

Queen Creek Unified School District

Demographic and Enrollment Analysis Update

Governing Board Presentation

January 10, 2017

Presented by:



QCUSD

Strategic Plan

Excellence thru Leadership: Engage, Empower, Excel

Objective: 100% of students will achieve a minimum of one year of academic growth annually.

Strategy 1
Personal
action plans

Strategy 2
Real-world
hands-on
learning

Strategy 3
Collect/analyze
data to guide
our decisions in
program
systems

Strategy 4
Facilities/IT/
Support
Enhance our
ability to
implement
strategic plan
and achieve
mission

Strategy 5
Effective
implementation
of instructional
resources

Strategy 6
Develop
leadership skills
(students and
staff)

Strategy 7
Character
development in
student's
education
experience

Strategy 8
Staff
skills/support
to maximize
learning time
for students

Objectives

1. Review updated demographic highlights, accelerated enrollment increases, and demographic report conclusions
2. Review residential development activity as it relates to projected enrollment projections for QCUSD
3. Consider key dates (merge slide) relative to enrollment/school space projections for QCUSD

Study Scope

Enrollment Trends

- Grade and level characteristics
- Geographic distribution
- Alternative providers

Demographic Characteristics

- Population characteristics
- Household type and age structure
- Housing supply and occupancy rates

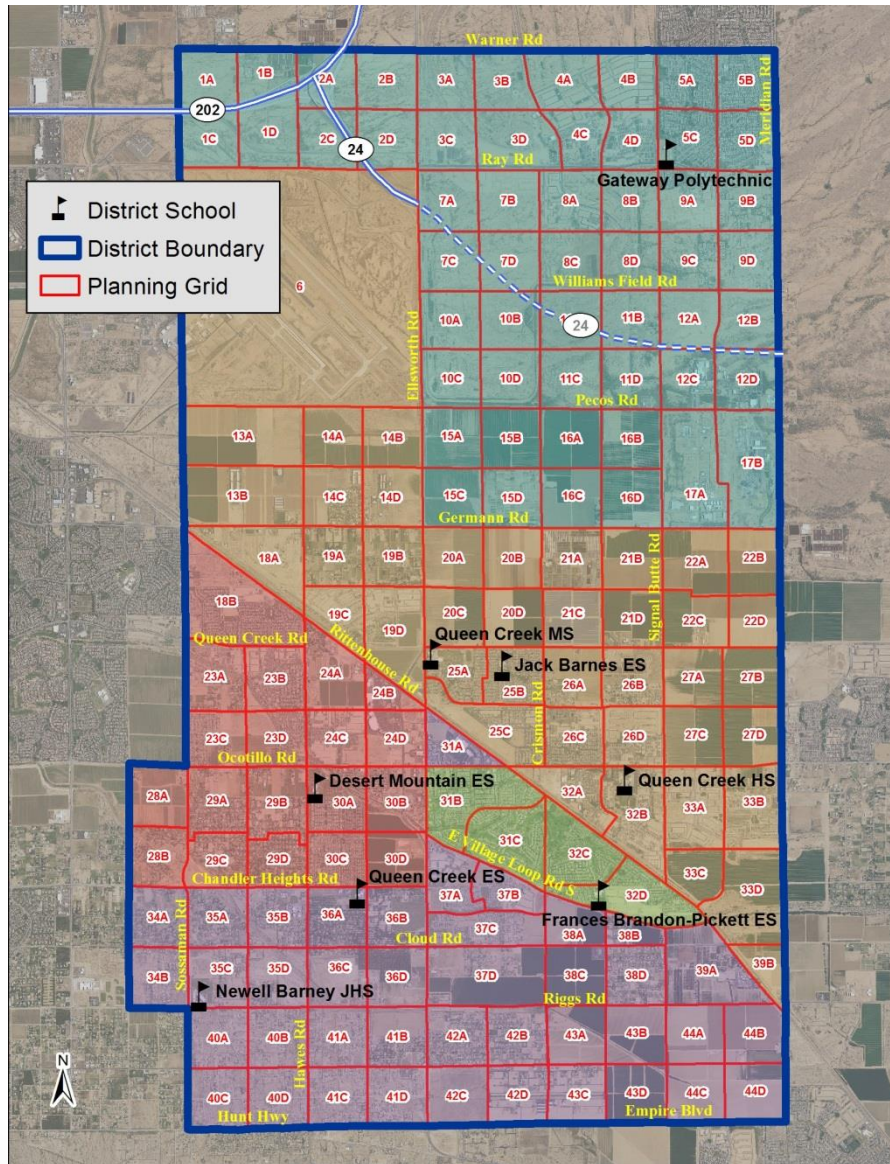
Residential Development Impacts

- Current development activity
- Housing market conditions
- Future development potential

