



DJUSD

DAVIS JOINT UNIFIED
SCHOOL DISTRICT

Fall 2016/17 Report

Student Population Forecast

Fall 2017/18 – 2026/27

Presented to the
D.J.U.S.D. Board of Education
February 16th, 2017

DDP and the DJUSD

DDP's Philosophy

- Planning based upon Residence of Students
 - Actual school enrollments do not necessary reflect area demographics
 - School enrollment is influenced by many non-spatial variables

DDP and the DJUSD

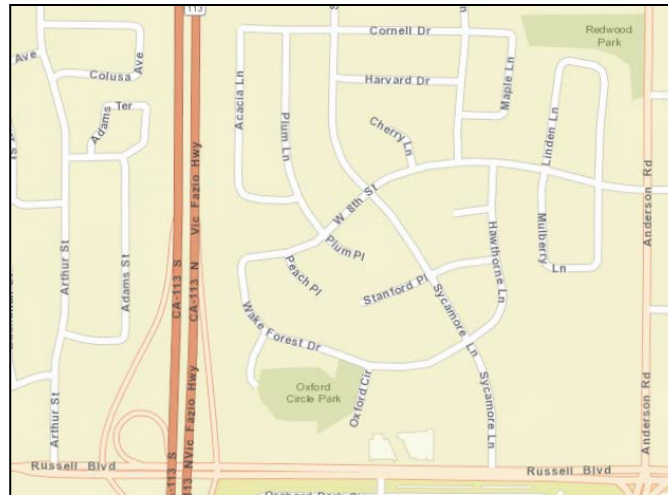
- DDP has been assisting the DJUSD since the 2006/07 school year
- Forecasts since 2006/07 school year are within 1.5% accuracy of the 2016/17 actual enrollment

2015/16 Board Presentation Comments

- What to watch for?
 - Migration patterns – 61% positive
 - In-district population – slight decline
 - Future kindergarten enrollment – 115% of births from 5 years prior

Data Collection

Data collection starts with obtaining a street database



Identify

Identify from: <Top-most layer>

Streets

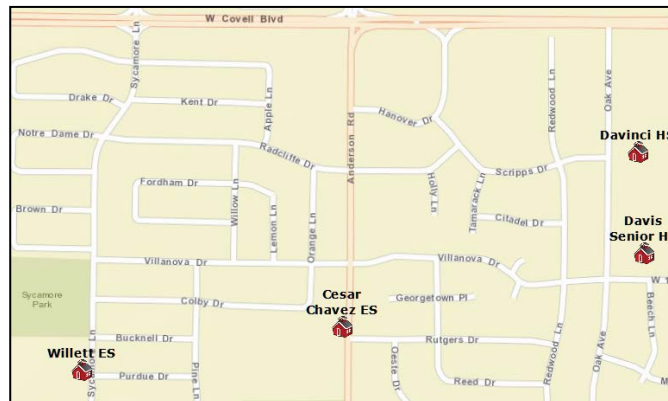
SYCAMORE LN

Location: 6,628,882.377 1,963,750.323 Ft

Field	Value
PreDir	
PreType	
StreetName	SYCAMORE
SurfType	Lane
SurfDir	
LF_EXHAUST	1201
LT_EXHAUST	1299
RF_EXHAUST	1200
RT_EXHAUST	1298
FULLSTREET	SYCAMORE LN
CITYLEFT	DAVIS
CITYRIGHT	DAVIS
ZIPLEFT	95616
ZIPRIGHT	95616
STRT_CODE	Surface Streets

