



# **Fall 2017/18 Report**

## **Student Population Forecast**

### **Fall 2018/19 – 2027/28**

**Presented to the  
DJUSD Board of Education  
March 15<sup>th</sup>, 2018**

# 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

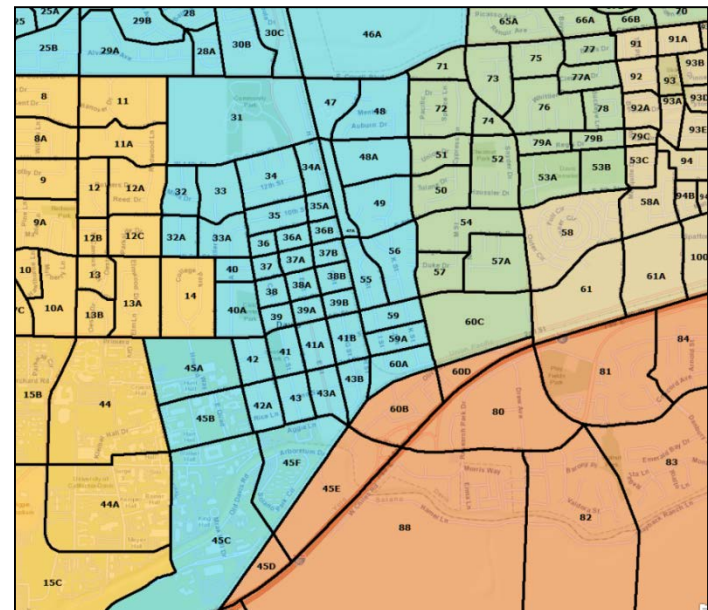
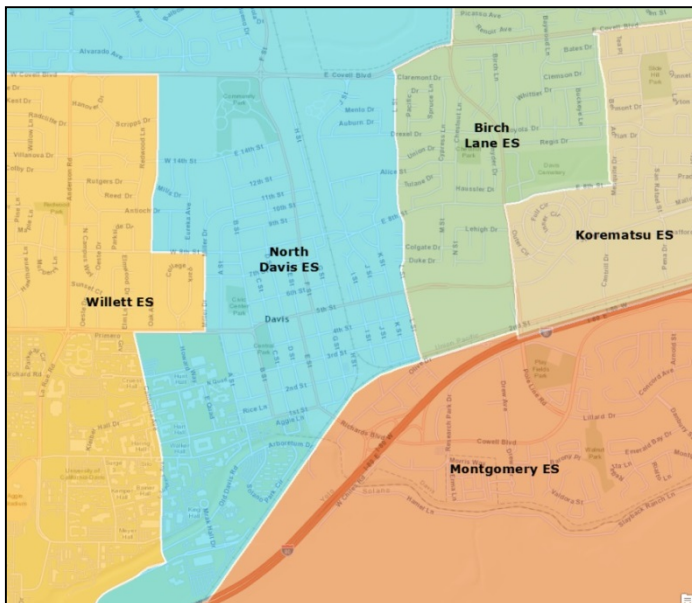
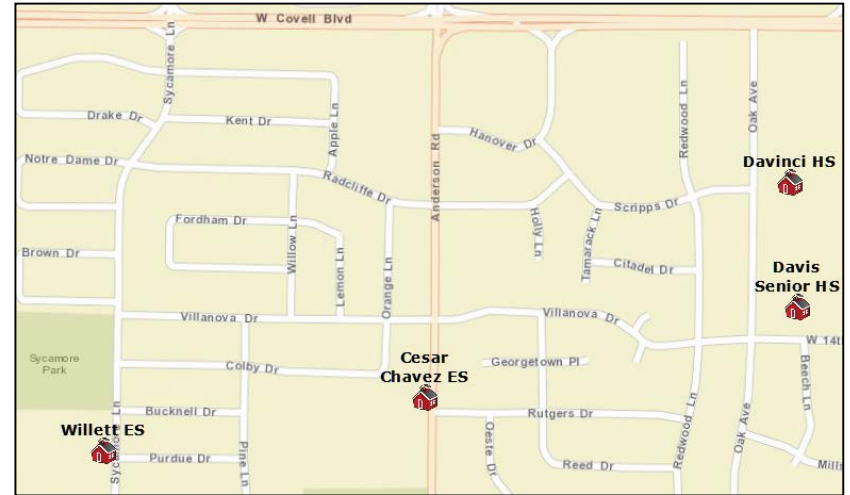
## DDP and the DJUSD

