



DJUSD

DAVIS JOINT UNIFIED
SCHOOL DISTRICT

Fall 2015/2016 Report

Student Population Projections

Fall 2016/2017 – 2025/2026

Presented to the
D.J.U.S.D. Board of Education
March 3, 2016

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

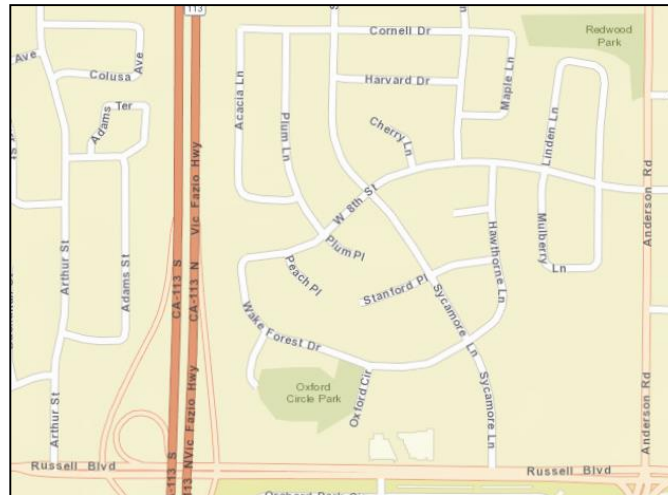
- DDP has been assisting the DJUSD since the 2006/07 school year
- Forecasts calculated in the 2006/07 school year are within 3% accuracy of the 2015/16 actual enrollment

2014/15 Board Presentation Comments

- What to watch for?
 - Migration patterns
 - In-district population
 - **Future kindergarten enrollment**
 - Independent study students

Data Collection

Data collection starts with obtaining a street database



Identify

Identify from: <Top-most layer>

Streets

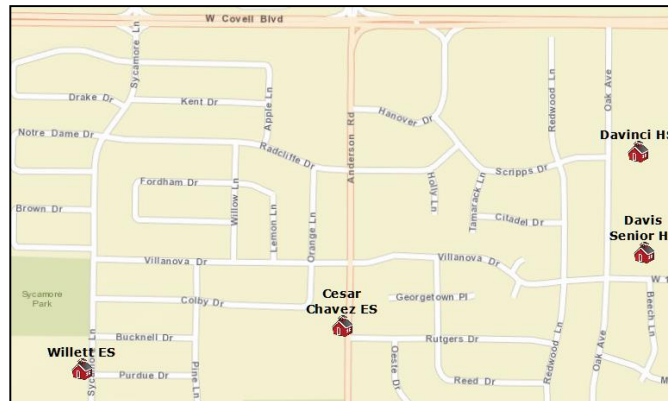
Sycamore Ln

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

Field	Value
PreDir	
PreType	
StreetName	SYCAMORE
SufType	Lane
SufDir	
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