Identified 1 feature

School point locations are input



Identify

Identify from: <Top-most layer>

Schools

Davis Senior HS

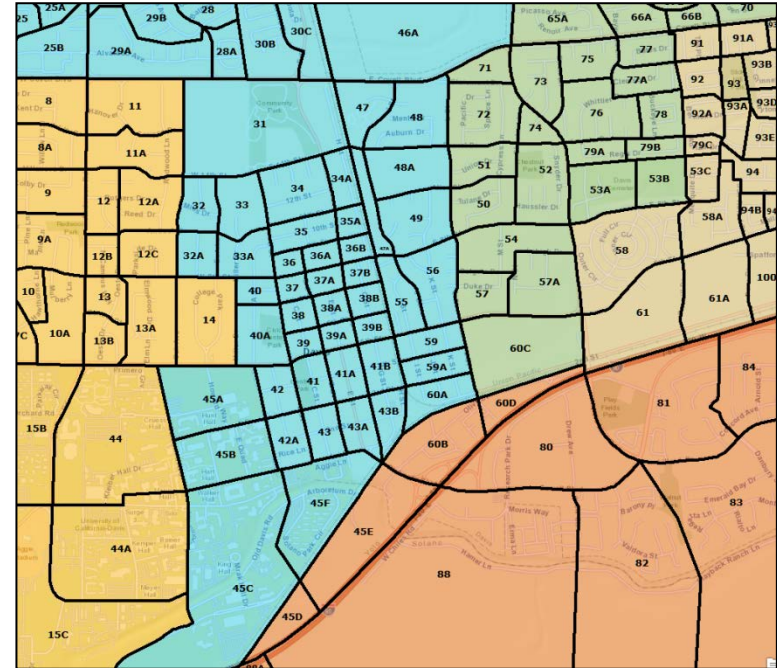
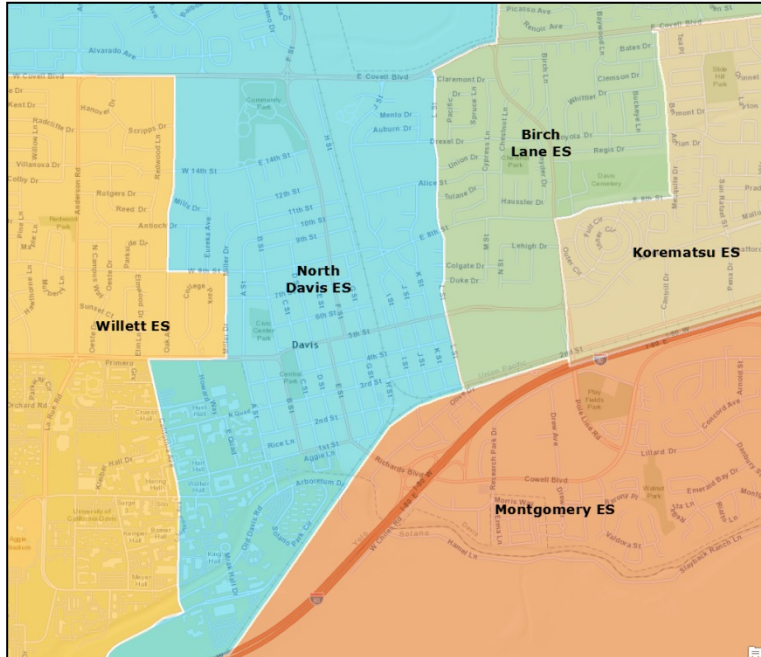
Location: 6,632,773.626 1,964,529.781 Ft

Field	Value
NAME	Davis Senior HS
ADDRESS	315 W 14TH ST
SCHL_CODE	223
GRD_RANGE	10-12
WEBSITE	http://dhs.djUSD.k12.ca.us/
CITY	DAVIS
ZIP	95616
PHONE	530-757-5400

