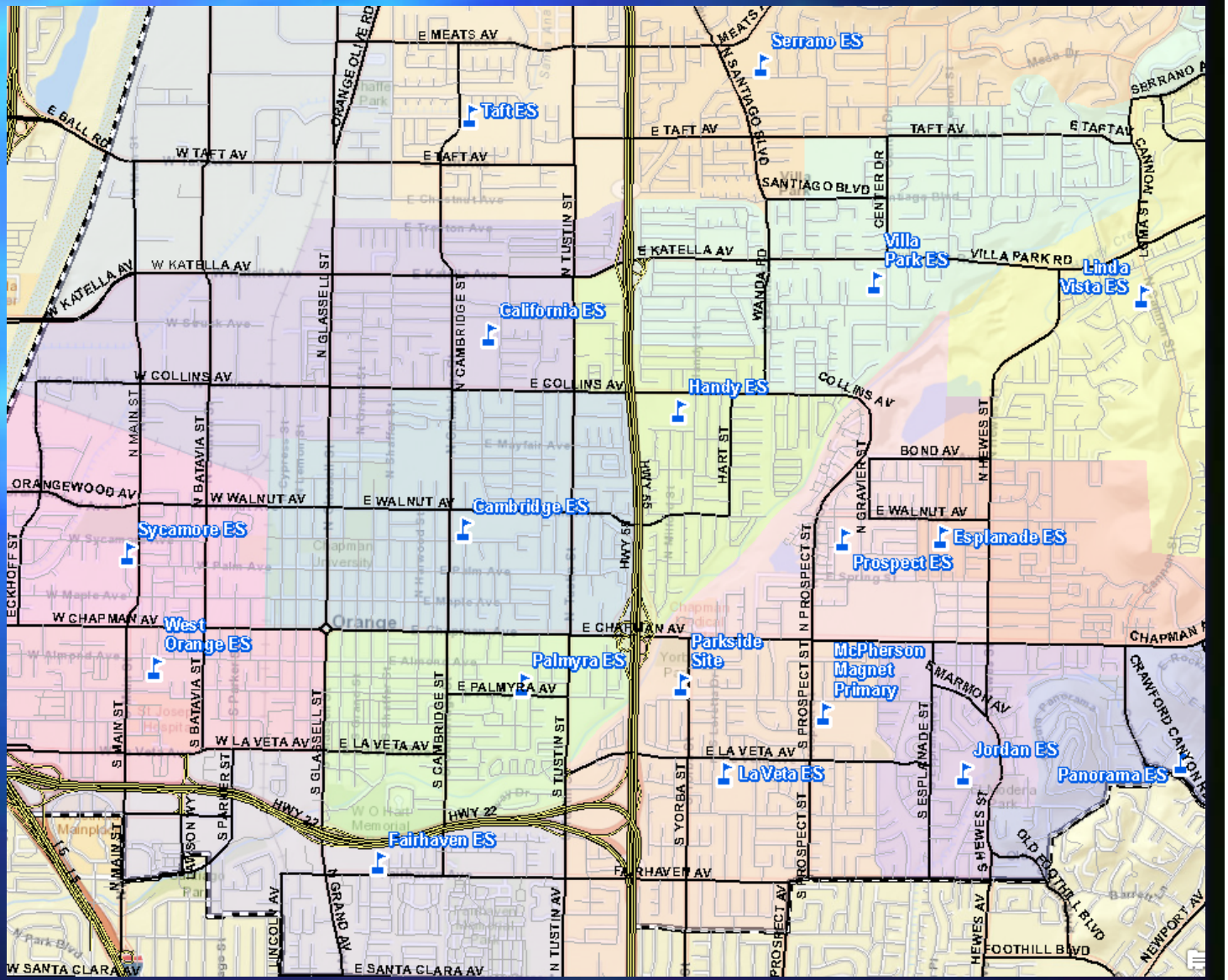
Orange Unified School District
Demographic Study

July 25, 2013

Presentation to the Orange Unified School District's Governing Board



Davis Demographics & Planning, Inc.

Work Accomplished by DDP for Orange USD

- Updated mapping layers for the District
- Researched area development projects/plans
- Analyzed relevant area demographic data
- Developed 7-year student projections
- Provided a Demographic Projection Report with findings and analysis

Main Points

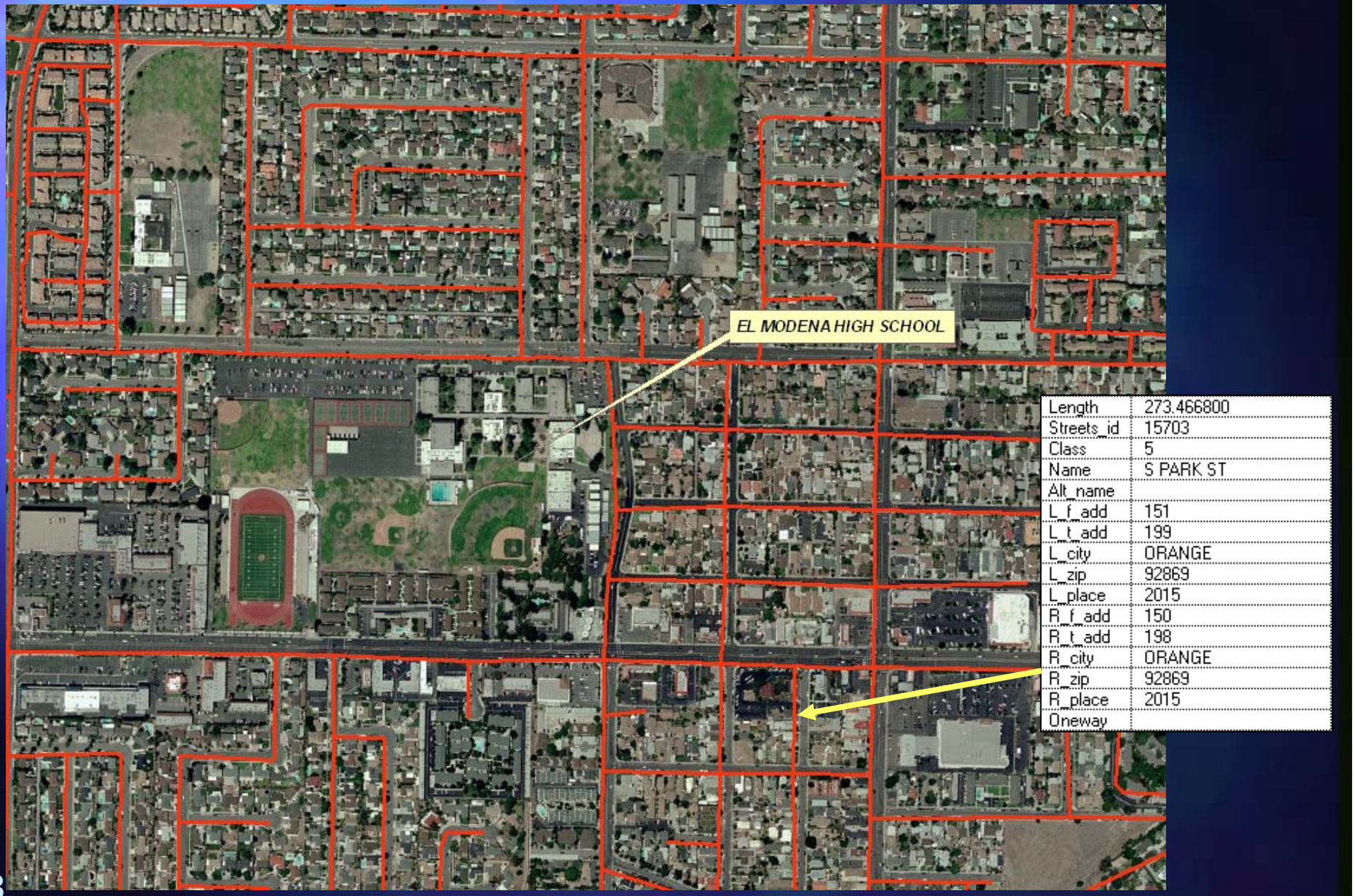
- DDP develops projections based on “residence”.
- Attendance Matrices show the current “Open Enrollment” patterns (inter- and intra-district transfers).