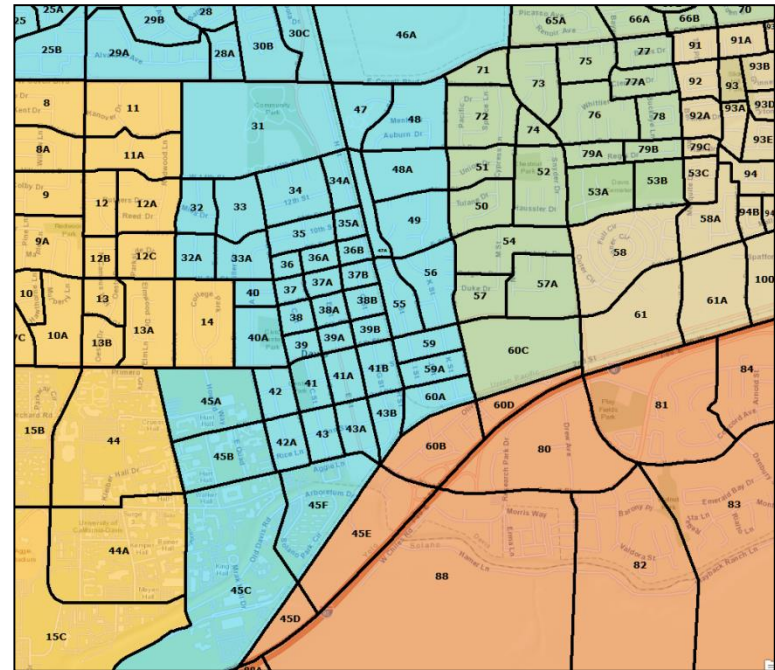
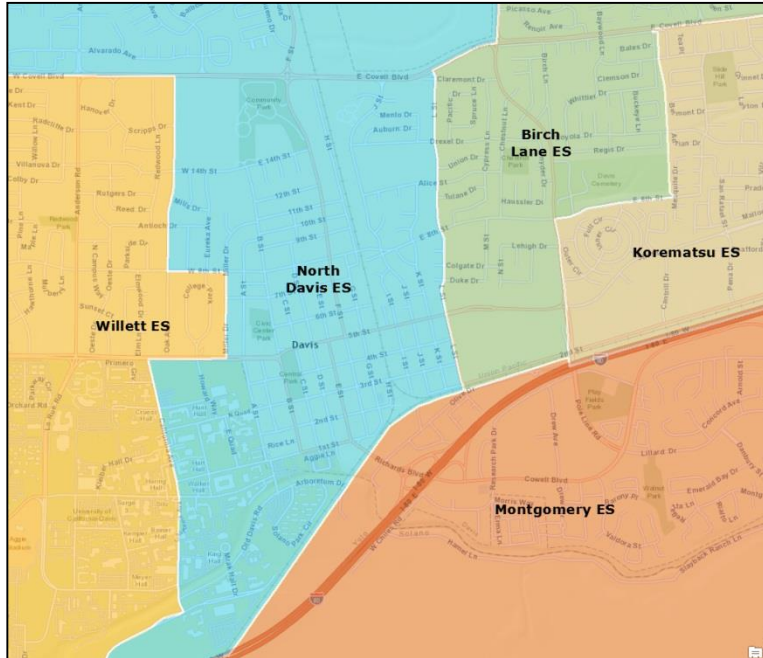
Location: 6,632,773.626 1,964,529.781 Ft

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

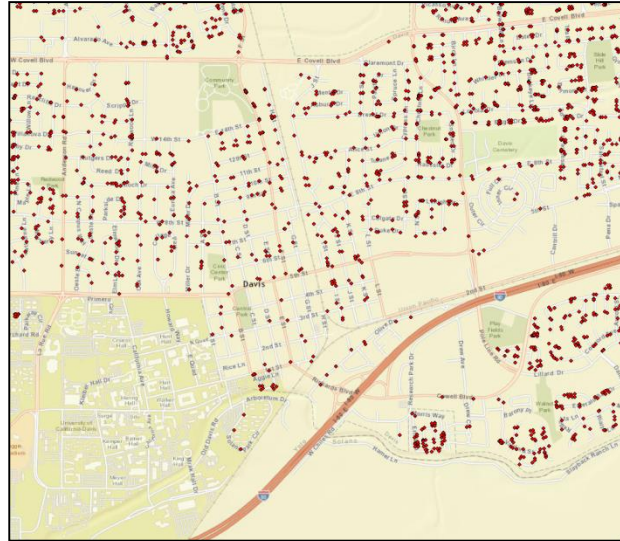
**Elementary,
middle and high
school
attendance areas
are created**



**District is further
divided into
Study Areas**

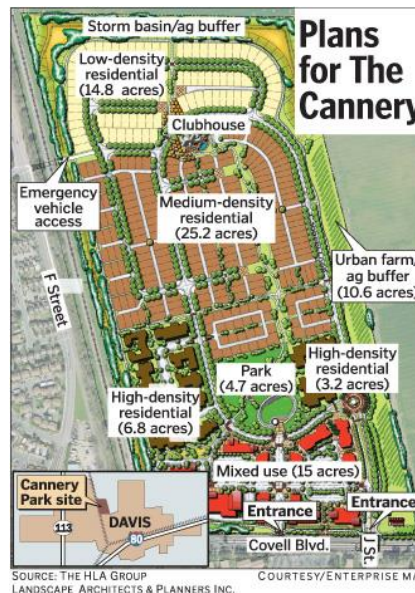
Data Collection

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
grade	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	