Identified 1 feature

Data Collection

Elementary,
middle and high
school
attendance areas
are created



District is further
divided into
Study Areas

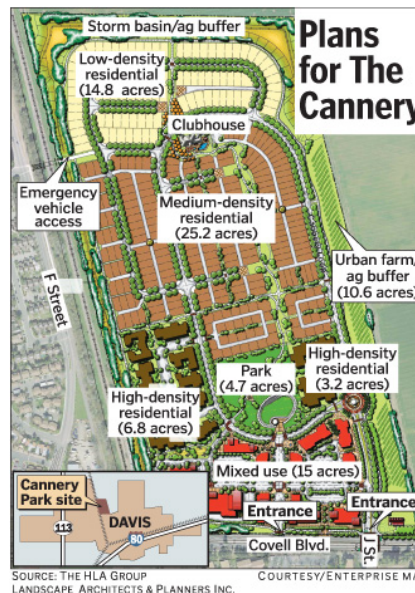
Data Collection

Each student is geocoded to their given address



Identify	
Identify from:	StudentsAll
StudentsAll	
Location:	6,635,509.705 1,964,307.721 Ft
Field	Value
StudentID	78453
SchoolNumber	212
gradec	KN
resaddr1	1225 H St #19
rescity	Davis
resstate	CA
reszip	95616
Ethnicity	AsianChinese
ConcurSchStat	Active
IsHomeSchool	X
EnglishProf	Beginning
InstrSetting	Regular
ELPlacement	ELD and SDAIE
ELInstr	ELStructured English Immersion
SerLevel	
primDisab	
FreeReduced	X
Title3Imm	X
GATE	
Title1	
Identified 2 features	

Planned future residential development is researched and input



Identify	
Identify from:	Tracts
Tracts	
Location:	6,635,896.650 1,966,450.968 Ft
Field	Value
STDYAREA	46A
TRACTNUM	0
TYPE	Apartment
UNITS	44
PROJECT	Bungalow Alleys
DEVELOPER	New American Homes
PH1_	44
PH1_COMP	10/1/2016
PH2_	0
PH2_COMP	10/1/2017
PH3_	0
PH3_COMP	10/1/2018
PH4_	0
PH4_COMP	10/1/2019
PH5_	0
PH5_COMP	10/1/2020
COMMENTS	Starting to move forward
STATUS	Planning
Identified 1 feature	

Projection Calculations

Projections

- Calculated for each of the district 102 Study Areas
 - Ability to plan at a neighborhood level
- Based upon student data October 2016/17 and historical student data from 2013/14 – 2015/16
- Based upon actual student residence rather than current school of enrollment
- Graduate 12th grade; Move up other grades

Factors Influencing Future Student Population

- Current and Future Kindergarten Enrollment
 - Fluctuations in kindergarten enrollment can have a long lasting effect on K-6 projections. Future kindergarten enrollment is calculated by using a combination of births in the area and current kindergarten enrollment.
- Families Moving In or Out of the District
 - Student population migration patterns have the largest influence on enrollment projections because they are applied to 1st thru 12th grade for each year of the projection. Migration patterns are determined by examining historic student data and the annual change in the number of students living in each attendance area
- New Housing
 - As new housing is occupied it can produce an increase in current and future student population and may have an impact on local facilities