  [Pages 24-26 in the Report]
- Seven existing elementary attendance areas have student populations at or below 450 and five of them are below 400.

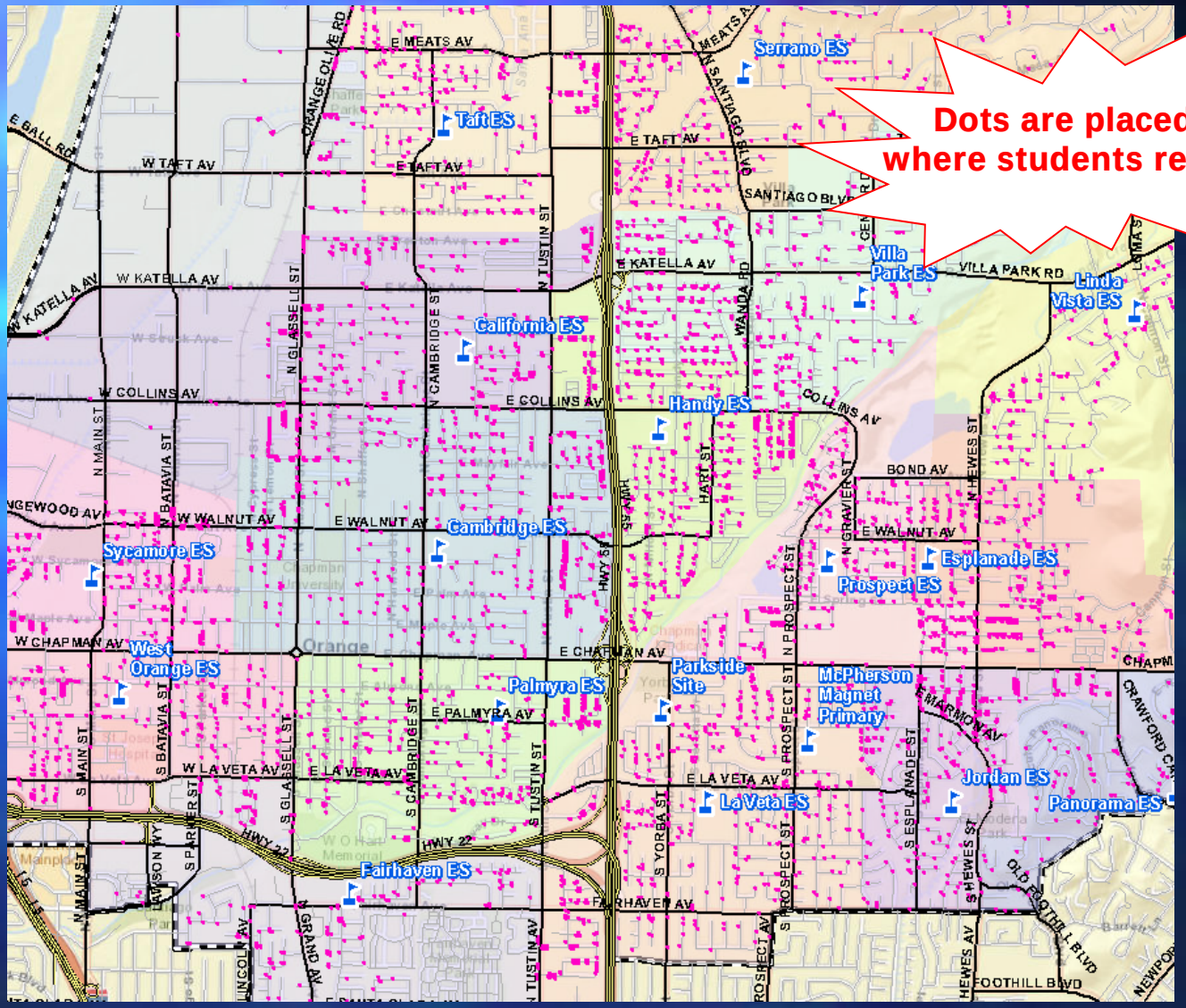
  (excludes “Open Enrollment”, Special Education and Out-of-District students)
- Five existing elementary schools have enrollment at or below 450 and two of them are below 400.

  (includes “Open Enrollment”, Special Education and Out-of-District students)
- Orange HS has very high “transfer out” rates and by far the largest resident population for its attendance area