- DDP has been assisting the DJUSD since the 2006/07 school year
- Forecast in 2007/08 school year is within 1.5% accuracy of the 2017/18 actual enrollment

## Comments from 2016/17 Board Presentation

- 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?

# Data Collection



# Data Collection

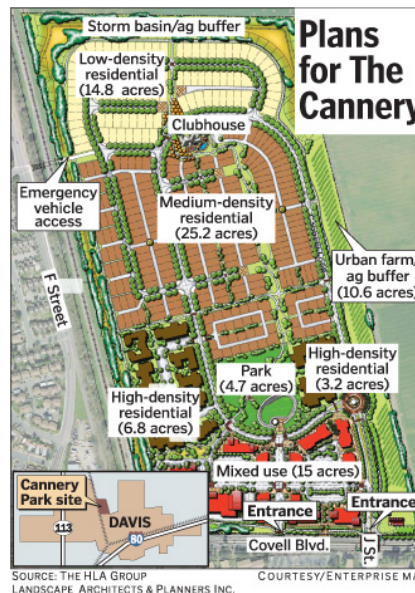
Each student is geocoded to their given address



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	

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 2017/18 and historical student data from 2014/15 – 2016/17
- 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 retention patterns have the largest influence on enrollment projections because they are applied to 1st thru 12th grade for each year of the projection. Retention 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