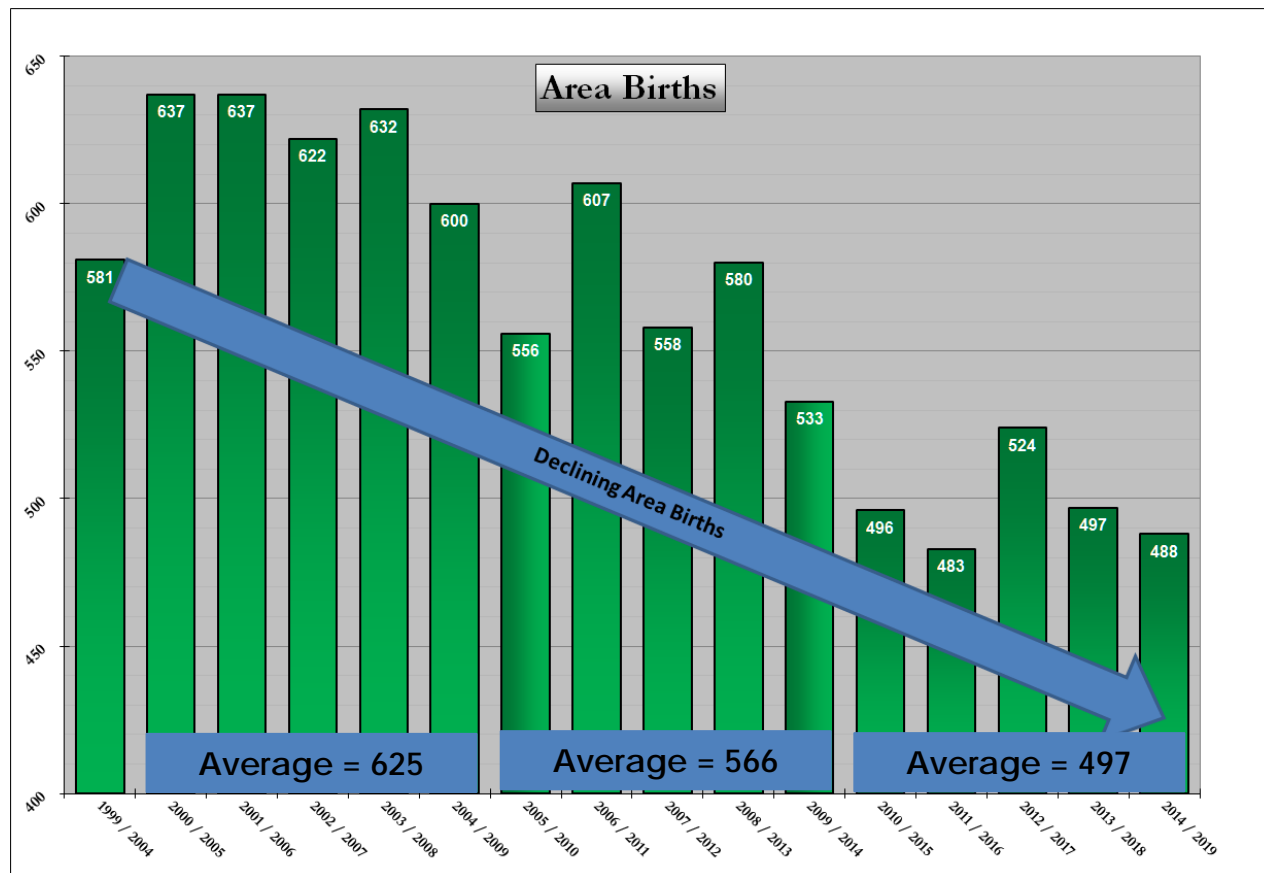
Incoming Kindergarten

Comparison of Births vs. Kindergarten			
Birth Year/K Year	Birth Total	K Class**	% of Births
1995 / 2000	555	637	114.8%
1996 / 2001	555	587	105.8%
1997 / 2002	548	657	119.9%
1998 / 2003	591	573	97.0%
1999 / 2004	581	564	97.1%
2000 / 2005	637	582	91.4%
2001 / 2006	637	578	90.7%
2002 / 2007	622	555	89.2%
2003 / 2008	632	599	94.8%
2004 / 2009	600	556	92.7%
2005 / 2010	556	566	101.8%
2006 / 2011	607	560	92.3%
2007 / 2012	558	511	91.6%
2008 / 2013*	580	528	91.0%
2009 / 2014*	533	576	108.1%
2010 / 2015*	496	572	115.3%
2011 / 2016*	483	522	108.1%
Total	9,771	9,723	99.5%

*Does not include TK Students

**Includes K students residing outside of the district boundaries

2016/17 has the smallest K class in the last 4 years and the 2nd smallest in the last 16 years



Comparing 2000-2004, 2005-2009 and 2010-2014

Families Moving In or Out of the District (mobility)

- Calculated for each grade at a study area level
- Measures the migration of students in and out of the district. Including move ins, move outs, new students from infill housing, drop outs, private school movement, etc.