Mapping- updated since 1996

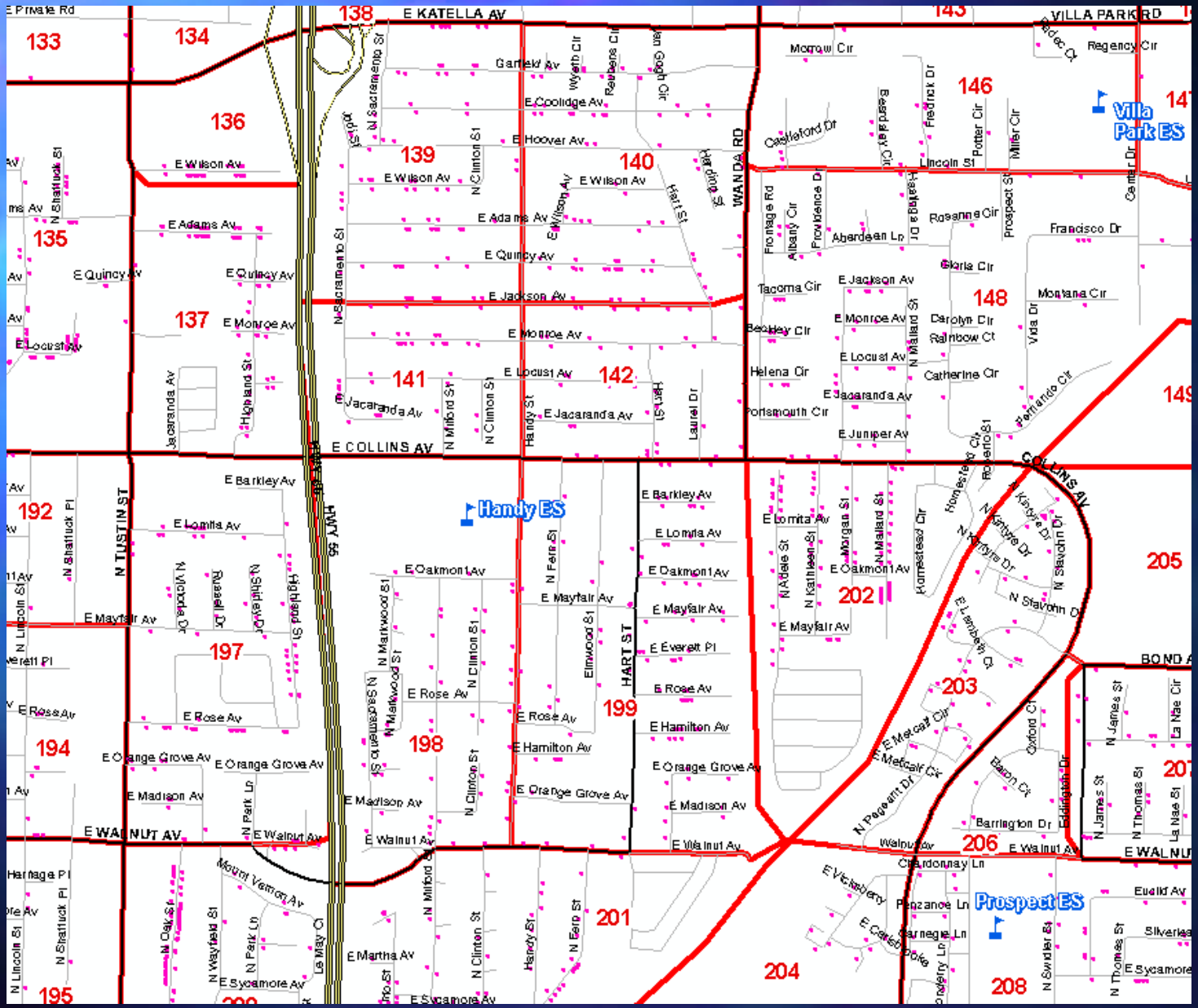


Mapping the District's Student Data

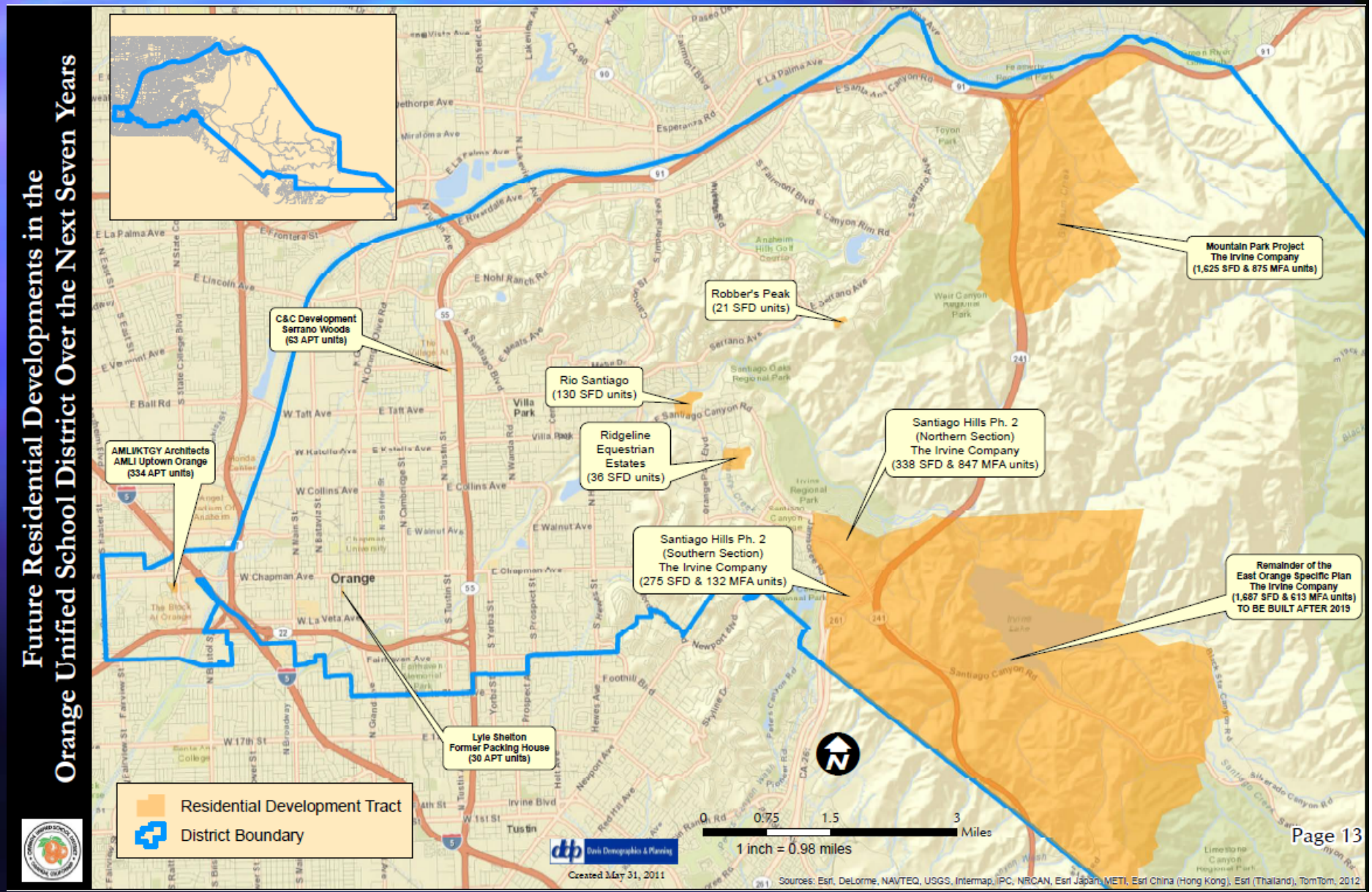


DDP used mapped ("geocoded") student data for the Orange Unified School District from 2009-2012

Study Areas (A total of 316)



Residential Development



Seven Year Projection Methodology

Projections were prepared for each of the 316 Study Areas

- Graduate 12th grade; move up other grades
- Estimate incoming K from past birth data by zip codes:

Birth Factors - by Zip Code

These Factors Take into Account the District's Transitional Kindergarten Plan

School Yr	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Zip Code	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
92807	0.966	1.056	1.032	1.014	1.033	1.040	0.984
92808	1.034	1.060	1.072	1.055	1.067	1.074	1.074
92865	1.170	1.180	1.289	1.324	1.280	1.266	1.266
92866	0.837	1.035	1.074	1.016	1.018	1.025	1.025
92867	1.027	1.046	0.965	0.927	0.985	1.007	1.007
92868	0.961	1.097	1.099	1.146	1.120	1.106	1.106
92869	1.057	1.146	1.039	1.071	1.100	1.103	1.103

- Add enrollment generated by new construction

SYF's	K-6	7-8	9-12	K-12
SFD	.325	.063	.123	.512
MFA	.153	.026	.044	.223
APT	.058	.007	.016	.081

	Oct. '12-'13	Oct. '13-'14	Oct. '14-'15	Oct. '15-'16	Oct. '16-'17	Oct. '17-'18	Oct. '18-'19
Projected Housing	**63**	**3**	**340**	**21**	**51**	**230**	**636**

- Modify enrollment based upon mobility/cohort factor from analysis of historical enrollment changes from grade to grade using a sample of study areas in each elementary school attendance area.

