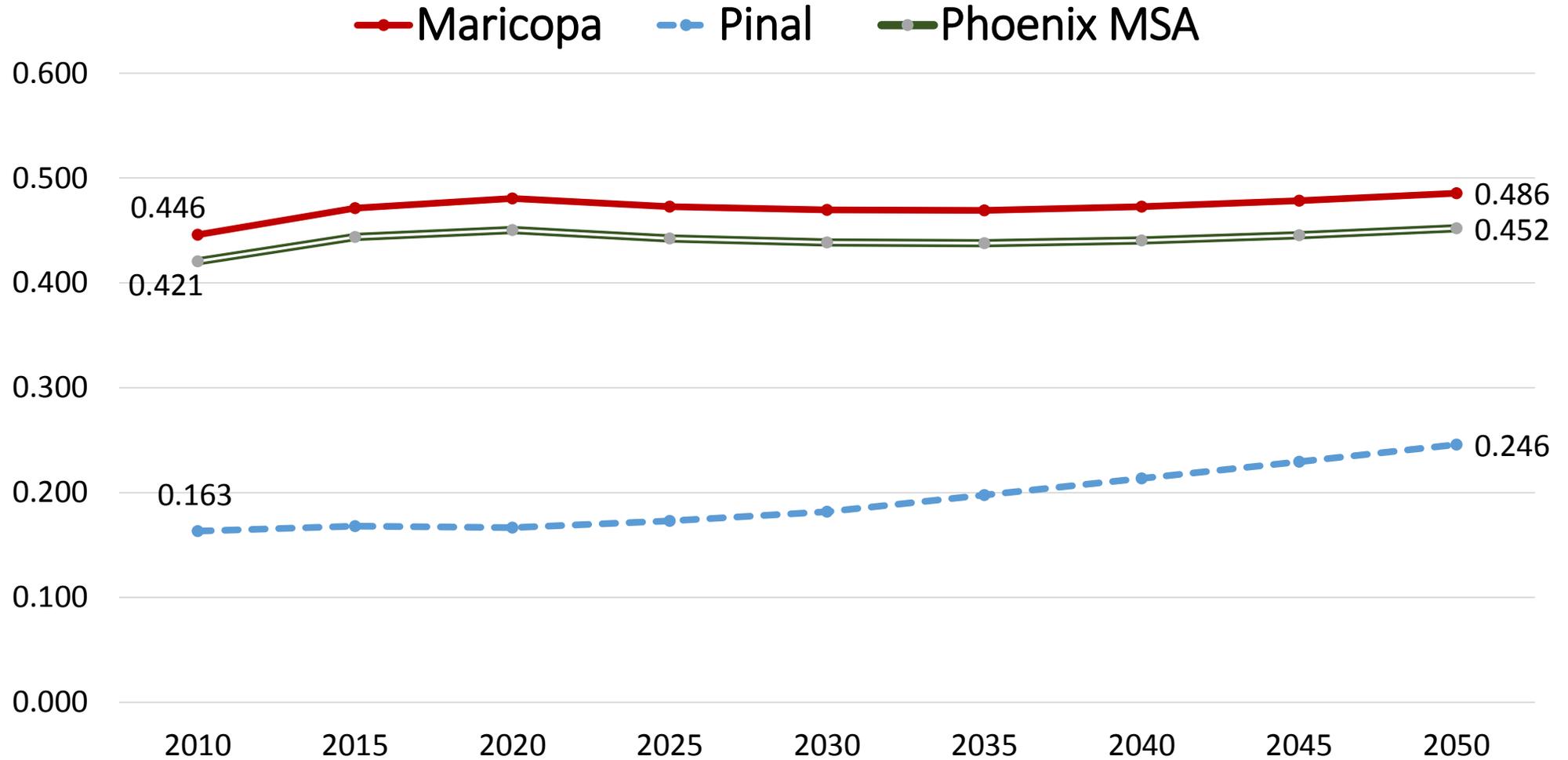
DRAFT Pinal County: Population and Employment Projections



DRAFT Phoenix MSA: Employment Projections



DRAFT Maricopa and Pinal Counties and Phoenix MSA Employment to Population Ratio



Subcommittee Recommendation

Recommend to MAG Management Committee to approve the Draft ADOA 2015 to 2050 population projections for Maricopa and Pinal Counties; and the draft 2015 to 2050 employment projections for Maricopa and Pinal Counties based on the revised methodology, provided the Maricopa and Pinal County control totals are within three percent of the final control total.

Maricopa County		
Year	Total Resident Population	Total Employment
2015	4,081,000	1,923,000
2020	4,506,000	2,165,000
2025	4,912,000	2,324,000
2030	5,307,000	2,490,000
2035	5,693,000	2,670,000
2040	6,059,000	2,863,000
2045	6,401,000	3,061,000
2050	6,728,000	3,267,000

Pinal County		
Year	Total Resident Population	Total Employment
2015	407,000	68,000
2020	480,000	80,000
2025	560,000	95,000
2030	654,000	121,000
2035	765,000	153,000
2040	889,000	191,000
2045	1,021,000	235,000
2050	1,164,000	286,000

2015 Population and Employment Projections

Questions or Comments?

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