Mobility is used to estimate future student migration patterns

Davis Joint Union School District												
Mobility by Elementary Attendance Area 2013/14 - 2016/17												
	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6	G6 → G7	G7 → G8	G8 → G9	G9 → G10	G10 → G11	G11 → G12
Birch Lane E.S.	101%	101%	106%	100%	101%	102%	112%	95%	104%	101%	97%	96%
Korematsu E.S.	105%	103%	99%	106%	100%	101%	97%	98%	92%	103%	93%	98%
Montgomery E.S.	104%	104%	104%	98%	103%	98%	103%	98%	99%	96%	90%	97%
North Davis E.S.	92%	100%	99%	98%	105%	99%	105%	105%	98%	106%	107%	105%
Patwin E.S.	113%	105%	100%	111%	97%	103%	108%	103%	99%	95%	98%	100%
Pioneer E.S.	108%	104%	107%	102%	102%	102%	98%	102%	101%	98%	98%	96%
Willett E.S.	109%	103%	102%	100%	101%	101%	105%	97%	115%	98%	100%	94%

Areas with a mobility above 1.000 are experiencing a positive migration pattern

Attendance Area Birch Lane ES				Projection Date 10/7/2015			
ACTUAL		PROJECTED RESIDENT STUDENTS					
	2016	2017	2018	2019	2020	2021	2022
K	82	90.6	86.0	84.9	86.2	85.8	85.8
1	82	83.2	91.5	87.0	85.9	86.2	85.8
2	101	84.0	85.0	93.4	88.8	86.7	87.1
3	91	108.3	90.0	91.1	100.0	94.1	91.9
4	87	92.2	109.3	91.0	92.0	100.0	94.1
5	97	89.1	94.1	111.3	92.9	92.9	101.0
6	87	100.1	91.8	96.9	114.5	94.7	94.8
		101%	101%	106%	100%	101%	102%

Birch Lane E.S.	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6
	101%	101%	106%	100%	101%	102%

Comparing Mobility

2014/15
Mobility

SchlYr 2011/12 - 2014/15 Mobility												
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Birch Lane E.S.	96%	103%	102%	98%	102%	101%	103%	98%	101%	100%	93%	92%
Korematsu E.S.	113%	102%	105%	99%	102%	102%	104%	97%	98%	100%	96%	96%
Montgomery E.S.	106%	108%	100%	97%	108%	101%	101%	104%	99%	100%	97%	103%
North Davis E.S.	98%	99%	96%	103%	104%	97%	103%	95%	104%	103%	98%	102%
Patwin E.S.	107%	99%	101%	107%	97%	101%	111%	96%	100%	99%	96%	97%
Pioneer E.S.	115%	95%	111%	97%	101%	97%	98%	98%	98%	99%	98%	94%
Willett E.S.	111%	98%	106%	97%	102%	98%	99%	99%	103%	98%	98%	96%

49%
Positive

2015/16
Mobility

Davis Joint Union School District Mobility by Elementary Attendance Area 2012/13 - 2015/16												
	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6	G6 → G7	G7 → G8	G8 → G9	G9 → G10	G10 → G11	G11 → G12
Birch Lane E.S.	97%	100%	104%	96%	98%	100%	107%	95%	104%	99%	95%	93%
Korematsu E.S.	105%	101%	97%	105%	100%	102%	100%	97%	93%	100%	93%	98%
Montgomery E.S.	110%	111%	105%	102%	112%	103%	103%	106%	103%	100%	96%	101%
North Davis E.S.	94%	103%	98%	102%	101%	98%	101%	99%	101%	101%	98%	101%
Patwin E.S.	111%	106%	102%	109%	95%	103%	109%	100%	101%	98%	96%	99%
Pioneer E.S.	112%	98%	110%	97%	103%	100%	98%	102%	98%	100%	96%	93%
Willett E.S.	117%	103%	103%	102%	100%	99%	106%	98%	109%	99%	96%	92%