District Wide Projections by "Residence"

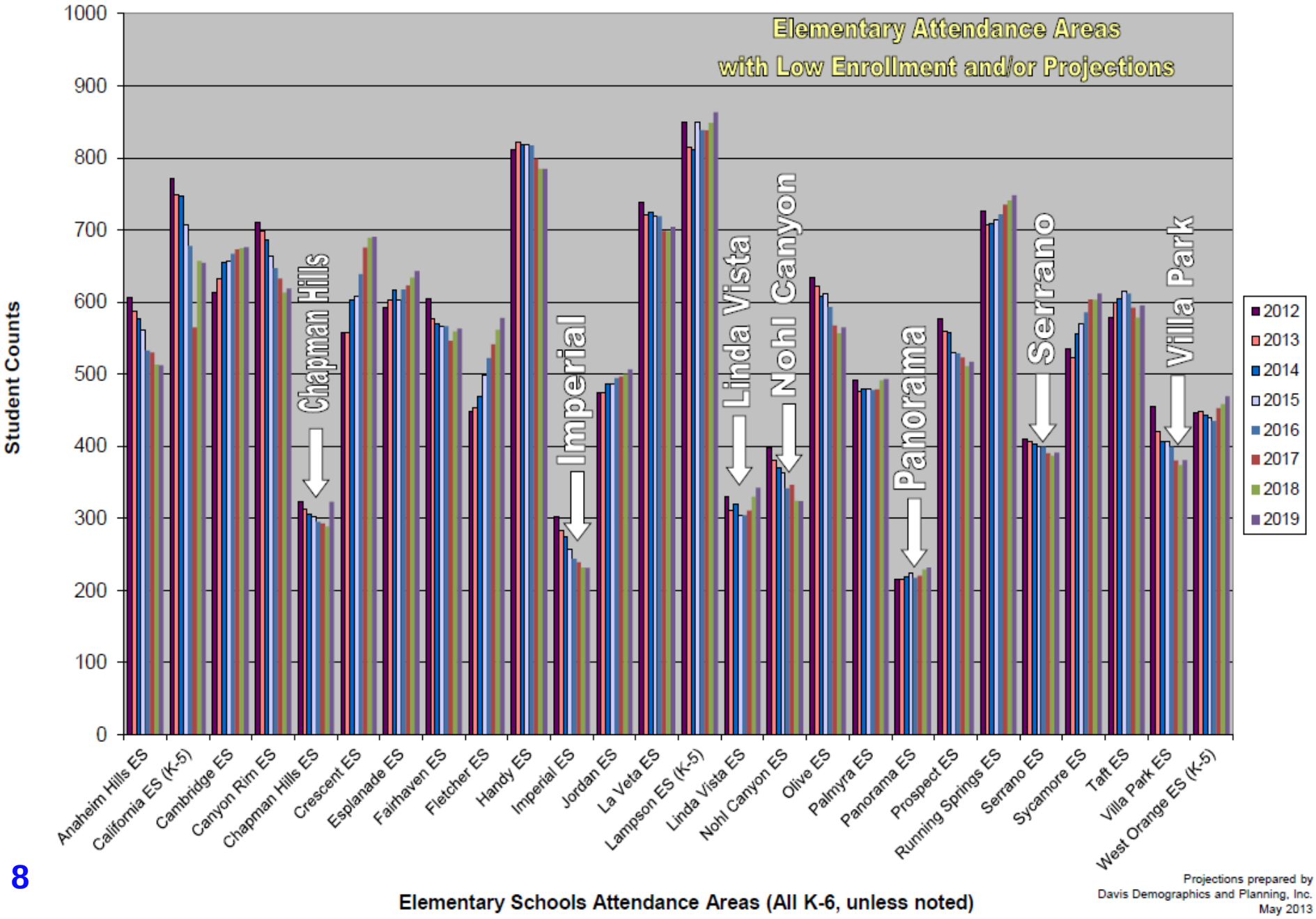
Projection Date 10/3/2012

		Actual Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
	TK	320	480.0	480.0	470.5	469.8	475.9	479.0	480.9
	K	1,895	1,914.4	2,065.7	2,024.8	2,021.7	2,048.0	2,061.3	2,069.4
	1	2,108	1,922.0	1,942.3	2,098.9	2,052.5	2,050.1	2,082.3	2,112.5
	2	2,131	2,082.4	1,895.3	1,922.4	2,069.9	2,024.7	2,026.6	2,073.8
	3	2,076	2,142.1	2,098.4	1,911.0	1,933.1	2,081.3	2,041.0	2,057.6
	4	2,114	2,074.1	2,142.0	2,101.4	1,909.9	1,931.5	2,084.6	2,059.8
	5	2,041	2,128.7	2,086.6	2,161.4	2,115.6	1,924.8	1,951.4	2,120.6
	6	2,121	2,045.7	2,132.3	2,098.1	2,164.5	2,119.6	1,935.9	1,977.4
	7	2,196	2,129.7	2,057.0	2,153.4	2,113.7	2,179.8	2,146.9	1,963.1
	8	2,174	2,198.2	2,132.7	2,065.3	2,156.9	2,120.5	2,191.5	2,168.9
	9	2,106	2,199.8	2,222.7	2,162.6	2,090.7	2,187.9	2,156.9	2,238.0
	10	2,138	2,083.5	2,178.5	2,201.9	2,141.6	2,068.2	2,169.7	2,150.3
	11	2,165	2,108.8	2,051.6	2,149.9	2,169.1	2,111.2	2,041.0	2,149.4
	12	2,231	2,098.8	2,046.4	1,991.2	2,083.4	2,099.8	2,050.7	1,988.8
Sub Total:	TK-6	14,806	14789.4	14842.6	14788.5	14737.0	14655.9	14662.1	14952.0
	7-8	4,370	4327.9	4189.7	4218.7	4,270.6	4,300.3	4,338.4	4,132.0
	9-12	8,640	8490.9	8499.2	8505.6	8,484.8	8,467.1	8,418.3	8,526.5
	TK-12	27,816	27,608.2	27,531.5	27,512.8	27,492.4	27,423.3	27,418.8	27,610.5
***SDC:**	K-6	589	581.8	584.0	582.2	580.1	576.6	576.7	588.4
	7-8	166	164.4	159.2	160.3	162.2	163.4	164.8	157.0
	9-12	318	312.5	312.8	313.1	312.3	311.6	309.8	313.8
	K-12	1,073	1,058.7	1,056.0	1,055.5	1,054.6	1,051.5	1,051.3	1,059.2
Out-of-District:	K-6	331	331.0	331.0	331.0	331.0	331.0	331.0	331.0
	7-8	87	87.0	87.0	87.0	87.0	87.0	87.0	87.0
	9-12	325	325.0	325.0	325.0	325.0	325.0	325.0	325.0
	K-12	743	743.0	743.0	743.0	743.0	743.0	743.0	743.0
****Unmatched:**	K-6	5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	7-8	2	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	9-12	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	K-12	11	11.0	11.0	11.0	11.0	11.0	11.0	11.0

										Change from 2012-2019		
										#	%	
Totals	**TK-6**	**15,731.0**	**15,707.2**	**15,762.6**	**15,706.7**	**15,653.1**	**15,568.4**	**15,574.8**	**15,876.4**	**145.4**	**0.9%**	**TK-6**
	7-8	**4,625.0**	**4,579.3**	**4,435.9**	**4,466.0**	**4,519.8**	**4,550.7**	**4,590.2**	**4,376.0**	**-249.0**	**-5.4%**	**7-8**
	9-12	**9,287.0**	**9,128.4**	**9,137.0**	**9,143.7**	**9,122.1**	**9,103.7**	**9,053.1**	**9,165.3**	**-121.7**	**-1.3%**	**9-12**
	TK-12	**29,643.0**	**29,420.9**	**29,341.5**	**29,322.3**	**29,301.0**	**29,228.8**	**29,224.1**	**29,423.6**	**-219.4**	**-0.7%**	**TK-12**