Enrollment Projections

- District
- Sub-district

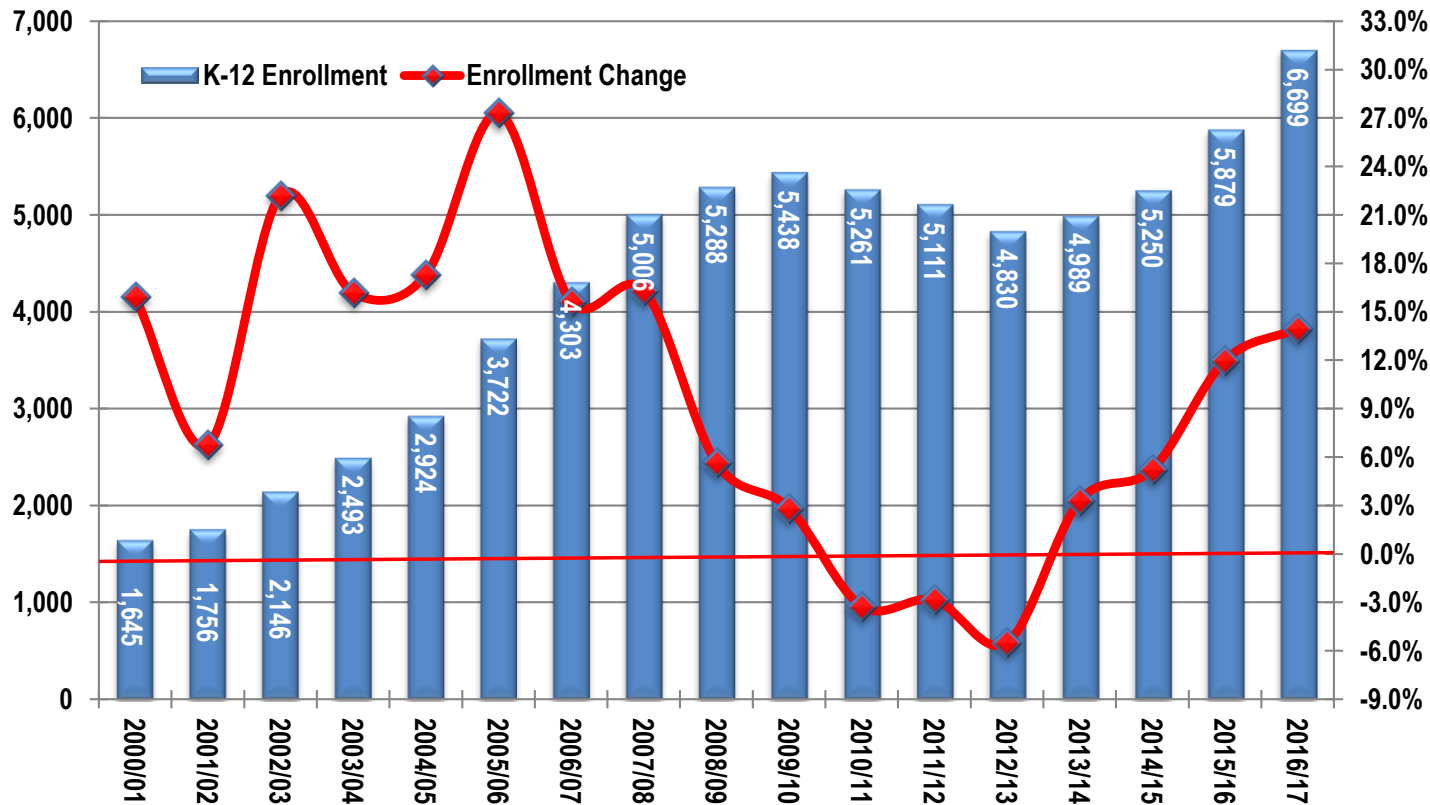
Planning Geography



Quarter-section based planning “grids” in the developable portion of the District

Unlike school attendance areas, grids remain unchanged over time providing the basis for the sub-district enrollment projections

40th Day Headcount Enrollment



Source: Arizona Department of Education; Queen Creek Unified School District.

Enrollment grew by about 230% (3,800 students) between 2000/01 and 2009/10 and then fell by about 600 students (11%) through 2012/13 as a result of the recession

Since 2012/13, District enrollment has grown by nearly 1,900 students (39%) representing a compound annual growth rate of 8.5% including 820 more students just this year

Recent Enrollment Change

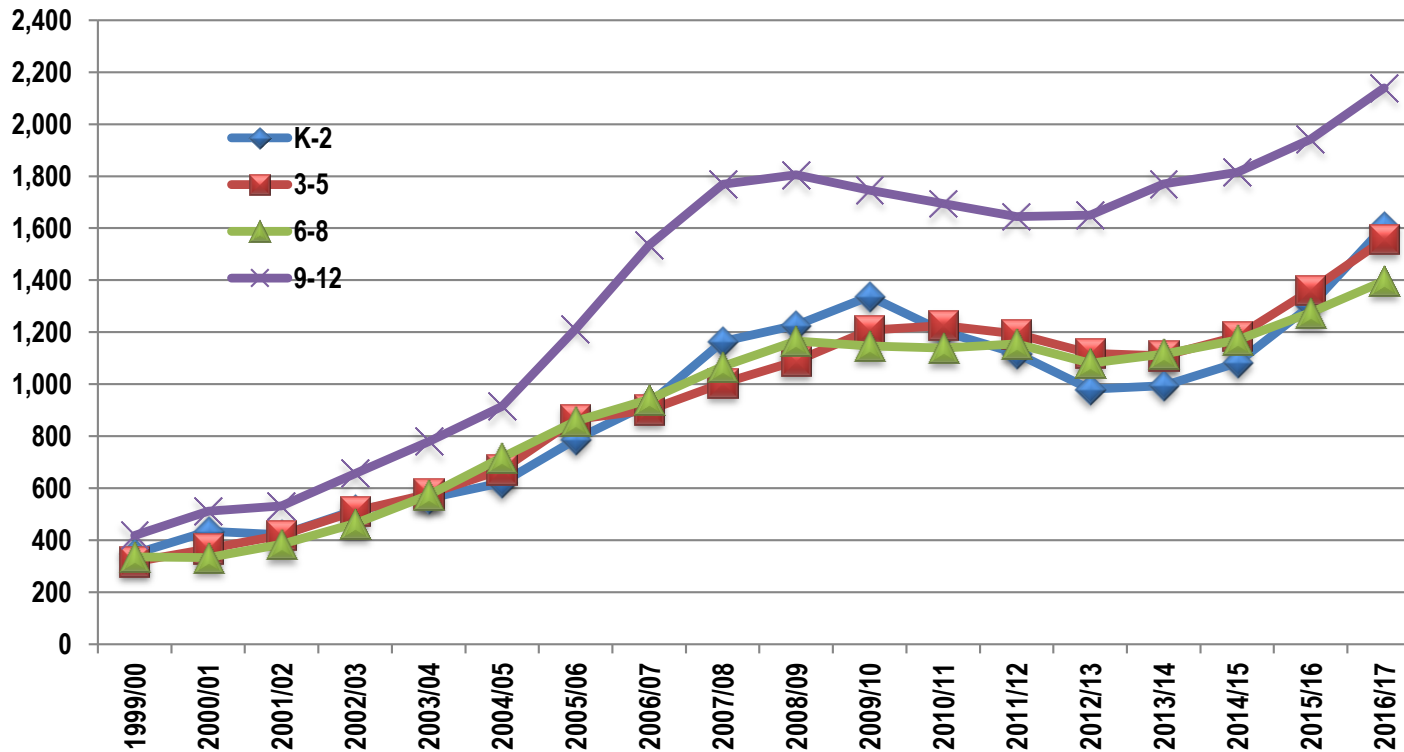
	Attendance Area (K-12)			AE Proj. 2016/17	Difference	Percent Difference
	2010/11	2015/16	2016/17			
Elementary K-5						
Desert Mountain	525	501	520	522	2	0.5%
Frances Brandon Pickett	562	559	598	602	4	0.7%
Jack Barnes	585	461	580	553	-27	-4.6%
Queen Creek	432	480	539	507	-32	-6.0%
Outside	324	326	400	366	-34	-8.5%
Total	2,428	2,327	2,637	2,551	-86	-3.3%
Gateway Polytechnic Academy K-8*	0	378	644	598	-46	-7.1%
Middle School 6-8						
Newell Barney Middle School	502	492	517	544	27	5.2%
Queen Creek Middle School	501	618	609	674	65	10.6%
Outside	136	122	153	118	-35	-22.6%
Total	1,139	1,232	1,279	1,336	57	4.5%
High School						
In District	1,245	1,510	1,667	1,727	60	3.6%
Outside	449	432	472	369	-103	-21.9%
Total	1,694	1,942	2,139	2,096	-43	-2.0%
District Total						
In District	4,352	4,999	5,674	5,728	54	0.9%
Outside	909	880	1,025	853	-172	-16.8%

Source: Applied Economics, 2016.