61%
Positive

2016/17
Mobility

Davis Joint Union School District Mobility by Elementary Attendance Area 2013/14 - 2016/17												
	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6	G6 → G7	G7 → G8	G8 → G9	G9 → G10	G10 → G11	G11 → G12
Birch Lane E.S.	101%	101%	106%	100%	101%	102%	112%	95%	104%	101%	97%	96%
Korematsu E.S.	105%	103%	99%	106%	100%	101%	97%	98%	92%	103%	93%	98%
Montgomery E.S.	104%	104%	104%	98%	103%	98%	103%	98%	99%	96%	90%	97%
North Davis E.S.	92%	100%	99%	98%	105%	99%	105%	105%	98%	106%	107%	105%
Patwin E.S.	113%	105%	100%	111%	97%	103%	108%	103%	99%	95%	98%	100%
Pioneer E.S.	108%	104%	107%	102%	102%	102%	98%	102%	101%	98%	98%	96%
Willett E.S.	109%	103%	102%	100%	101%	101%	105%	97%	115%	98%	100%	94%

62%
Positive

Residential Development

Study Area	Project Name	Type	Total Units	Developer	Area
30	Grande Village	SFD	41	Don Fouts	
42A	Mission Residences	SFA	14	City	
46A	Bartlett at Cannery	APT	62	CFY Development	Cannery
46A	Beech 1/2 The Cannery	SFD	42	Standard Pacific	Cannery
46A	Beech 2/2 The Cannery	SFD	30	Standard Pacific	Cannery
46A	Gala The Cannery	MFA	48	New American Homes	Cannery
46A	Gala The Cannery	MFA	48	New American Homes	Cannery
46A	Heirloom 1/2 The Cannery	MFA	42	New Home Company	Cannery
46A	Heirloom 2/2 The Cannery	MFA	30	New Home Company	Cannery
46A	Persimmon 1/2	SFD	22	Shea Homes	Cannery
46A	Persimmon 2/2	SFD	22	Shea Homes	Cannery
46A	Sage 1/2 The Cannery	SFD	69	New Home Company	Cannery
46A	Sage 2/2 The Cannery	SFD	4	New Home Company	Cannery
46A	Tilton 1/2 The Cannery	SFD	38	Shea Homes	Cannery
46A	Tilton 2/2 The Cannery	SFD	38	Shea Homes	Cannery
61A	Del Rio Live Work	SFA	16	City	
66B	Paso Fino Subdivision	SFD	6	City	
85	Villages At Willow Creek	SFD	35	Ray Ferrarini	
104A	Berry Bridge Cottages	SFD	8	City	
109	Villas at El Macero	SFD	16	Don Fouts	County

Student Yield Factors - District Wide*			
Type	K-6 Yield	7-8 Yield	9-12 Yield
SFD	0.265	0.082	0.102
MFA	0.104	0.061	0.017
APT	0.147	0.047	0.037