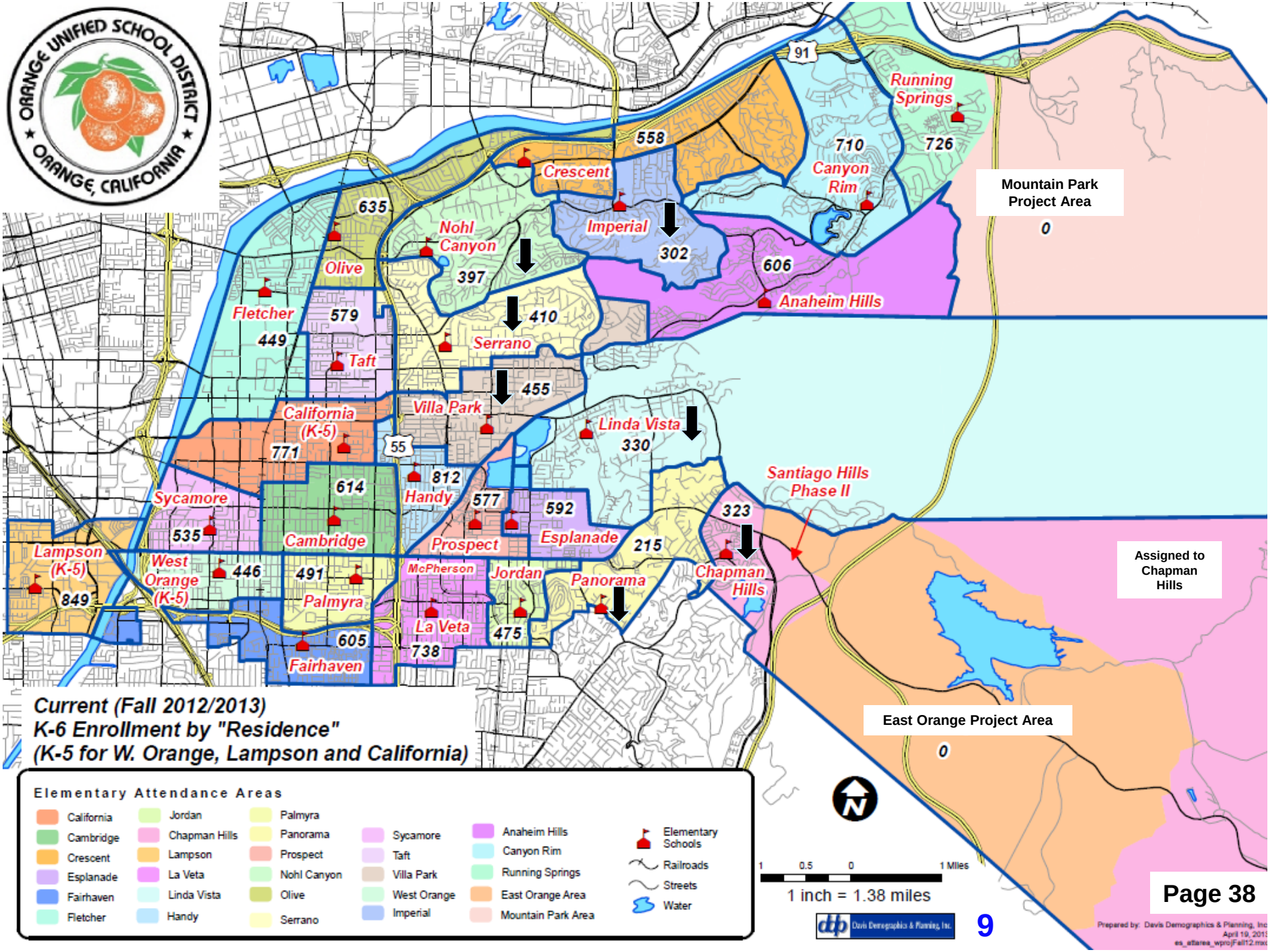
	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
TK-6 Annual Change:		-23.8	55.4	-55.9	-53.6	-84.6	6.3	301.6
7-8 Annual Change:		-45.7	-143.4	30.1	53.9	30.8	39.5	-214.2
9-12 Annual Change:		-158.6	8.6	6.6	-21.6	-18.4	-50.6	112.2
K-12 Annual Change:		-222.1	-79.5	-19.2	-21.3	-72.2	-4.7	199.5

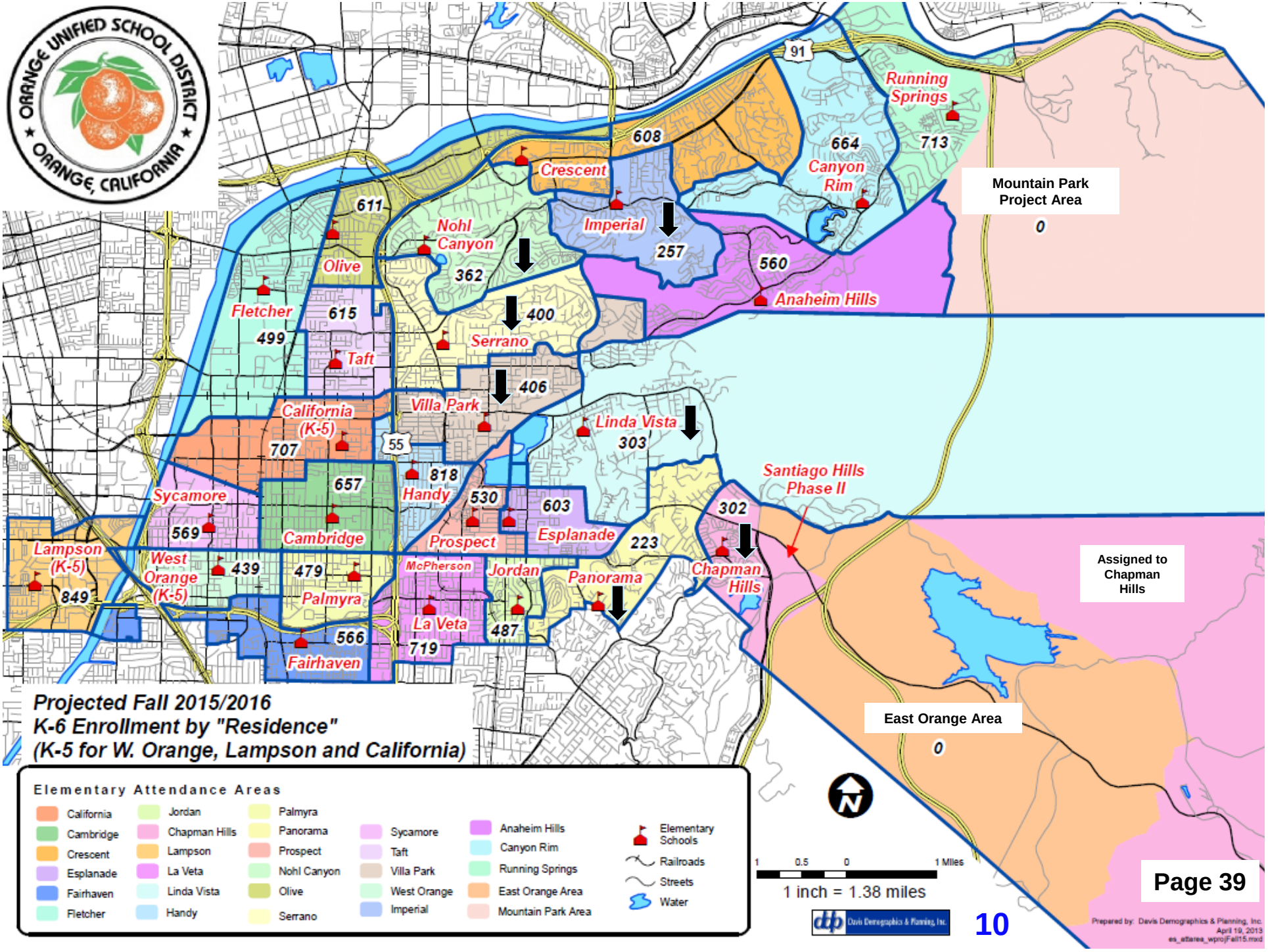
Orange USD
Elementary Attendance Area Projections
(Residence Based)