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

Projection Calculations

Projections

- Calculated for each of the district 102 Study Areas
 - Ability to plan at a neighborhood level
- Based upon student data October 2015/16 and historical student data from 2012/13 – 2014/15
- Based upon actual student residence rather than current school of enrollment
- Graduate 12th grade; Move up other grades

Factors Influencing Future Student Population

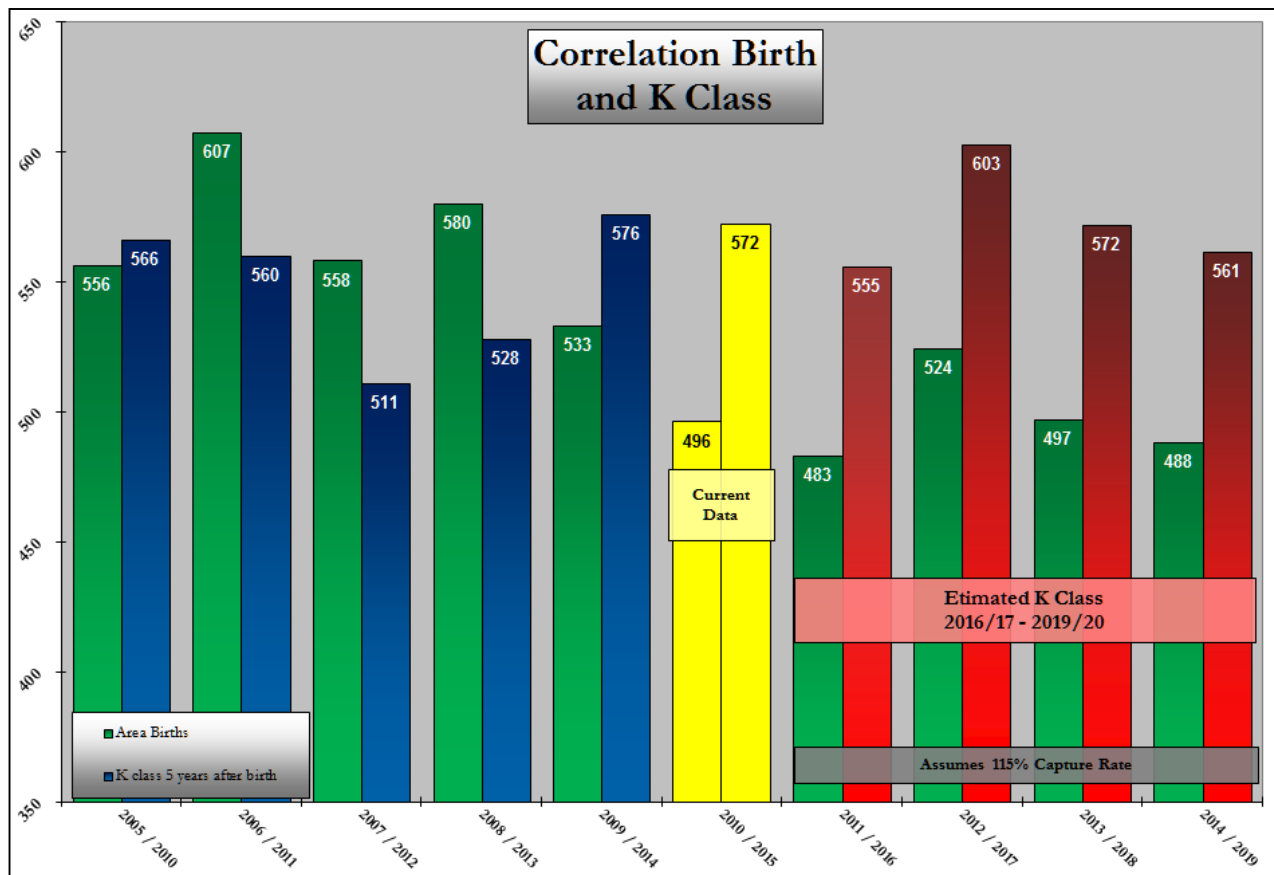
- Current and Future Kindergarten Enrollment
 - Fluctuations in kindergarten enrollment can have a long lasting effect on K-6 projections. Future kindergarten enrollment is calculated by using a combination of births in the area and current kindergarten enrollment.
- Families Moving In or Out of the 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