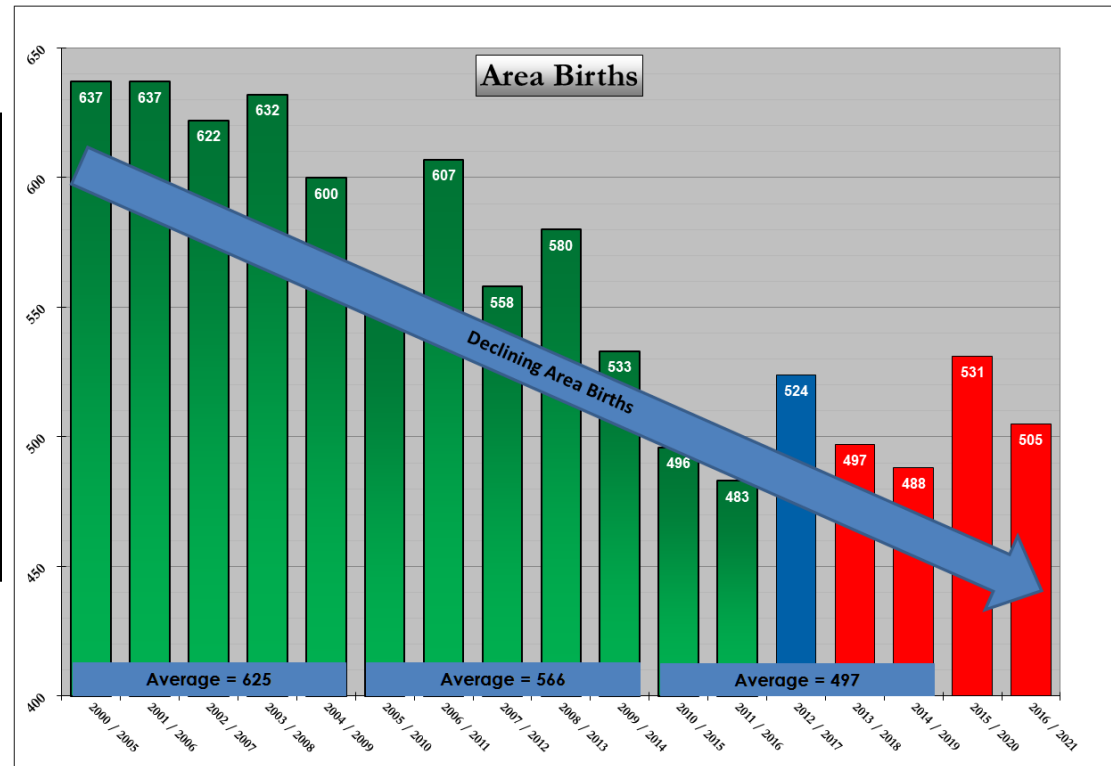
# Incoming Kindergarten

**Comparison of Births vs. Kindergarten**

Birth Year/K Year	Birth Total	K Class**
2009 / 2014*	533	576
2010 / 2015*	496	572
2011 / 2016*	483	522
2012 / 2017*	524	559
2013 / 2018*	497	?
2014 / 2019*	488	?
2015 / 2020*	531	?
2016 / 2021*	505	?

\*Does not include TK Students

\*\*Includes K students residing outside of the district boundaries



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 retention of students as they base through grades. Including move ins, move outs, new students from infill housing, drop outs, private school movement, etc.

**Mobility is used to estimate future student retention patterns**

**Areas with a mobility above 1.000 are experiencing a positive retention pattern**

Davis Joint Union School District Mobility by Elementary Attendance Area 2014/15 - 2017/18												
	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.	99%	103%	106%	98%	102%	101%	106%	96%	101%	102%	98%	95%
Korematsu E.S.	102%	102%	102%	105%	101%	103%	102%	100%	95%	102%	95%	96%
Montgomery E.S.	99%	96%	98%	98%	98%	100%	97%	93%	98%	95%	93%	95%
North Davis E.S.	95%	101%	104%	98%	108%	99%	112%	108%	99%	108%	113%	106%
Patwin E.S.	109%	105%	101%	103%	95%	100%	108%	105%	97%	97%	95%	96%
Pioneer E.S.	110%	110%	105%	107%	98%	100%	96%	103%	99%	95%	100%	96%
Willett E.S.	112%	104%	100%	99%	104%	100%	103%	100%	112%	96%	99%	98%

**65% of the district is experiencing positive retention rates. This is the 3<sup>rd</sup> year in a row of increasingly positive retention**

Attendance Area Birch Lane ES							Projection Date 10/7/2017
ACTUAL		PROJECTED RESIDENT STUDENTS					
	2017	2018	2019	2020	2021	2022	2023
K	61	58.1	57.5	63.2	60.8	63.6	63.1
1	77	60.6	58.0	57.9	63.6	61.2	62.9
2	84	79.5	63.0	60.8	60.7	66.6	63.0
3	103	89.3	84.9	67.9	65.6	65.4	70.6
4	85	101.2	88.1	84.2	67.5	65.3	64.1
5	88	86.9	103.8	90.9	86.9	69.9	66.6
6	99	89.1	88.4	105.8	92.8	88.9	70.6
		99%	103%	106%	98%	102%	101%

Birch Lane E.S.	K → G1	G1 → G2	G2 → G3	G3 → G4	G4 → G5	G5 → G6
	99%	103%	106%	98%	102%	101%