Elementary Schools Attendance Areas (All K-6, unless noted)

Projections prepared by
Davis Demographics and Planning, Inc.
May 2013


ORANGE UNIFIED SCHOOL DISTRICT
ORANGE, CALIFORNIA
Current (Fall 2012/2013)
K-6 Enrollment by "Residence"
(K-5 for W. Orange, Lampson and California)
Mountain Park Project Area
0
East Orange Project Area
0
Assigned to Chapman Hills
Santiago Hills Phase II
Running Springs
726
710
Canyon Rim
558
Crescent
635
Nohl Canyon
397
Imperial
302
606
Anaheim Hills
Olive
Fletcher
579
449
Taft
410
Serrano
455
Villa Park
California (K-5)
771
55
Linda Vista
330
812
Handy
577
592
614
Sycamore
535
Cambridge
Prospect
Esplanade
215
323
Chapman Hills
Lampson (K-5)
849
West Orange (K-5)
446
491
Palmyra
McPherson
Jordan
Panorama
La Veta
475
738
605
Fairhaven
Elementary Attendance Areas
California
Cambridge
Crescent
Esplanade
Fairhaven
Fletcher
Jordan
Chapman Hills
Lampson
La Veta
Linda Vista
Handy
Palmyra
Panorama
Prospect
Nohl Canyon
Olive
Serrano
Sycamore
Taft
Villa Park
West Orange
Imperial
Anaheim Hills
Canyon Rim
Running Springs
East Orange Area
Mountain Park Area
Elementary Schools
Railroads
Streets
Water
1 0.5 0 1 Miles
1 inch = 1.38 miles
Prepared by: Davis Demographics & Planning, Inc.
April 19, 2013


ORANGE UNIFIED SCHOOL DISTRICT
ORANGE, CALIFORNIA
Running Springs
713
664
Canyon Rim
608
Crescent
Imperial
257
560
Anaheim Hills
Mountain Park Project Area
0
611
Nohl Canyon
362
Olive
Fletcher
615
499
Taft
400
Serrano
406
Villa Park
California (K-5)
707
55
Linda Vista
303
Santiago Hills Phase II
818
657
Handy
530
603
Esplanade
302
Sycamore
569
Cambridge
Prospect
223
Lampson (K-5)
849
West Orange (K-5)
439
479
McPherson
Jordan
Panorama
Chapman Hills
Palmyra
La Veta
487
566
719
Fairhaven
Assigned to Chapman Hills
East Orange Area
0
Projected Fall 2015/2016
K-6 Enrollment by "Residence"
(K-5 for W. Orange, Lampson and California)
Elementary Attendance Areas
California
Cambridge
Crescent
Esplanade
Fairhaven
Fletcher
Jordan
Chapman Hills
Lampson
La Veta
Linda Vista
Handy
Palmyra
Panorama
Prospect
Nohl Canyon
Olive
Serrano
Sycamore
Taft
Villa Park
West Orange
Imperial
Anaheim Hills
Canyon Rim
Running Springs
East Orange Area
Mountain Park Area
Elementary Schools
Railroads
Streets
Water
1 0.5 0 1 Miles
1 inch = 1.38 miles
Page 39
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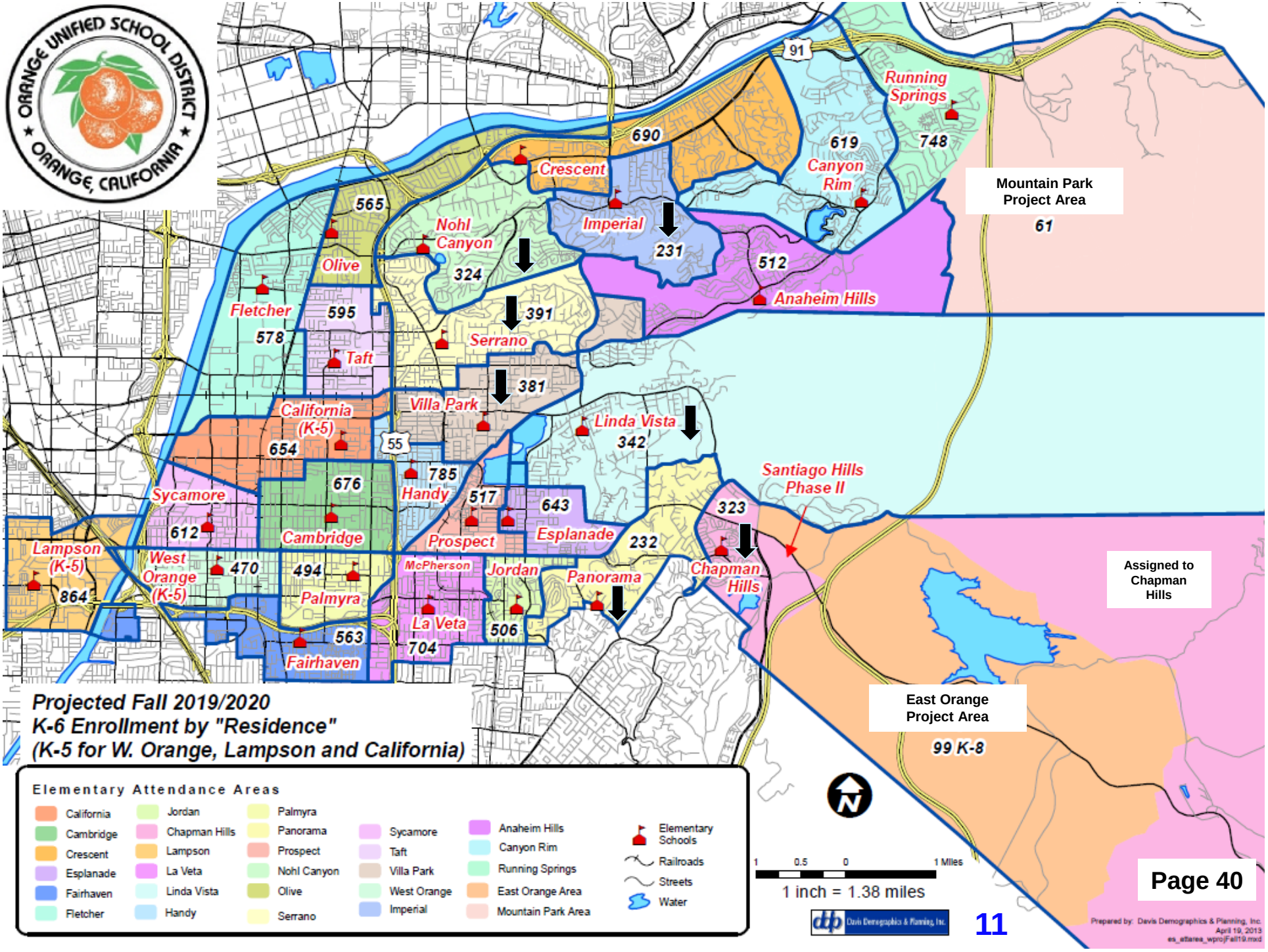
ORANGE UNIFIED SCHOOL DISTRICT
ORANGE, CALIFORNIA
Projected Fall 2019/2020
K-6 Enrollment by "Residence"
(K-5 for W. Orange, Lampson and California)
Mountain Park Project Area
61
Assigned to Chapman Hills
East Orange Project Area
99 K-8
Running Springs
748
619
Canyon Rim
690
Crescent
Imperial
231
512
Anaheim Hills
565
Nohl Canyon
324
Olive
Fletcher
595
578
Taft
391
Serrano
381
Villa Park
California (K-5)
654
55
Linda Vista
342
785
Handy
517
643
Santiago Hills Phase II
323
Sycamore
676
612
Cambridge
Prospect
Esplanade
232
Lampson (K-5)
West Orange (K-5)
470
494
McPherson
Jordan
Panorama
Chapman Hills
864
Palmyra
La Veta
506
563
704
Fairhaven
91
Elementary Attendance Areas
California
Cambridge
Crescent
Esplanade
Fairhaven
Fletcher
Jordan
Chapman Hills
Lampson
La Veta
Linda Vista
Handy
Palmyra
Panorama
Prospect
Nohl Canyon
Olive
Serrano
Sycamore
Taft
Villa Park
West Orange
Imperial
Anaheim Hills
Canyon Rim
Running Springs
East Orange Area
Mountain Park Area
Elementary Schools
Railroads
Streets
Water
1 0.5 0 1 Miles
1 inch = 1.38 miles
Davis Demographics & Planning, Inc.
Prepared by: Davis Demographics & Planning, Inc.
April 19, 2013
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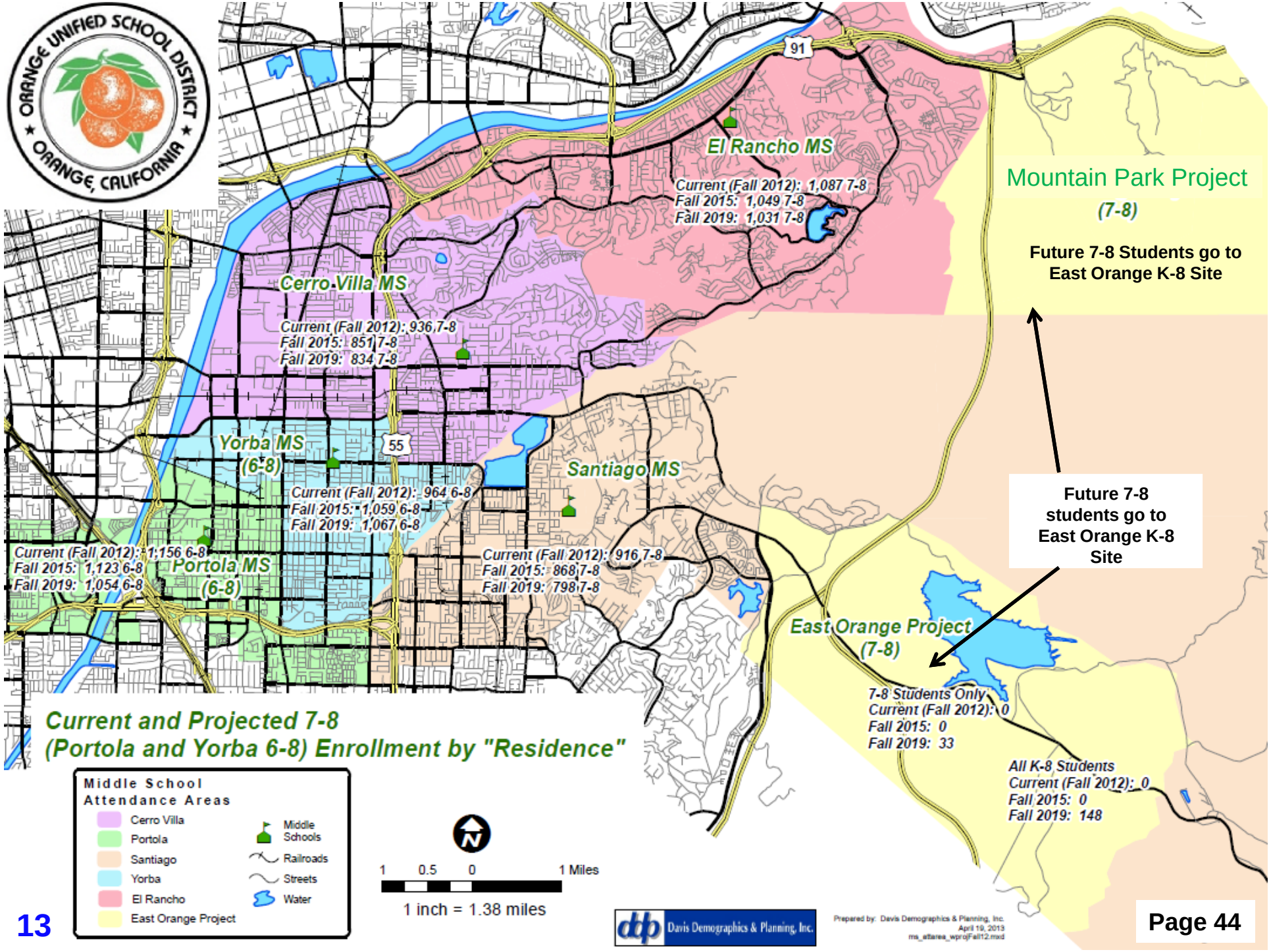
CONCLUSIONS AT THE ELEMENTARY LEVEL