Enrollment increased by 820 students this year, 118 more than we projected last year, however the projection of in-District enrollment was only off by 54 students

In general, the in-District elementary-level (K-5) projections were slightly low, while both the middle and high school levels were slightly high

40th Day Enrollment Cohorts

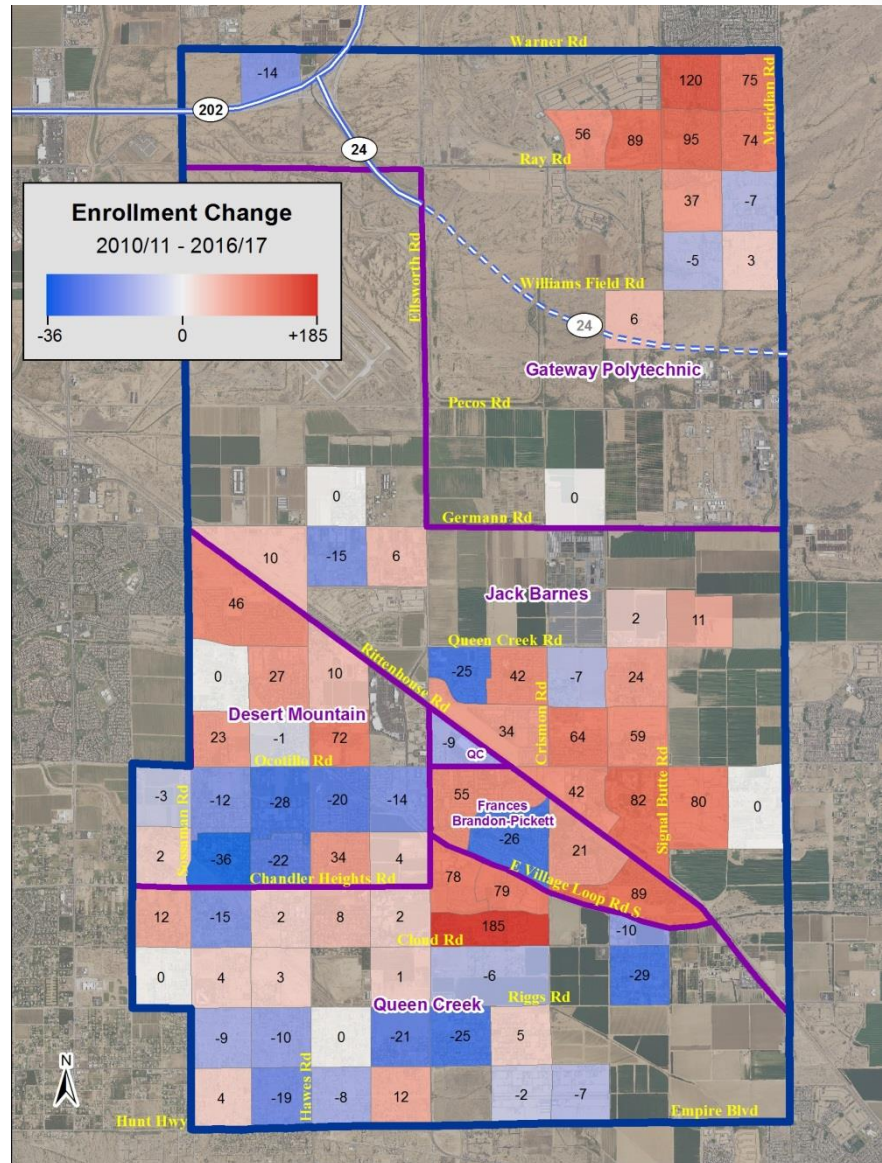
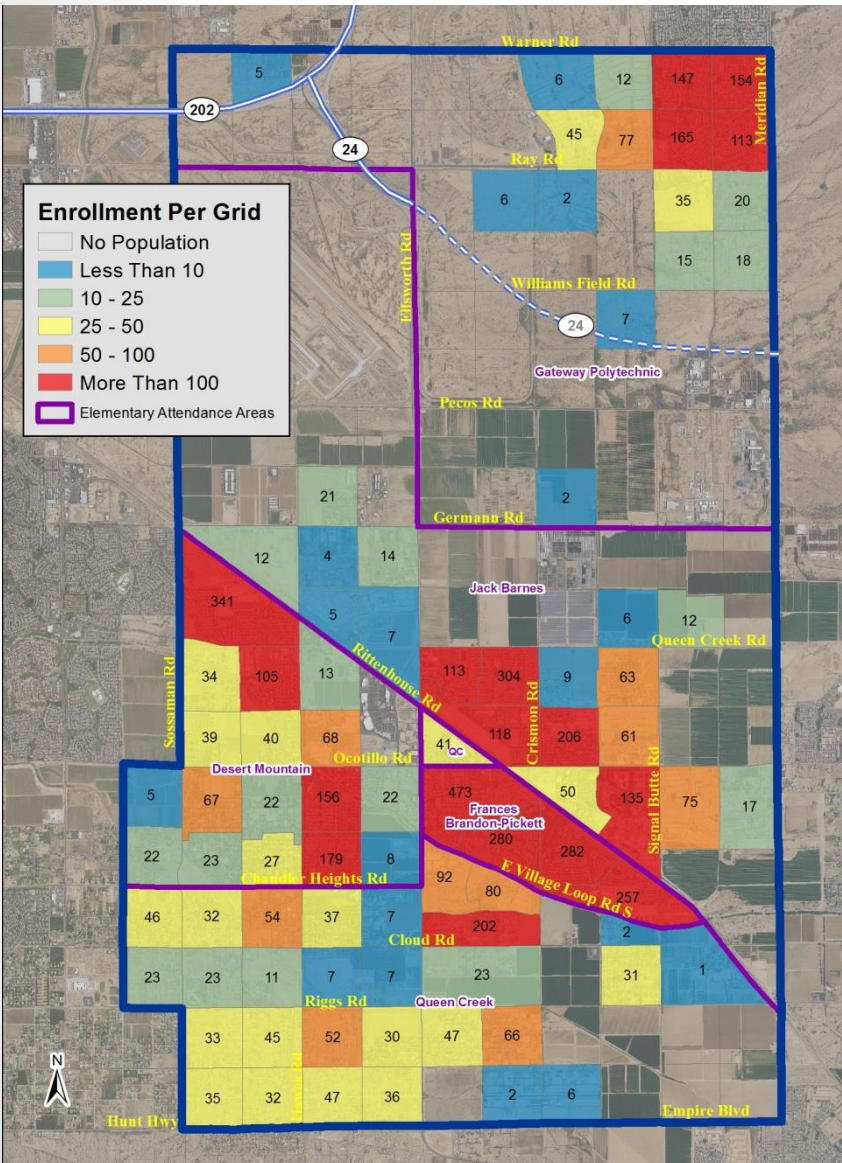


Source: Arizona Department of Education; Queen Creek Unified School District; Applied Economics.

