

Population Update Census 2010 and July 1, 2018

	April 1, 2010	July 1, 2018	Change
Maricopa County	3,817,117	4,294,460	477,343
Pinal County	375,770	440,591	64,821
In MAG MPA	238,159	287,221	49,062
Yavapai County	211,033	228,965	17,932
In MAG MPA	7	560	553
MAG MPA total	4,055,283	4,582,241	526,958

Sources: U.S. Census Bureau,
Arizona State Demographer's Office,
Maricopa Association of Governments,
Central Arizona Governments

Adopted by MAG Regional Council, November 28, 2018

Pinal County jurisdiction estimates were created in collaboration with CAG staff

See attached document for methodology

Jurisdiction Population Update

Census 2010 and July 1, 2018

Jurisdiction	Total population			Change April 1, 2010 to July 1, 2018		Change since July 1, 2015	
	April 1, 2010 (Census 2010)	July 1, 2015	July 1, 2018	Change	Annual percent change	Change	Annual percent change
Maricopa County							
...Apache Junction	294	305	317	23	0.92%	12	1.29%
...Avondale	76,238	79,476	82,605	6,367	0.98%	3,129	1.30%
...Buckeye	50,876	62,541	76,145	25,269	5.01%	13,604	6.78%
...Carefree	3,363	3,566	3,722	359	1.24%	156	1.44%
...Cave Creek	5,015	5,543	5,760	745	1.69%	217	1.29%
...Chandler	236,326	245,168	262,322	25,996	1.27%	17,154	2.28%
...El Mirage	31,797	33,655	34,292	2,495	0.92%	637	0.63%
...Fort McDowell	971	1,006	1,019	48	0.59%	13	0.43%
...Fountain Hills	22,489	23,508	24,029	1,540	0.81%	521	0.73%
...Gila Bend	1,922	1,991	2,014	92	0.57%	23	0.38%
...Gila River	2,994	3,104	3,143	149	0.59%	39	0.42%
...Gilbert	208,352	233,881	253,036	44,684	2.38%	19,155	2.66%
...Glendale	226,721	236,222	241,844	15,123	0.79%	5,622	0.79%
...Goodyear	65,275	75,550	84,659	19,384	3.20%	9,109	3.87%
...Guadalupe	5,523	6,093	6,342	819	1.69%	249	1.34%
...Litchfield Park	5,476	6,152	6,689	1,213	2.45%	537	2.83%
...Mesa	439,041	466,450	488,925	49,884	1.31%	22,475	1.58%
...Paradise Valley	12,820	13,735	14,011	1,191	1.08%	276	0.67%
...Peoria	154,058	162,055	176,118	22,060	1.64%	14,063	2.81%
...Phoenix	1,447,128	1,536,015	1,597,738	150,610	1.21%	61,723	1.32%
...Queen Creek	25,912	32,959	43,189	17,277	6.39%	10,230	9.43%
...Salt River	6,289	6,671	6,798	509	0.95%	127	0.63%
...Scottsdale	217,385	233,524	245,417	28,032	1.48%	11,893	1.67%
...Surprise	117,517	126,343	132,852	15,335	1.50%	6,509	1.69%
...Tempe	161,719	173,868	185,301	23,582	1.66%	11,433	2.15%
...Tolleson	6,545	6,895	7,017	472	0.85%	122	0.59%
...Wickenburg	6,363	6,681	6,946	583	1.07%	265	1.31%
...Youngtown	6,156	6,510	6,590	434	0.83%	80	0.41%
...Unincorporated	272,552	286,972	295,620	23,068	0.99%	8,648	0.99%
Pinal County							
...Apache Junction	35,546	38,278	40,294	4,748	1.53%	2,016	1.73%
...Florence*	25,536	26,422	27,507	1,971	0.91%	1,085	1.35%
...Gila River	8,718	8,802	8,850	132	0.18%	48	0.18%
...Maricopa city	43,482	46,409	52,117	8,635	2.22%	5,708	3.94%
...Queen Creek*	449	458	6,072	5,623	37.12%	5,614	136.68%
...Unincorporated	178,799	196,844	211,973	33,174	2.08%	15,129	2.50%
.....in MAG MPO	124,428	138,016	152,381	27,953	2.49%	14,365	3.36%
Yavapai County							
...Peoria	7	0	0	-7		0	
...Wickenburg*	0	50	560	560		510	123.74%
Two Counties							
...Apache Junction	35,840	38,583	40,611	4,771	1.53%	2,028	1.72%
...Gila River	11,712	11,906	11,993		0.29%		0.24%
...Peoria	154,065	162,055	176,118	22,053	1.63%	14,063	2.81%
...Queen Creek	26,361	33,417	49,261	22,900	9.01%	15,844	13.81%
...Wickenburg	6,363	6,731	7,506			775	3.70%
MAG planning area	4,055,283	4,334,874	4,582,241	526,958	1.70%	247,367	5.71%