# Residential Development

Study Area	Project Name	Type	Total Units	Developer	Area
7C	Davis Live	APT	71	Latigo Group LLC	
15	West Village	SFD	475	West Village LLC	
30	Grande Village	SFD	41	Fouts Homes	
36	B Street Apartments	APT	11	City	
42A	Mission Residences	SFD	14	City	
45E	Nishi	MFA	700	N/A	
46A	Persimmon 2/2	SFD	22	Shea Homes	Cannery Park
46A	Heirloom 2/2 The Cannery	MFA	30	New Home Company	Cannery Park
46A	Tilton 2/2 The Cannery	SFD	38	Shea Homes	Cannery Park
46A	Beech 1/2 The Cannery	SFD	42	CalAtlantic	Cannery Park
46A	Gala 1/2 The Cannery	MFA	60	New American Homes	Cannery Park
46A	Gala 2/2 The Cannery	MFA	60	New American Homes	Cannery
46A	Heirloom 1/2 The Cannery	MFA	42	New Home Company	Cannery
46A	Beech 2/2 The Cannery	SFD	30	CalAtlantic	Cannery
46A	Persimmon 1/2	SFD	22	Shea Homes	Cannery
46A	Tilton 1/2 The Cannery	SFD	38	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	Bartlett Commons	APT	62	CFY Development	Cannery
46A	Cannery Market Place	APT	90	CFY Development	Cannery Park
53B	Chiles Ranch	SFD	96	Fouts Homes	
59A	Trackside Center	APT	27	Trackside LLC	
60B	Lincoln 40 Apts	APT	130	City	
61	Sterling 5th Apts	APT	244	Davis LLC	
61A	Del Rio Live Work	SFD	16	Red Door Building Co	
66B	Paso Fino Subdivision	SFD	6	Premier Homes	
81	Plaza 2555 Apts	APT	200	Richard Harris	
85	Willow Creek	SFD	35	Comstock Homes	
100	Creekside Apts	APT	72	City	
102A	3820 Chiles Road Apts	APT	222	Chuck Cunningham	
104A	BerryBridge Cottages	SFD	8		
109	The Villas at El Macero	SFD	16	Fouts Homes	

## 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 DJUSD staff

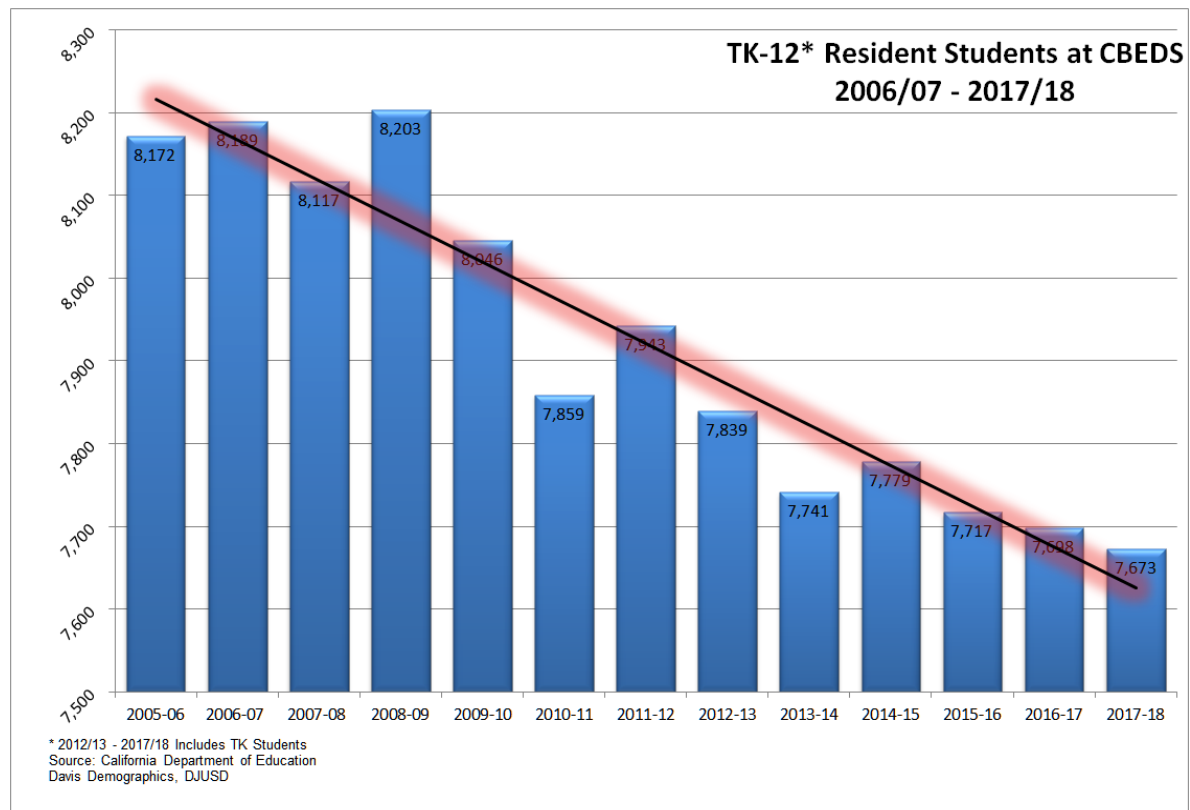
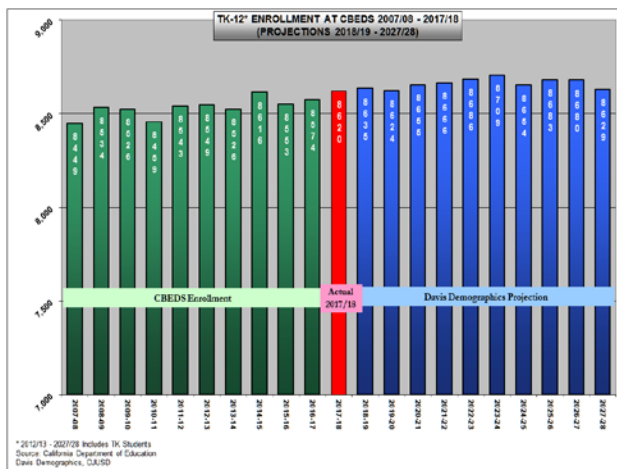
\*Student Yields Factors based upon Verona development