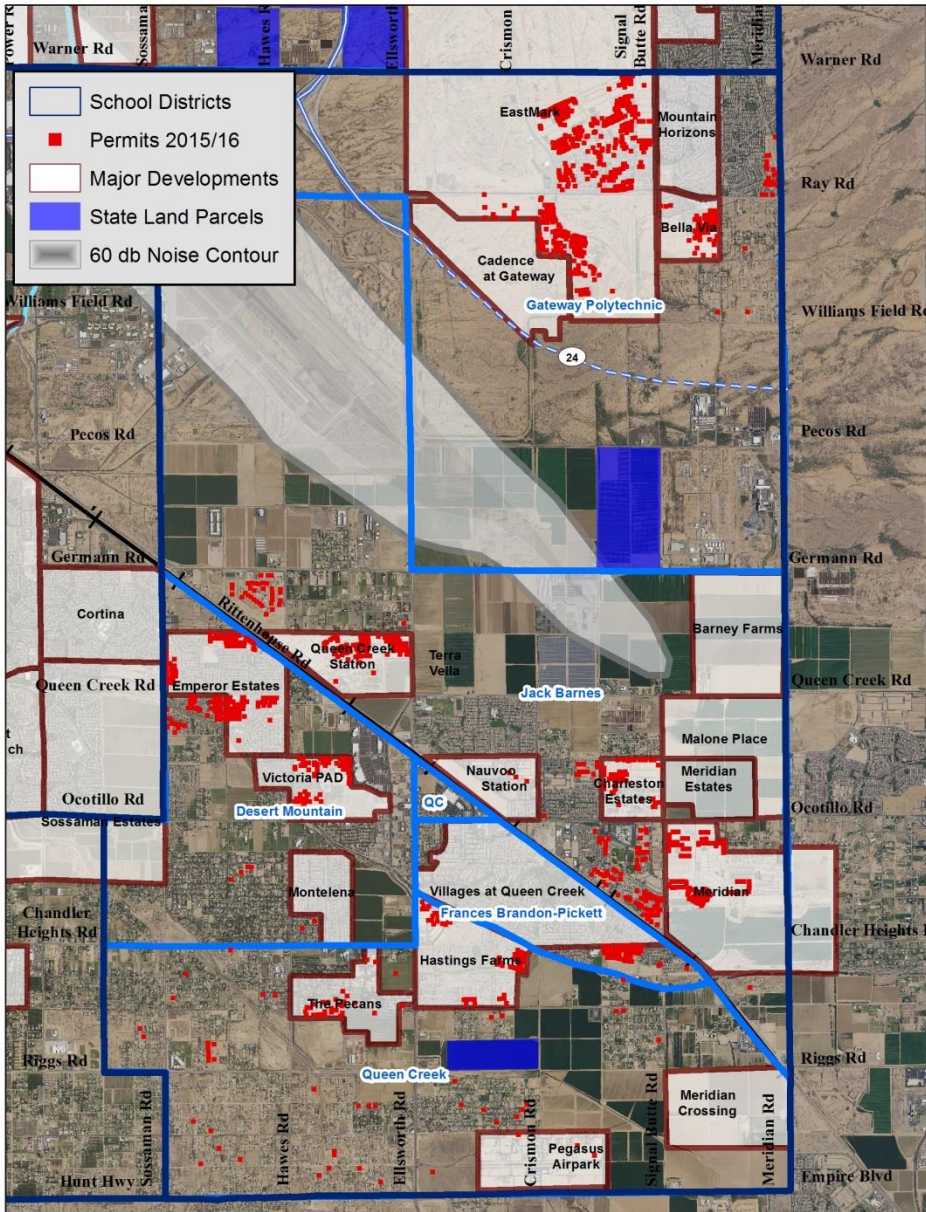
All the elementary grade cohorts experienced similar enrollment increases during the housing boom while high school enrollment increased much faster

The K-2 grade cohort surged during the boom, fell more during the bust and has increased much more again during the recovery

Distribution of Students



Recent Building Permits



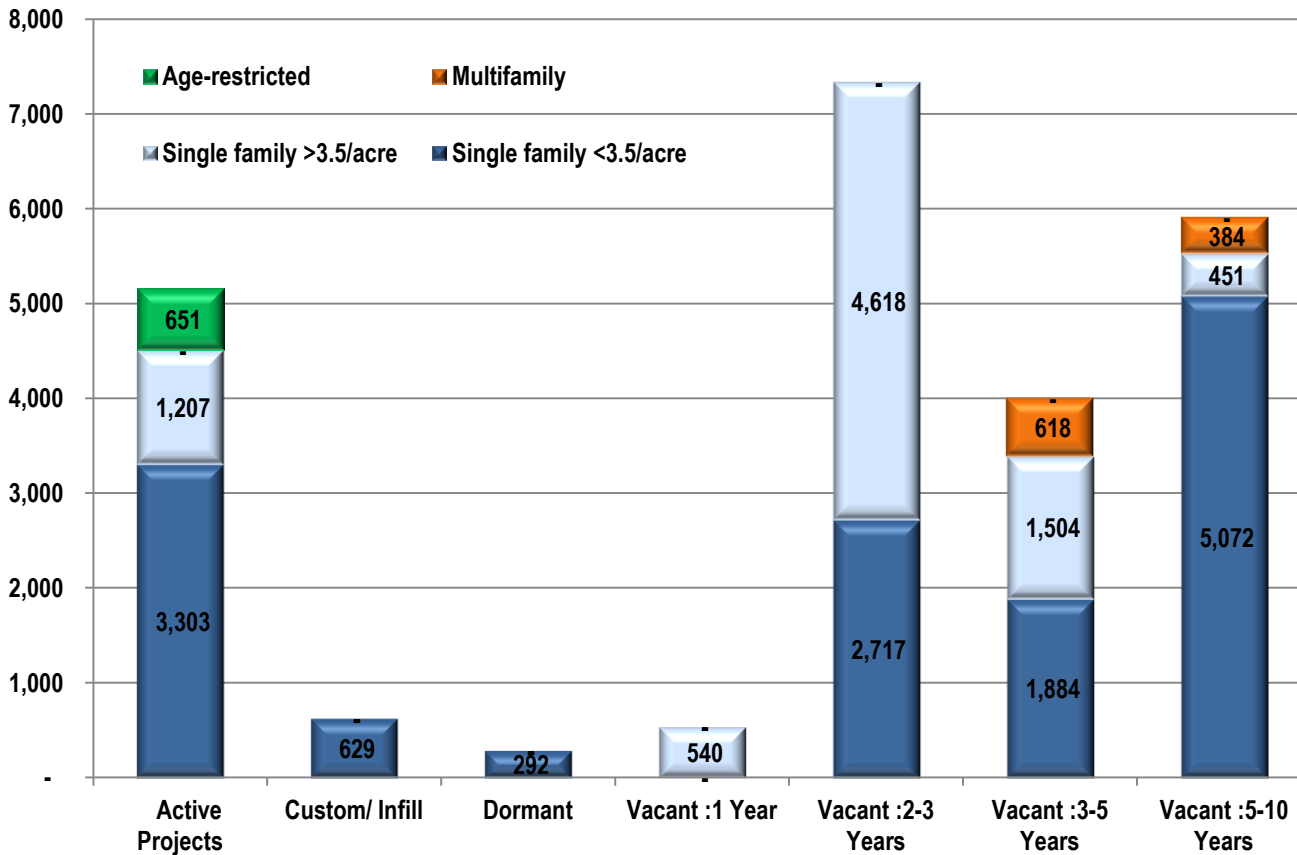
Over 7,500 housing units permitted in the last 10 years, 1,800 in 2015/16 alone

Nearly 2,000 new housing units expected during the 2016/17 school year

Eastmark had the highest growth levels in 2015/16, with Meridian Estates and Queen Creek Station also adding significant numbers of houses, as did now built out Emperor Estates