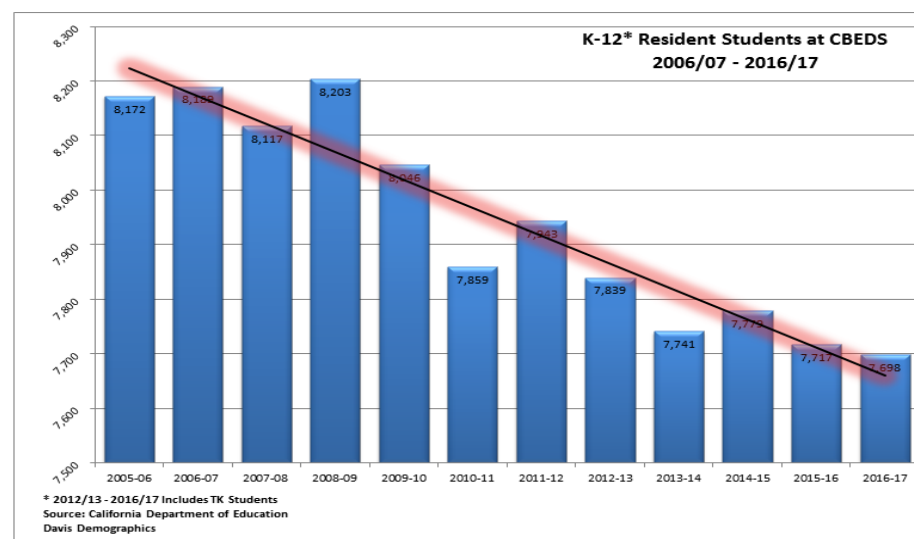
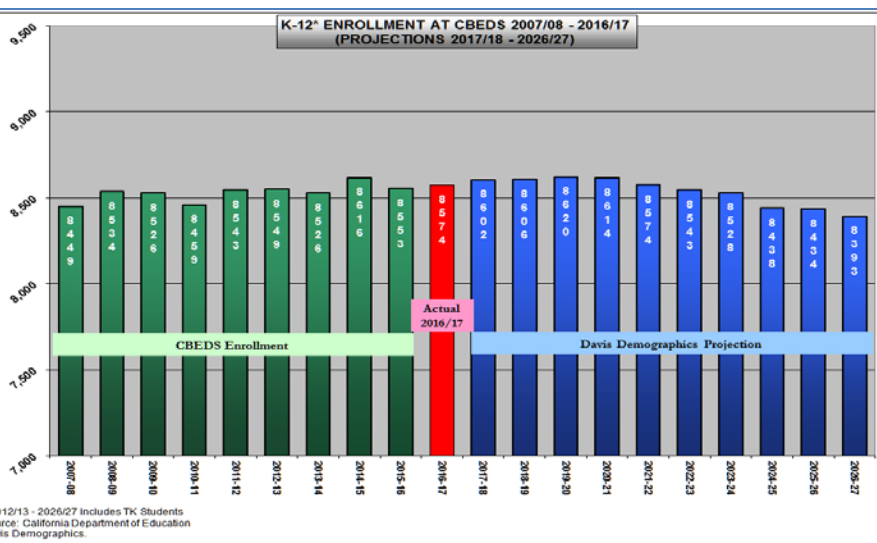
Development info from City of Davis, Local Developers and D.J.U.S.D. staff

*Student Yields Factors based upon Verona development

Only Approved and Pending developments are included

District Wide Projections

	Base File	Projected									
	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
TK-6	4,276	4,325.9	4,277.5	4,305.1	4,284.4	4,212.8	4,177.5	4,171.6	4,140.8	4,119.5	4,110.8
7-9	2,162	2,133.4	2,161.7	2,136.9	2,176.1	2,168.9	2,204.4	2,169.6	2,117.0	2,099.1	2,101.6
10-12	2,136	2,143.0	2,166.9	2,178.1	2,153.1	2,192.4	2,161.1	2,187.2	2,180.4	2,215.0	2,180.3
TK-12	8,574	8,602.3	8,606.1	8,620.1	8,613.6	8,574.1	8,543.0	8,528.4	8,438.2	8,433.6	8,392.7
	21	28.3	3.8	14.0	-6.6	-39.5	-31.1	-14.5	-90.2	-4.6	-40.9
	0.2%	0.6%	0.0%	0.2%	-0.1%	-0.5%	-0.4%	-0.2%	-1.1%	-0.1%	-0.5%



A Few Last Comments...

Families Relocating to Adjacent Districts

The migration of families moving to adjacent cities while continuing to be enrolled in a DJUSD school appears to be slowing. There was a net increase of only 39 IDT's from 2015/16 to 2016/17.

Births in the Area

Average births per year dropped from 625 (2000 – 2004) to 497 (2010-2014).

New Housing

400+ new residential units are planned to be built within the next 10 years.

Consistency of Long Term Facilities Planning

DDP's student population projections are intended to assist the district's facility department in identifying changes in student population and give the district adequate time to prepare for these changes.

The Past Few Years

Positive net migration, increased IDT's and new housing have helped mask declining resident student population

What does the future hold

The 2017/18 to 2019/20 school years are forecasted to experience a mild increase in enrollment, about 50 TK-12 students, attributed to positive net migration and new housing. The following years will bring stability then slight declines as new housing is built out and smaller K classes continue through the grades.

What to watch for?

- Migration patterns – 62% positive (2nd straight year of increase)
- In-district population – 7 of last 11 years have shown resident student decline
- Future kindergarten enrollment – Declining area births = smaller K enrollment?

Questions?