Note: Totals may not add due to rounding

Sources: U.S. Census Bureau, Arizona State Demographer's Office, Maricopa Association of Governments (MAG), Central Arizona Governments (CAG)

Adopted by MAG Regional Council, November 28, 2018

Pinal County jurisdiction estimates were created in collaboration with CAG staff

Counts for 2015 modified from previous release to reflect Special Census updates and residential completions updates

See attached document for methodology

* Growth in Pinal County portion of Queen Creek largely attributed to annexation

Municipality Population and Housing Unit Update

April 1, 2010 and July 1, 2018
Maricopa Association of Governments

Jurisdiction	Census 2010 (April 1, 2010)				July 1, 2015					July 1, 2015 - June 30, 2018				July 1, 2018 Update				Jurisdiction
	Population			Housing Units	Population			Housing Units	Household population per housing unit	Net Residential Completions	Annexed Housing Units	Annexed Household Population	Change in Group Quarters	Population			Housing Units	
	Total	Household	Group Quarter		Total	Household	Group Quarter							Total	Household	Group Quarter		
Maricopa County																		Maricopa County
...Apache Junction	294	294	0	293	305	305	0	293	1.04	8	0	0	0	317	317	0	301	...Apache Junction
...Avondale	76,238	76,078	160	27,001	79,476	79,336	140	27,185	2.92	723	2	2	-13	82,605	82,478	127	27,910	...Avondale
...Buckeye	50,876	45,782	5,094	18,207	62,541	56,862	5,679	21,444	2.65	4,795	4	10	-1	76,145	70,467	5,678	26,243	...Buckeye
...Carefree	3,363	3,316	47	2,251	3,566	3,519	47	2,306	1.53	72	0	0	0	3,722	3,675	47	2,378	...Carefree
...Cave Creek	5,015	5,015	0	2,579	5,543	5,543	0	2,753	2.01	72	0	0	0	5,760	5,760	0	2,825	...Cave Creek
...Chandler	236,326	235,780	546	94,472	245,168	244,703	465	99,562	2.46	5,655	2	2	-17	262,322	261,874	448	105,219	...Chandler
...El Mirage	31,797	31,784	13	11,326	33,655	33,642	13	11,574	2.91	72	0	0	0	34,292	34,279	13	11,646	...El Mirage
...Fort McDowell	971	971	0	308	1,006	1,006	0	308	3.27	0	0	0	0	1,019	1,019	0	308	...Fort McDowell
...Fountain Hills	22,489	22,307	182	13,167	23,508	23,326	182	13,293	1.75	127	0	0	0	24,029	23,847	182	13,420	...Fountain Hills
...Gila Bend	1,922	1,922	0	943	1,991	1,922	0	943	2.11	-1	0	0	0	2,014	2,014	0	942	...Gila Bend
...Gila River	2,994	2,984	10	835	3,104	3,094	10	836	3.70	0	0	0	0	3,143	3,133	10	836	...Gila River
...Gilbert	208,352	208,048	304	74,870	233,881	233,130	751	83,172	2.80	5,705	3	13	0	253,036	252,285	751	88,880	...Gilbert
...Glendale	226,721	223,464	3,257	90,505	236,222	233,162	3,060	91,172	2.56	884	8	18	366	241,844	238,418	3,426	92,064	...Glendale
...Goodyear	65,275	61,447	3,828	25,027	75,550	71,129	4,421	29,044	2.45	3,312	0	0	-4	84,659	80,242	4,417	32,356	...Goodyear
...Guadalupe	5,523	5,508	15	1,376	6,093	6,078	15	1,466	4.15	41	0	0	0	6,342	6,327	15	1,507	...Guadalupe
...Litchfield Park	5,476	5,439	37	2,716	6,152	6,115	37	2,948	2.07	219	0	0	0	6,689	6,652	37	3,167	...Litchfield Park
...Mesa	439,041	435,503	3,538	201,173	466,450	462,476	3,974	206,399	2.24	7,440	0	0	-255	488,925	485,206	3,719	213,839	...Mesa
...Paradise Valley	12,820	12,789	31	5,643	13,735	13,704	31	5,838	2.35	43	0	0	0	14,011	13,980	31	5,881	...Paradise Valley