Residential Potential

Housing Units by Type and Timeline for Development

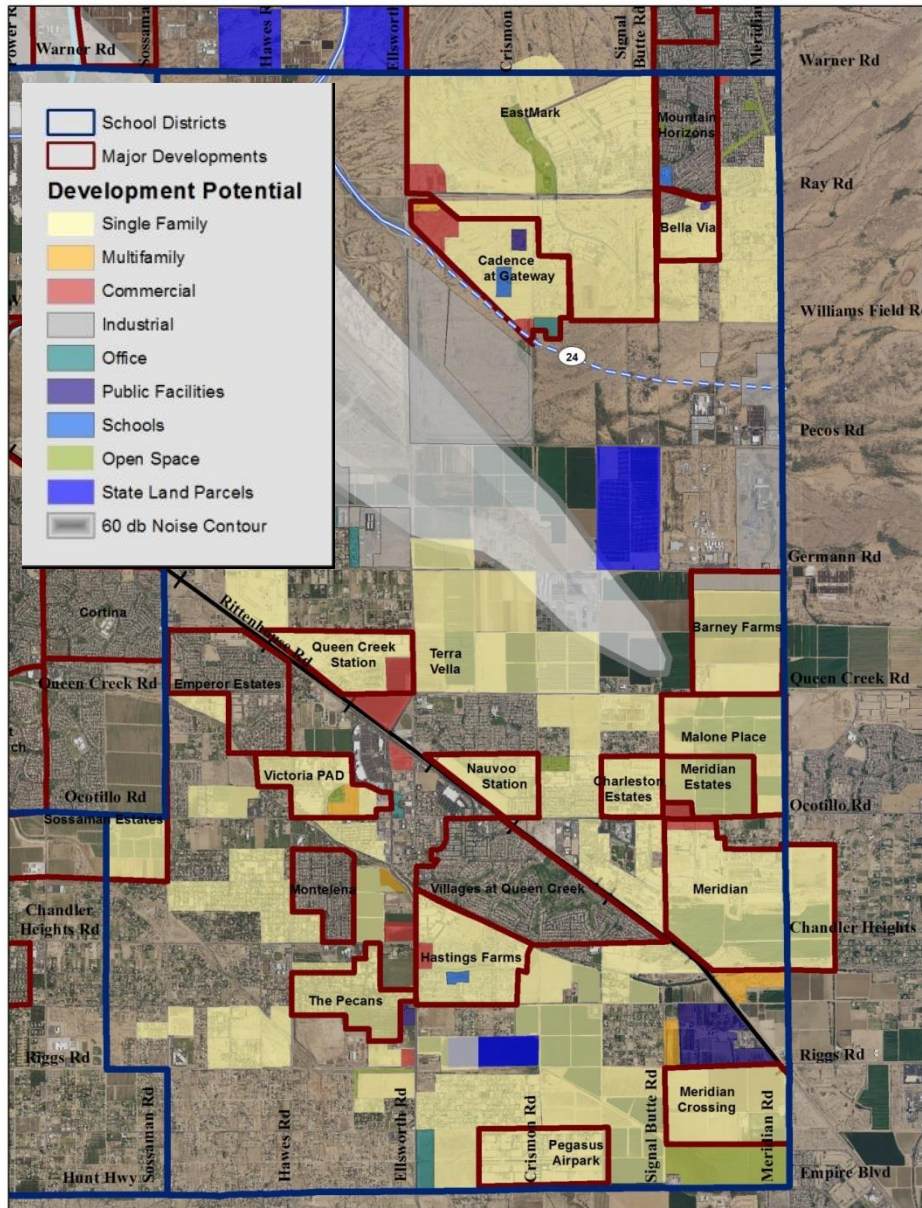


24,600-unit potential is over double the current inventory

Nearly 6,100 units possible in active, infill and dormant projects

Higher density housing will likely attract families with younger children

Development Potential

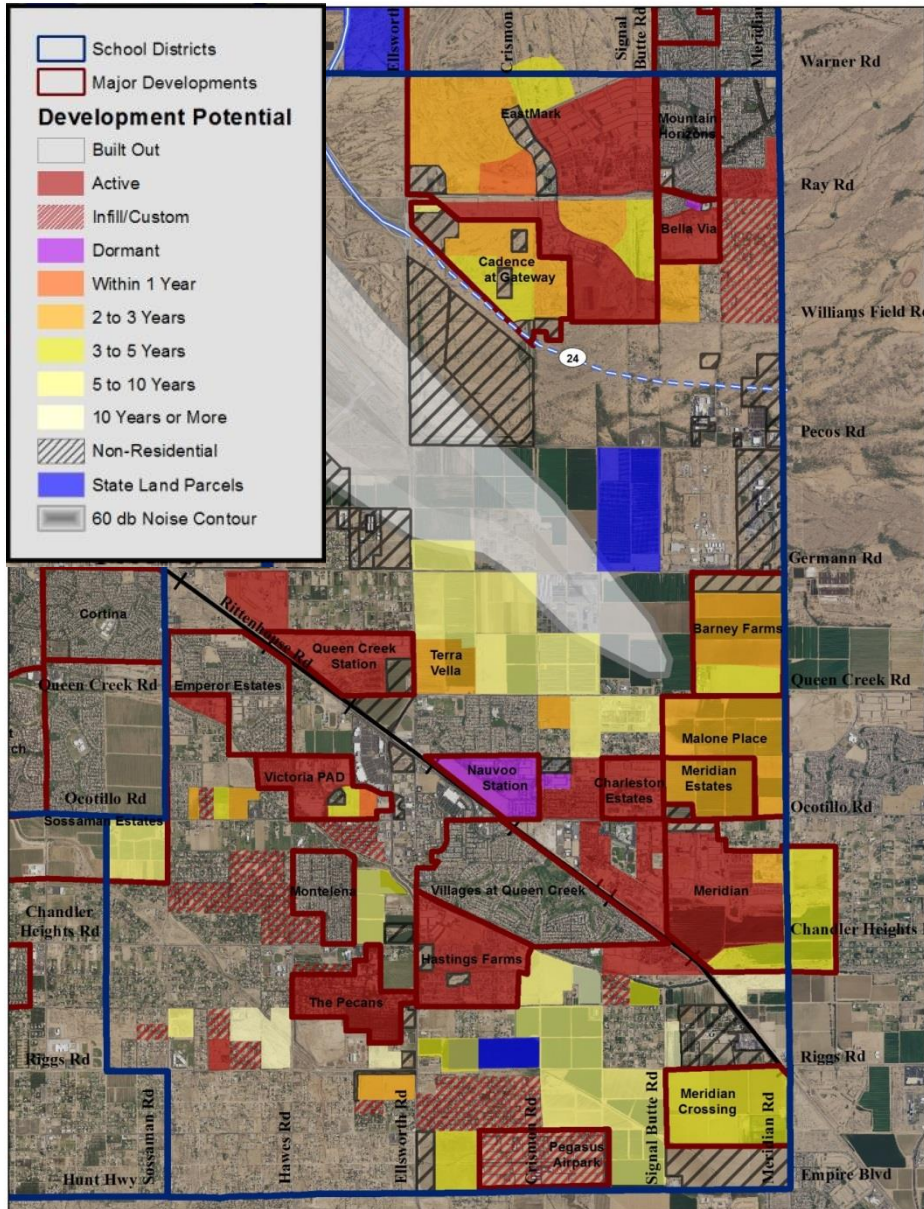


Major increase in development potential this year with re-zonings resulting from changes in airport noise contours

Most of the development potential is in the central and northern part of the District

Little multifamily building is planned in the near-term, but more will likely emerge in the future

Development Timing



Construction activity will remain strong as existing projects are joined by new developments