- Projections indicate an overall increase of only 145 TK-6 students over the next seven years (almost 1% growth, but mostly due to Transitional Kindergarten increases).
- Any increases in the enrollment is dependent upon progress of large proposed projects by The Irvine Company.
- Current trends show that many elementary attendance areas in the District are expected to have their students populations continue to decline over the next seven years (in built-out areas).
- District may need to consider boundary adjustments and/or consolidating some of its smaller elementary schools (8 ES below 500 enrollment, 2 of them below 400, 2 around 850).


ORANGE UNIFIED SCHOOL DISTRICT
ORANGE, CALIFORNIA
91
55
El Rancho MS
Current (Fall 2012): 1,087 7-8
Fall 2015: 1,049 7-8
Fall 2019: 1,031 7-8
Mountain Park Project
(7-8)
Future 7-8 Students go to East Orange K-8 Site
Cerro Villa MS
Current (Fall 2012): 936 7-8
Fall 2015: 851 7-8
Fall 2019: 834 7-8
Yorba MS
(6-8)
Current (Fall 2012): 964 6-8
Fall 2015: 1,059 6-8
Fall 2019: 1,067 6-8
Santiago MS
Current (Fall 2012): 916 7-8
Fall 2015: 868 7-8
Fall 2019: 798 7-8
Portola MS
(6-8)
Current (Fall 2012): 1,156 6-8
Fall 2015: 1,123 6-8
Fall 2019: 1,054 6-8
Future 7-8 students go to East Orange K-8 Site
East Orange Project
(7-8)
7-8 Students Only
Current (Fall 2012): 0
Fall 2015: 0
Fall 2019: 33
All K-8 Students
Current (Fall 2012): 0
Fall 2015: 0
Fall 2019: 148
Current and Projected 7-8
(Portola and Yorba 6-8) Enrollment by "Residence"
Middle School Attendance Areas
Cerro Villa
Portola
Santiago
Yorba
El Rancho
East Orange Project
Middle Schools
Railroads
Streets
Water
1 0.5 0 1 Miles
1 inch = 1.38 miles
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April 19, 2013
ms_attarea_wprojFall12.mxd

CONCLUSIONS AT THE MIDDLE SCHOOL LEVEL

- As of Fall 2012, the District's five main MS's had enrollment ranging from 667 to 1,197 students (4,665 total enrollment plus 212 7-8 students at McPherson).
- Projections indicate net declines over the next two years at the MS level losing almost 190 7-8 students by Fall 2014.
- Overall, from Fall 2012-2019, the 7-8 student population could decline by 250 students (a 5.4% loss).
- There is not enough of a decline at the middle school level to need to make any changes at this time (however the number of students within the current Cerro Villa and Santiago's attendance areas could become considerably smaller).