...Peoria	154,058	152,831	1,227	64,814	162,055	159,661	2,394	66,931	2.39	4,986	0	0	0	176,118	173,724	2,394	71,917	...Peoria
...Phoenix	1,447,128	1,425,390	21,738	590,612	1,536,015	1,508,176	27,839	603,333	2.50	15,711	8	24	2,855	1,597,738	1,567,044	30,694	619,052	...Phoenix
...Queen Creek	25,912	25,896	16	8,394	32,959	32,582	377	10,182	3.20	3,027	3	9	0	43,189	42,812	377	13,212	...Queen Creek
...Salt River	6,289	6,284	5	2,607	6,671	6,666	5	2,670	2.50	17	0	0	0	6,798	6,793	5	2,687	...Salt River
...Scottsdale	217,385	216,226	1,159	124,001	233,524	232,387	1,137	128,667	1.81	4,903	0	0	-13	245,417	244,293	1,124	133,570	...Scottsdale
...Surprise	117,517	117,243	274	52,586	126,343	126,069	274	54,592	2.31	2,101	1	1	0	132,852	132,578	274	56,694	...Surprise
...Tempe	161,719	151,531	10,188	73,462	173,868	162,642	11,226	76,126	2.14	4,860	0	0	-1,138	185,301	175,213	10,088	80,986	...Tempe
...Tolleson	6,545	6,545	0	2,169	6,895	6,895	0	2,206	3.13	11	0	0	0	7,017	7,017	0	2,217	...Tolleson
...Wickenburg	6,363	6,174	189	3,617	6,681	6,492	189	3,669	1.77	47	25	97	0	6,946	6,757	189	3,741	...Wickenburg
...Youngtown	6,156	5,953	203	2,831	6,510	6,307	203	2,896	2.18	0	0	0	0	6,590	6,387	203	2,896	...Youngtown
...Unincorporated	272,552	271,436	1,116	141,494	286,972	285,856	1,116	143,762	1.99	2,588	-56	-176	0	295,620	294,504	1,116	146,294	...Unincorporated
Pinal County																		Pinal County
...Apache Junction	35,546	35,263	283	22,271	38,278	37,973	305	23,182	1.64	420	0	0	8	40,294	39,981	313	23,602	...Apache Junction
...Florence*	25,536	7,836	17,700	5,224	26,422	9,321	17,101	6,007	1.55	561	0	0	0	27,507	10,540	16,967	6,568	...Florence*
...Gila River	8,718	8,489	229	2,403	8,802	8,573	229	2,445	3.51	0	0	0	0	8,850	8,621	229	2,445	...Gila River
...Maricopa city	43,482	43,482	0	17,240	46,409	46,409	0	18,483	2.51	1,561	0	0	70	52,117	52,047	70	20,044	...Maricopa city
...Queen Creek	449	449	0	163	458	458	0	171	2.68	51	1,633	5,277	0	6,072	6,072	0	1,855	...Queen Creek
...Unincorporated	178,799	178,347	452	78,056	196,844	196,327	517	82,854	2.37	5,393	-1,633	-5,277	240	211,973	211,216	757	86,614	...Unincorporated
Yavapai County																		Yavapai County
...Peoria	7	7	0	4	0	0	0	1	0.00	0	0	0	0	0	0	0	1	...Peoria
...Wickenburg	0	0	0	2	50	50	0	29	0.00	297	24	56	0	560	560	0	350	...Wickenburg
Two Counties																		Two Counties
...Apache Junction	35,840	35,557	283	22,564	38,583	38,278	305	23,475	2.68	428	0	0	8	40,611	40,298	313	23,903	...Apache Junction
...Gila River	11,712	11,473	239	3,238	11,906	11,667	239	3,281	7.21	0	0	0	0	11,993	11,754	239	3,281	...Gila River
...Peoria	154,065	152,838	1,227	64,818	162,055	159,661	2,394	66,932	2.39	4,986	0	0	0	176,118	173,724	2,394	71,918	...Peoria
...Queen Creek	26,361	26,345	16	8,557	33,417	33,040	377	10,353	5.88	3,078	1,636	5,286	0	49,261	48,884	377	15,067	...Queen Creek
...Wickenburg	6,363	6,174	189	3,619	6,731	6,542	189	3,698	1.77	344	49	153	0	7,506	7,317	189	4,091	...Wickenburg

Note: Totals may not add due to rounding

Unincorporated Pinal County includes portions outside the MAG Planning Area

* For Florence, the GQ inventory is used rather than the change.