The northern area will continue to have high growth as Eastmark is joined by Cadence at Gateway

Newly approved projects in the central-eastern area should become active over the next 2 to 3 years

Demographic Projections

Year	Population	Housing Units		Households		Pop/HH
		Total*	New	Total	Change	
2010/11	26,325	8,801	261	7,891	173	3.336
2011/12	26,883	8,961	160	8,076	185	3.329
2012/13	28,071	9,337	376	8,459	383	3.318
2013/14	30,551	10,154	817	9,247	788	3.304
2014/15	33,028	10,963	809	10,035	788	3.291
2015/16	36,492	12,134	1,171	11,163	1,129	3.269
2016/17	41,583	13,936	1,802	12,849	1,686	3.236
2017/18	47,018	15,859	1,923	14,654	1,805	3.209
2018/19	52,765	17,876	2,017	16,553	1,899	3.188
2019/20	59,476	20,202	2,326	18,747	2,194	3.172
2020/21	67,035	22,857	2,655	21,257	2,510	3.154
2021/22	74,336	25,425	2,568	23,671	2,414	3.140
2022/23	80,721	27,627	2,202	25,748	2,078	3.135
2023/24	86,210	29,480	1,853	27,505	1,756	3.134
2024/25	91,540	31,361	1,881	29,291	1,786	3.125
2025/26	97,322	33,371	2,010	31,202	1,911	3.119
2026/27	102,436	35,095	1,724	32,849	1,647	3.118
2016/17 - 2026/27			21,159		20,000	

Source: Applied Economics, 2016.

Bolding Indicates Actuals

Housing additions likely to accelerate over the next 3 to 4 years

Current market conditions indicate a rise to over 2,000 units per year

Population per household expected to decline slightly

Enrollment Projections

Year	Households	School-Age Population *		K-12 Enrollment		Net Difference	Enrollment - Population Ratio
		Total	Per Household	Total	Per Household		
2010/11	7,891	6,714	0.851	5,261	0.667	1,453	0.784
2011/12	8,076	6,837	0.847	5,111	0.633	1,726	0.748
2012/13	8,459	7,114	0.841	4,830	0.571	2,284	0.679
2013/14	9,247	7,707	0.833	4,989	0.540	2,718	0.647
2014/15	10,035	8,297	0.827	5,250	0.523	3,047	0.633
2015/16	11,163	9,132	0.818	5,879	0.527	3,253	0.644
2016/17	12,849	10,338	0.805	6,699	0.521	3,639	0.648
2017/18	14,654	11,626	0.793	7,560	0.516	4,066	0.650
2018/19	16,553	12,997	0.785	8,507	0.514	4,490	0.655
2019/20	18,747	14,617	0.780	9,555	0.510	5,062	0.654
2020/21	21,257	16,419	0.772	10,740	0.505	5,679	0.654
2021/22	23,671	18,174	0.768	11,950	0.505	6,224	0.658
2022/23	25,748	19,744	0.767	12,952	0.503	6,792	0.656
2023/24	27,505	21,125	0.768	13,734	0.499	7,391	0.650
2024/25	29,291	22,415	0.765	14,467	0.494	7,948	0.645
2025/26	31,202	23,835	0.764	15,204	0.487	8,631	0.638
2026/27	32,849	25,133	0.765	15,900	0.484	9,233	0.633

Source: Applied Economics, 2016.

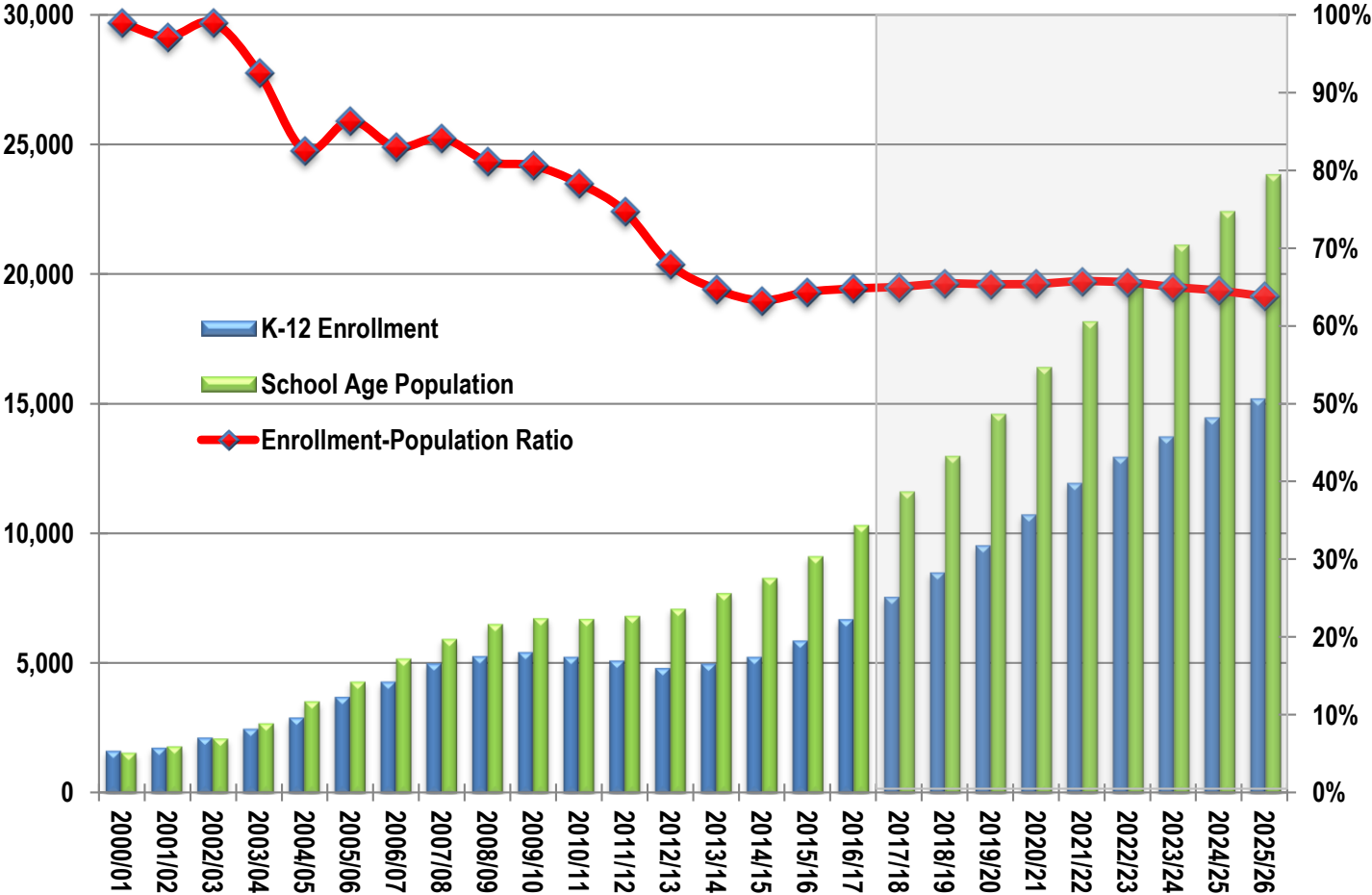
* Population age 5 through 17, corresponds with Kindergarten through 12th grade.