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%
Total	9,288	9,201	99.1%

*Does not include TK Students

**2015/16 has
the 2nd largest
K class in the
last 6 years**



Will the trend of large K enrollment continue?

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 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%

Attendance Area Birch Lane ES				Projection Date 10/7/2015				
ACTUAL			PROJECTED RESIDENT STUDENTS					
	2015	2016	2017	2018	2019	2020	2021	2022
K	79	76.9	83.4	79.2	77.7	79.6	79.9	80.2
1	99	76.6	74.6	80.9	76.8	76.0	77.7	78.0
2	85	99.0	76.6	74.6	80.9	77.4	76.5	78.3
3	83	88.4	103.0	79.7	77.6	84.7	81.0	80.2
4	89	79.7	84.9	98.8	76.5	75.1	81.9	78.3
5	87	87.2	78.1	83.2	96.9	75.5	74.1	80.8
6	79	87.0	87.2	78.1	83.2	97.4	76.1	74.7
7	124	84.5	93.1	93.3	83.6	89.6	104.9	82.1
		97%	100%	104%	96%	98%	100%	107%

Birch Lane E.S.	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6	G6 → G7
	97%	100%	104%	96%	98%	100%	107%

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

Comparing Mobility

**2014/15
Mobility**

SchYr 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**

Residential Development

Study Area	PROJECT NAME	TYPE	TOTAL UNITS	DEVELOPER	AREA
30	Grande Village	SFD	41	Don Fouts	
46A	Persimmon	SFD	44	Shea Homes	Cannery Park
46A	Heirloom The Cannery	MFA	72	New Home Company	Cannery Park
46A	Tilton The Cannery	SFD	76	Shea Homes	Cannery Park
46A	Beech The Cannery	SFD	72	Standard Pacific	Cannery Park
46A	Gala The Cannery	MFA	96	New American Homes	Cannery Park
46A	Sage The Cannery	SFD	73	New Home Company	Cannery Park
53B	Chiles Ranch	SFD	98	Don Fouts	
59A	Trackside Center	APT	48	Trackside LLC	
85	Villages At Willow Creek	MFA	35	Ray Ferrarini	

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

Nishi and West Village Excluded from study

Residential Development

607 units spread over 10 years

Residential Development Summary - Aggressive																															
Total SFD = 395 Total MFA = 188 Total APT = 24																															
Study Area	10/2015 - 10/2016			10/2016 - 10/2017			10/2017 - 10/2018			10/2018 - 10/2019			10/2019 - 10/2020			10/2020 - 10/2021			10/2021 - 10/2022			10/2022 - 10/2023			10/2023 - 10/2024			10/2024 - 10/2025			
	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	
30	0	0	0	0	0	0	10	0	0	10	0	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46A	25	7	0	25	8	0	45	0	0	54	10	0	67	72	0	29	10	0	12	44	0	8	2	0	0	0	0	0	0	0	0
53B	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15	0	0	
59A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
85	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	10	0	0	5	0	0	0	0	0	0	0	0
Total	25	7	0	25	8	0	55	0	0	64	10	0	92	82	0	54	20	0	27	54	0	23	7	0	15	0	0	15	0	24	
	Total 15 / 16		32	Total 16 / 17		33	Total 17 / 18		55	Total 18 / 19		74	Total 19 / 20		174	Total 20 / 21		74	Total 21 / 22		81	Total 22 / 23		30	Total 23 / 24		15	Total 24 / 25		39	