Sources: U.S. Census Bureau, Arizona State Demographer's Office, Maricopa Association of Governments (MAG), Central Arizona Governments (CAG)

Adopted by MAG Regional Council, November 28, 2018

Pinal County jurisdiction estimates were created in collaboration with CAG staff

Counts for 2015 modified from previous release to reflect Special Census updates and revised housing completions

See attached document for methodology

County-level estimates

County level estimates are produced by the State Demographer’s Office in the Office of Economic Opportunity (OEO) and serve as control totals for estimating household population at the jurisdiction-level. Estimates are generated using the *Composite Method*, wherein administrative data is tracked and applied to age-specific cohorts. The Composite Method methods relies on the following data sources:

Population cohort	Data sources
Age 0 – 4	Births in last 5 years Deaths among 0-4 year olds in last 5 years ACS geographic mobility
Age 5 – 17	October 1 school enrollment counts from Arizona Department of Education (ADE)
Age 18-64	Active drivers licenses and ID cards from MVD
Age 65+	Social security enrollment Medicare enrollment

Jurisdiction-level estimates

The following describes the methodology applied to allocate county-level estimates to jurisdictions. This includes steps needed to account for special censuses conducted by Buckeye, Chandler, Queen Creek, Gilbert, Goodyear, Maricopa (city) and Peoria.

1) Roll-back special census counts from October 1, 2015 to July 1, 2015

This step estimates what the special census counts would be had they been conducted for July 1, 2015 rather than October 1, 2015. The methodology is as follows:

- 1) Calculate persons in households per residential unit from special census results.
- 2) Collect residential completions for July 1, 2015 to September 30, 2015. The completion data reflects MAG’s recent *catchup* efforts to collect missing completion data.
- 3) Estimate household population added from July 1, 2015 to October 1, 2015 by multiplying net completions by the household persons per residential unit factor.
- 4) Subtract the estimated household population growth for July 1 to October 1 from special census household population counts to obtain a July 1, 2015 household population estimate.
- 5) Subtract the net completions for July 1, 2015 to October 1, 2015 from special census residential unit counts to obtain a July 1, 2015 residential unit estimate.
- 6) Special census group quarter counts are not rolled back and used as reported.

2) Obtain base estimates for July 1, 2015

These steps generate the 2015 base used to generate the 2017 update. This is used in lieu of Census 2010 to account for the special census conducted by some jurisdictions. The method employed is as follows:

- 1) Obtain initial housing unit method (HUM) estimates for July 1, 2015:
 - a. Collect residential completions, group quarters facility changes and annexations for April 1, 2010 to June 30, 2015. Residential completions reflect MAG's recent *catchup* effort to collect missing completion data. Update counts for residential units, annexed residential units and annexed population.
 - b. Update the group quarters population by calculating the change in tracked group quarters facilities from April 1, 2010 to July 1, 2015 and adding it to the Census 2010 group quarters count.
 - c. Obtain the un-constrained household population by multiplying the non-annexed housing units by Census 2010 persons per household and occupancy rates and adding this to the annexed population.
 - d. Bench the unconstrained household population to match the July 1, 2015 county-level household population control.
 - e. Obtain total population by adding group quarter populations and household populations.
- 2) For jurisdictions that conducted a special census, replace estimates with the rolled-back special census counts for residential units, group quarters population, household population and total population as obtained through steps in Step 1.
- 3) Calculate a revised county-level group quarters population total. This is obtained by adding the sum of the special census group quarters counts to the sum of the group quarters estimates for cities that did not conduct a special census.
- 4) Calculate a revised county-level household population total. This is obtained by subtracting the revised group quarter population from the total population.
- 5) Adjust household population totals to match the county-level household population total. For cities that conducted a special census, this will be proportional to the rolled backs special census counts derived in Step 1. For cities that did not conduct a special census, this will be proportional to the original estimates derived in Step 2.1.

3) Recalculate HUM factors

Typically, the housing unit method (HUM) is applied by multiplying the housing stock by the occupancy rate and persons per households from the previous census. However, given that the base itself has been adjusted we are using a simpler persons in households per residential unit factor, calculated directly from the revised July 1, 2015 base, derived in Step 2. This is simply the household population for the revised base divided by the residential units in the revised base.

4) Estimate jurisdiction population for July 1, 2018

To obtain OEO/MAG estimates for July 1, 2018:

- 1) Collect residential completions, group quarters facility changes and annexations for July 1, 2015 to June 30, 2018. Update counts for residential units, annexed residential units and annexed population.
- 2) Update the group quarters population by calculating the change in tracked group quarters facilities from July 1, 2015 to July 1, 2018 and adding it to the estimated group quarters population for July 1, 2018.

** For the Town of Florence, group quarters population is obtained directly from the tracked group quarters facilities.*

- 3) Obtain the un-constrained household population by multiplying the non-annexed housing units by the household population per residential unit factor and adding this to the annexed population.
- 4) Bench the unconstrained household population to match the county-level household population control.
- 5) Obtain a final population by adding group quarter populations and household populations.