Only Approved developments are included in projections



# District Wide Projections

	Current	Projected									
	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
TK-6	4,320	4,258.1	4,259.3	4,285.1	4,242.5	4,231.2	4,231.5	4,229.0	4,256.8	4,289.3	4,276.2
7-9	2,140	2,197.6	2,177.9	2,207.0	2,198.8	2,246.4	2,248.7	2,205.5	2,159.7	2,112.2	2,115.9
10-12	2,160	2,179.5	2,187.2	2,163.3	2,224.4	2,208.4	2,228.3	2,219.9	2,266.2	2,278.4	2,237.0
TK-12	8,620	8,635.2	8,624.4	8,655.4	8,665.7	8,686.0	8,708.5	8,654.4	8,682.7	8,679.9	8,629.1



Pages 12-13 – Fall 2017/18  
Projection Forecast

# Observations

## Births in the Area

Average births per year dropped from 625 (2000 – 2004) to 497 (2010-2014). With an uptick in 2015 and 2016, the 2020/21 and 2021/22 K class.

## New Housing

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

## Resident Enrollment/Total Enrollment

Positive net retention, increased IDT's and to a lesser extent new housing have helped mask declining resident student population and kept DJUSD's total enrollment fairly level.

## What does the future hold?

If current patterns hold, total enrollment should fluctuate (+/- 1%) around approximately 8,600 TK-12 students for the next ten years. However, should there be a negative change in student retention patterns and/or inter-district transfers, the District may see declining enrollment in the future.

## What to watch for?

- Retention patterns – 62% positive (2<sup>nd</sup> straight year of increase)
- Retention patterns – 65% positive (3<sup>rd</sup> straight year of increase)
- In-district population – 7 of last 11 years have shown resident student decline
- In-district population – 8 of last 12 years have shown resident student decline
- Future kindergarten enrollment – Declining area births = smaller K enrollment?
- Future kindergarten enrollment – K enrollment increased in 2017/18 driven by increased area births from 2011 to 2012
- Between 2012 and 2016 three out of the four years have less births than 2012

# Questions?