441 units spread over 10 years

Residential Development Summary - Conservative																															
Total SFD = 332 Total MFA = 109																															
Study Area	10/2015 - 10/2016			10/2016 - 10/2017			10/2017 - 10/2018			10/2018 - 10/2019			10/2019 - 10/2020			10/2020 - 10/2021			10/2021 - 10/2022			10/2022 - 10/2023			10/2023 - 10/2024			10/2024 - 10/2025			
	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	SFD	MFA	APT	
46A	20	7	0	20	8	0	30	0	0	43	0	0	39	0	0	15	0	0	15	0	0	19	0	0	15	68	0	16	26	0	
53B	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15	0	0	
Total	20	7	0	20	8	0	30	0	0	43	0	0	64	0	0	30	0	0	30	0	0	34	0	0	30	68	0	31	26	0	
	Total 15 / 16		27	Total 16 / 17		28	Total 17 / 18		30	Total 18 / 19		43	Total 19 / 20		64	Total 20 / 21		30	Total 21 / 22		30	Total 22 / 23		34	Total 23 / 24		98	Total 24 / 25		57	

District Wide Projections

Baseline

Base File	Projected									
2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
4,305	4,323.5	4,416.4	4,402.9	4,453.7	4,496.0	4,488.0	4,488.2	4,504.4	4,469.4	4,468.2
2,128	2,114.7	2,071.3	2,075.8	2,056.6	2,080.0	2,084.0	2,145.3	2,171.2	2,198.7	2,199.5
2,120	2,091.6	2,070.7	2,113.2	2,098.2	2,051.2	2,065.0	2,046.9	2,064.3	2,074.9	2,136.8
8,553	8,529.8	8,558.5	8,591.8	8,608.5	8,627.2	8,637.0	8,680.4	8,739.9	8,743.0	8,804.5
-63	-23	29	33	17	19	10	43	59	3	62
-0.7%	-0.3%	0.3%	0.4%	0.2%	0.2%	0.1%	0.5%	0.7%	0.0%	0.7%

Aggressive

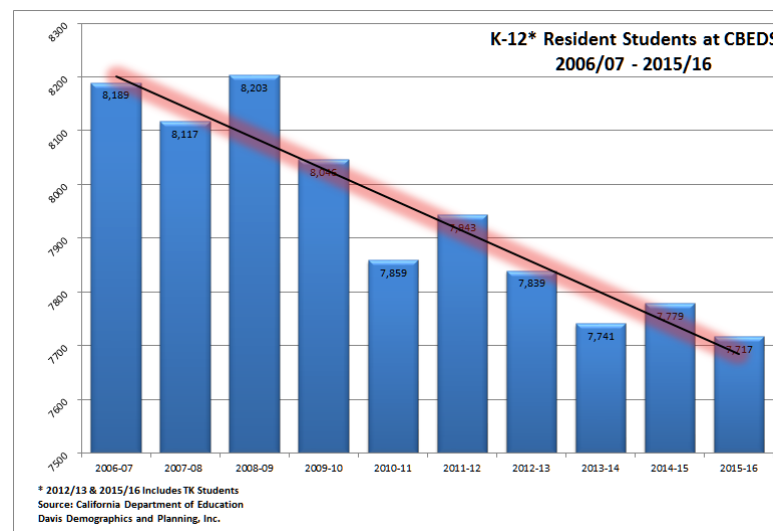
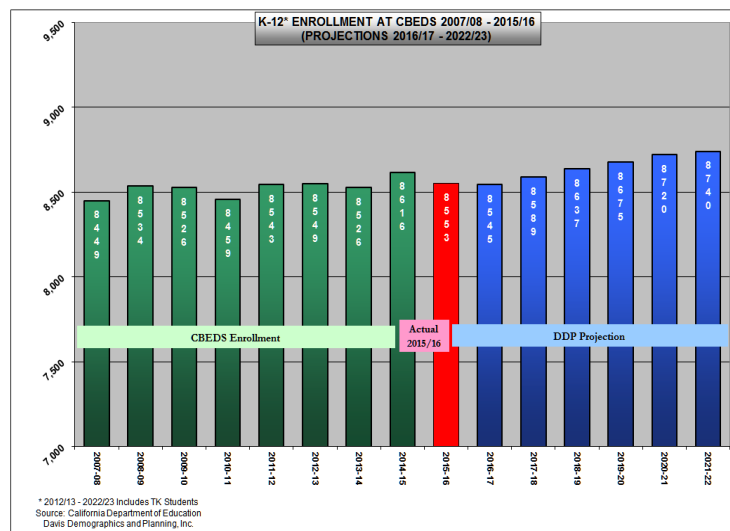
4,305	4,331.3	4,431.9	4,432.8	4,500.7	4,574.8	4,577.8	4,584.2	4,599.8	4,561.5	4,560.5
2,128	2,122.0	2,086.7	2,096.2	2,087.2	2,168.2	2,187.7	2,258.0	2,265.9	2,276.8	2,265.1
2,120	2,093.9	2,075.3	2,125.4	2,121.6	2,088.4	2,109.5	2,116.7	2,162.3	2,192.5	2,250.4
8,553	8,547.3	8,593.8	8,654.4	8,709.5	8,831.5	8,875.0	8,958.9	9,028.0	9,030.8	9,076.0
-63	-6	47	61	55	122	44	84	69	3	45
-0.7%	-0.1%	0.5%	0.7%	0.6%	1.4%	0.5%	0.9%	0.8%	0.0%	0.5%