Bolding indicates historical data.

The current net difference between the school-age population of the District and enrollment (3,600 students), is mitigated by about 1,000 students from outside the District

The school-age population of the District is expected to swell from about 10,000 people today, to 25,000 people by 2026

School-age Population and Enrollment



Sources: Queen Creek Unified School District; Applied Economics, 2016.

Non-District Schools

Charter Schools

School Name	Address	City	Zip	Grades	Total K-12
ALA Mesa	4507 S Mountain Rd	Mesa	85212	KG-6th	412
ALA Queen Creek	23908 S Hawes Rd	Queen Creek	85142	7th-12th	1,331
ALA Queen Creek Elementary	19843 E Chandler Heights Rd	Queen Creek	85142	KG-6th	746
BASIS Mesa	5010 S Eastmark Parkway	Mesa	85212	3rd-12th	627
Benjamin Franklin Charter School - Crismon	21151 S Crismon Rd	Queen Creek	85142	KG-6th	808
Cambridge Academy East	20365 E Ocotillo Rd	Queen Creek	85242	KG-8th	230
Heritage Academy Gateway	19705 E Germann Rd	Queen Creek	85242	7th-12th	355
Pathfinder Academy at Eastmark	4816 S Eastmark Parkway	Mesa	85212	KG-8th	301
Total					4,810

Source: Arizona Department of Education; Applied Economics 2016.

Private Schools

School Name	Address	City	Zip	Grades	Total K-12
Calvary Christian School	19248 E San Tan Blvd	Queen Creek	85142	PS-2nd	17
Canyon State Academy	20061 E Rittenhouse Rd	Queen Creek	85142	5th-12th	328
Our Lady Of Guadalupe Academy	20615 E Ocotillo Rd	Queen Creek	85142	PS-3rd	19
Total					364

Source: Private School Universe Survey (PSS) 2015; Applied Economics 2016.

Data from 2013/14 school year.

Nearly 5,200 students were enrolled in non-District schools operating within the District in 2015/16, up from about 1,500 students five years ago

This more than accounts for differences between the District's school-age population and enrollment even with accounting for the movement of students between districts

Enrollment Projections

Fall	PS	Enrollment by Level				PS-12 Total		
		K-5	6-8	K-8	9-12	Enrollment	Change	% Growth
2010/11	167	2,428	1,139	3,567	1,694	5,428	-134	-2.4%
2011/12	187	2,311	1,155	3,466	1,645	5,298	-130	-2.4%
2012/13	185	2,099	1,081	3,180	1,650	5,015	-283	-5.3%
2013/14	197	2,103	1,116	3,219	1,770	5,186	171	3.4%
2014/15	233	2,265	1,170	3,435	1,815	5,483	297	5.7%
2015/16	282	2,662	1,275	3,937	1,942	6,161	678	12.4%
2016/17	312	3,163	1,397	4,560	2,139	7,011	850	13.8%
2017/18	352	3,691	1,608	5,299	2,261	7,912	901	12.9%
2018/19	396	4,280	1,872	6,152	2,355	8,903	991	12.5%
2019/20	445	4,942	2,003	6,945	2,610	10,000	1,097	12.3%
2020/21	500	5,708	2,179	7,887	2,853	11,240	1,240	12.4%
2021/22	556	6,513	2,247	8,760	3,190	12,506	1,266	11.3%
2022/23	603	7,051	2,535	9,586	3,366	13,555	1,049	8.4%
2023/24	639	7,444	2,829	10,273	3,461	14,373	818	6.0%
2024/25	673	7,752	3,197	10,949	3,518	15,140	767	5.3%
2025/26	707	8,020	3,443	11,463	3,741	15,911	771	5.1%
2026/27	739	8,165	3,656	11,821	4,079	16,639	728	4.6%

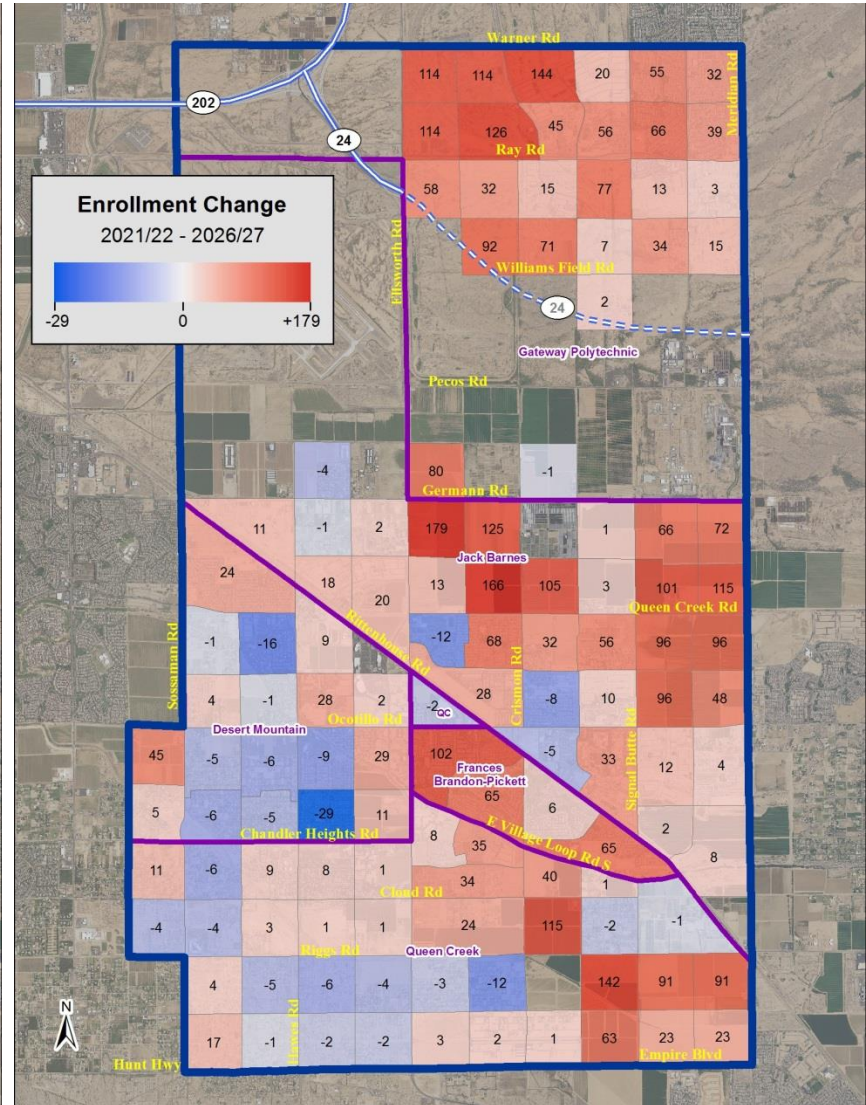
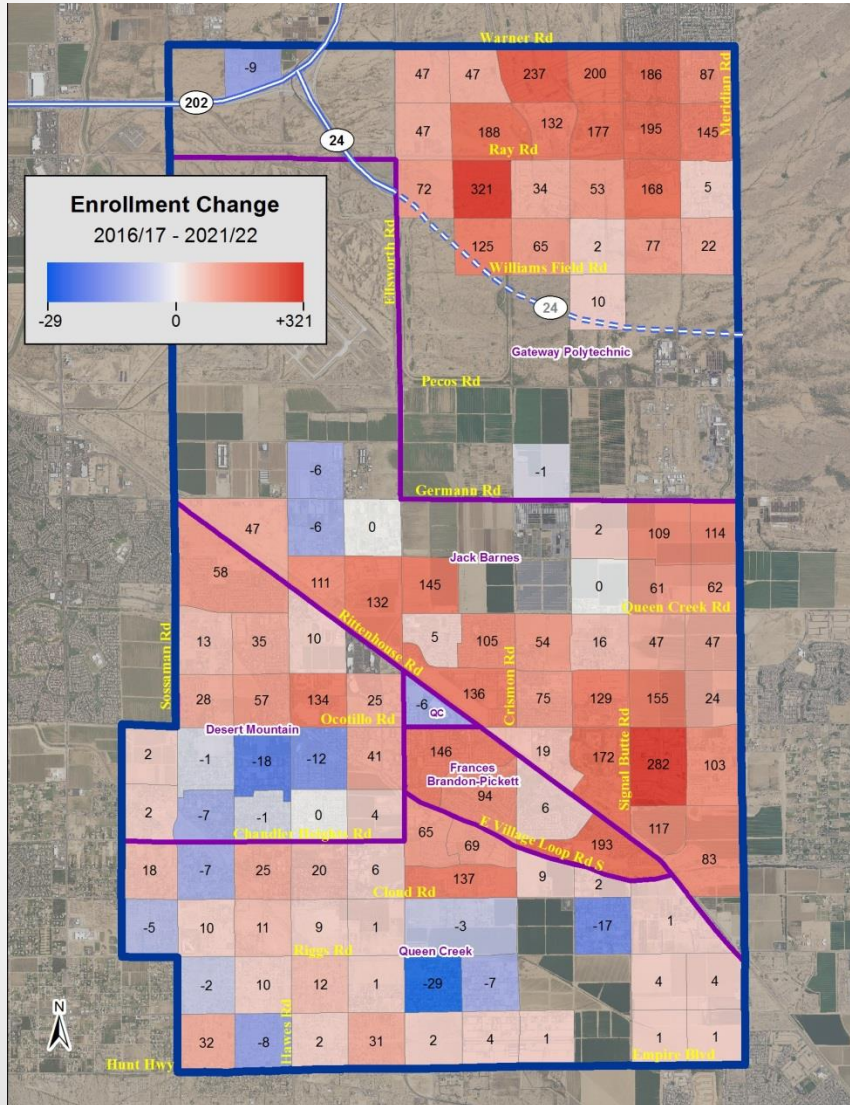
Source: Applied Economics, 2016.

Bolding indicates actuals.

Enrollment is likely to increase by over 10 percent per year over the next five years then decelerate as the supply of land for development wains

Potential to add over 9,500 students during the next 10 years

Sub-District Enrollment Change



Open Enrollment (Pre-School – 12th Grade)

School	Attendance Area						Total Attend	Total Reside	Net Difference	
	1	2	3	4	5	Outside				
Desert Mountain Elementary	1	463	18		11	68	102	662	564	98
Frances Brandon-Pickett Elementary	2	15	517	1	16	13	92	654	637	17
Gateway Polytechnic Academy	3	9	8	701	6		84	808	710	98
Jack Barnes Elementary School	4	7	20	5	536	7	51	626	627	-1
Queen Creek Elementary School	5	70	74	3	58	504	144	853	592	261
Total Reside		564	637	710	627	592	473	3,603	3,130	473
Reside/Attend Same (In-District)		82.1%	81.2%	99.4%	85.5%	85.1%		86.9%		
Newell Barney Middle School	1	496	36	3			82	617	515	102
Queen Creek Middle School	2	19	529	47			57	652	565	87
Gateway Polytechnic Academy *	3							0	50	-50
Total Reside		515	565	50			139	1,269	1,130	139
Queen Creek High School **	1	384	414	140	364	359	472	2,133	1,667	466
Other	2	2	3	1	0	0	0	6	0	6
Total Reside		386	417	141	364	359	472	2,139	1,667	472
District Total		1,465	1,619	901	991	951	1,084	7,011	5,927	1,084

Source: Queen Creek School District; Applied Economics, 2016.

* Enrollment included with the elementary schools.

** Attendance areas breakdown based on elementary attendance areas.

The movement of students between campuses is less than most suburban Districts, partially due to the dispersed nature of development, but is still a significant factor in projecting enrollment for schools

Enrollment/Space Projections

	Operational Capacity	90 Percent	School Attendance (PS-12)											
			2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
Elementary (PS-5)														
Desert Mountain	700	630	618	662	699	732	769	839	900	935	940	949	952	945
Frances Brandon Pickett	700	630	606	654	714	761	808	892	972	1,011	1,034	1,052	1,058	1,051
Jack Barnes	700	630	492	626	780	984	1,254	1,550	1,857	2,075	2,249	2,404	2,518	2,576
Queen Creek	1,013	912	796	853	878	918	961	1,029	1,107	1,159	1,193	1,243	1,339	1,462
Total	3,113	2,802	2,512	2,795	3,070	3,395	3,792	4,311	4,836	5,179	5,417	5,648	5,867	6,035
GPA PS-8*	767	690	470	808	1,125	1,507	1,870	2,255	2,634	2,986	3,253	3,472	3,593	3,628
Middle School **														
Newell Barney Middle School	1,000	900	834	617	751	802	785	753	736	775	841	916	998	1,085
Queen Creek Middle School	950	855	403	652	705	844	943	1,068	1,110	1,248	1,401	1,586	1,712	1,812
Total	1,950	1,755	1,237	1,269	1,455	1,646	1,728	1,821	1,846	2,024	2,241	2,502	2,710	2,898
High School														
Queen Creek HS	2,470	2,223	1,932	2,133	2,254	2,348	2,602	2,845	3,181	3,357	3,451	3,508	3,730	4,068
Other	na		10	6	7	7	8	8	9	9	10	10	11	11
Total	2,470	2,223	1,942	2,139	2,261	2,355	2,610	2,853	3,190	3,366	3,461	3,518	3,741	4,079
District Total	8,300	7,470	6,161	7,011	7,912	8,903	10,000	11,240	12,506	13,555	14,373	15,140	15,911	16,639

Source: Applied Economics, 2016.

90% of Operational Capacity

100%+ of Operational Capacity

* Includes PS-6 in 2015/16, PS-7 in 2016/17 and PS-8 thereafter.

** Reflects change of both schools with new attendance areas beginning in the 2016/17 school year.

Increases are projected across all of the attendance areas over the next 10 years

School projections are based on projections by attendance area and the current difference between attendance area and school enrollment

Conclusions

Recent enrollment increases have accelerated and include nearly an equal number of students at all grade levels

Recent re-zoning activity by the Town of Queen Creek add a significant number of units to the development potential and pace of growth during the latter part of the projection period

Housing construction activity will accelerate somewhat more in the near- term before leveling off – at more than 2,000 new housing units per year

Total enrollment in the District is set to more than double over the next ten years but the rate could still be impacted by regional and national economic conditions including interest rates

District schools will likely exceed 100 percent of their current operational capacity in the 2018/19 school year