Conservative

4,305	4,330.0	4,429.2	4,423.3	4,484.6	4,540.1	4,536.5	4,541.1	4,562.0	4,537.8	4,542.5
2,128	2,121.2	2,085.4	2,091.9	2,074.2	2,102.2	2,109.9	2,174.5	2,204.1	2,269.6	2,287.2
2,120	2,093.4	2,074.5	2,122.2	2,116.2	2,077.7	2,093.2	2,075.5	2,095.2	2,110.3	2,175.9
8,553	8,544.6	8,589.0	8,637.4	8,675.0	8,720.0	8,739.7	8,791.1	8,861.3	8,917.7	9,005.7
-63	-8	44	48	38	45	20	51	70	56	88
-0.7%	-0.1%	0.5%	0.6%	0.4%	0.5%	0.2%	0.6%	0.8%	0.6%	1.0%

District Wide Projections - Conservative

	Base File	Projected									
	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
TK-6	4,305	4,330.0	4,429.2	4,423.3	4,484.6	4,540.1	4,536.5	4,541.1	4,562.0	4,537.8	4,542.5
7-9	2,128	2,121.2	2,085.4	2,091.9	2,074.2	2,102.2	2,109.9	2,174.5	2,204.1	2,269.6	2,287.2
10-12	2,120	2,093.4	2,074.5	2,122.2	2,116.2	2,077.7	2,093.2	2,075.5	2,095.2	2,110.3	2,175.9
TK-12	8,553	8,544.6	8,589.0	8,637.4	8,675.0	8,720.0	8,739.7	8,791.1	8,861.3	8,917.7	9,005.7
	-63	-8	44	48	38	45	20	51	70	56	88
	-0.7%	-0.1%	0.5%	0.6%	0.4%	0.5%	0.2%	0.6%	0.8%	0.6%	1.0%



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 7 IDT's from 2014/15 to 2015/16.

New Housing

400+ to 600+ 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.

What does the future hold - overall?

115% kindergarten capture rate plus positive net migration and new residential units points to an increase in overall enrollment. The increase is projected to be gradual and mostly at the TK-6 level. Davis Demographics suggests using the Conservative estimate until future development plan come into better focus.

What does the future hold – facilities?

	3 year	6 years	9 years
TK-6	118	232	233
7-9	-36	-18	142
10-12	2	-27	-10

What to watch for?

- Migration patterns – 61% positive
- In-district population – slight decline
- **Future kindergarten enrollment – 115% of births from 5 years prior**
- Independent study students – Anomaly in the student data

Questions?