Attendance Matrix (High Schools)

Orange Unified School District

SY 2012/2013 Report

Fall 2012/2013 9-12 (High School) Attendance Matrix

SCHOOL OF RESIDENCE / CURRENT ATTENDANCE AREA — SCHOOL OF ATTENDANCE

Attendance Area	9-12 Students	Canyon (390)	(9-12 only) Canyon Hills* (396)	El Modena (391)	Orange (392)	(11-12 only) Richland* (393)	Villa Park (394)	(9-12 only) Non Public School (3)	Community Day School (395)	OUSD Home School (397)	"Transfer Out" Rates
Canyon High School	2,104	2,022	0	11	2	19	50	0	0	0	3.9%
El Modena High School	1,724	65	0	1,448	21	83	98	0	9	0	16.0%
Orange High School	2,666	40	0	431	1,651	182	346	0	16	0	38.1%
Villa Park High School	2,146	113	0	43	66	56	1,863	0	5	0	13.2%
9-12 Sub Totals:	8,640	2,240	0	1,933	1,740	340	2,357	0	30	0	
Special Education/SDC Students:	318	37	22	87	96	13	63	0	0	0	
Non Public Schools:	17	0	0	0	0	0	0	17	0	0	
OUSD Home School:	73	0	0	0	0	0	0	0	0	73	
Unmatched**	4	0	0	2	0	0	1	0	1	0	
Out of District:	325	84	0	71	80	4	77	0	0	9	
9-12 Totals:	9,377	2,361	22	2,093	1,916	357	2,498	17	31	82	
# Enrolled, But Not Living in Attendance Area:	1598	302	--	556	169	--	571	--	--	--	
Open Enrollment % ("Transfers In"):	18.5%	13.5%	N/A	28.8%	9.7%	N/A	24.2%	N/A	N/A	N/A	
	District-wide										

The above data is based upon a database download provided to DDP by the OUSD representing enrollment around the Fall 2012 CBEDS date (early-October 2012).

** Canyon Hills and Richland Schools have no set attendance areas and ,therefore, pull students throughout the District boundary.*
*** "Unmatched" represents incomplete student address information and therefore could not be mapped.*

The upper matrix and the projections do not include 162 students with grades 14 or 15 (Adult Education).

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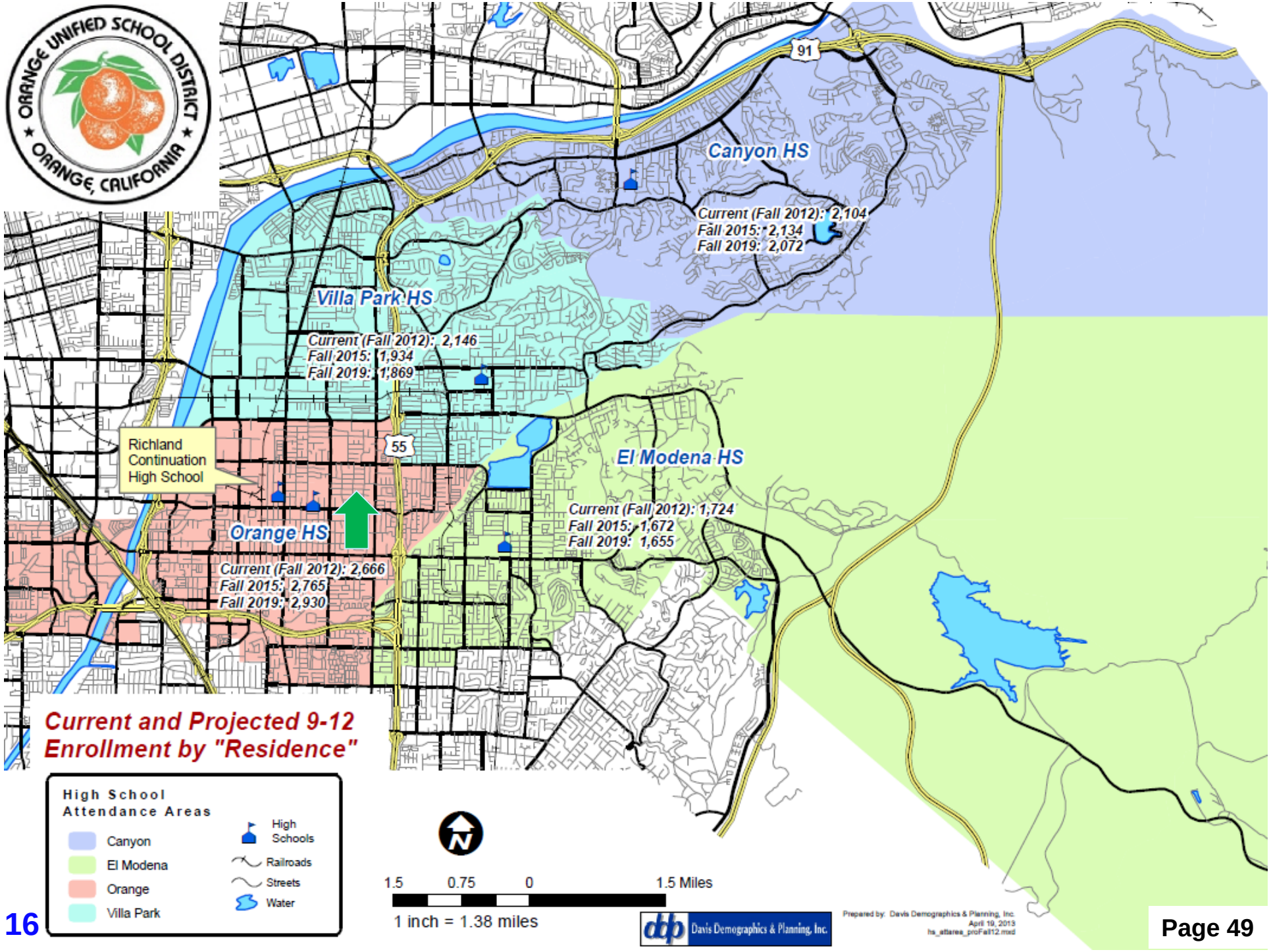
ORANGE UNIFIED SCHOOL DISTRICT
ORANGE, CALIFORNIA
91
Canyon HS
Current (Fall 2012): 2,104
Fall 2015: 2,134
Fall 2019: 2,072
Villa Park HS
Current (Fall 2012): 2,146
Fall 2015: 1,934
Fall 2019: 1,869
Richland Continuation High School
55
El Modena HS
Current (Fall 2012): 1,724
Fall 2015: 1,672
Fall 2019: 1,655
Orange HS
Current (Fall 2012): 2,666
Fall 2015: 2,765
Fall 2019: 2,930
Current and Projected 9-12 Enrollment by "Residence"
High School Attendance Areas
Canyon
El Modena
Orange
Villa Park
High Schools
Railroads
Streets
Water
N
1.5 0.75 0 1.5 Miles
1 inch = 1.38 miles
Davis Demographics & Planning, Inc.
Prepared by: Davis Demographics & Planning, Inc.
April 19, 2013
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CONCLUSIONS AT THE HIGH SCHOOL LEVEL

- As of Fall 2012, all four of the District's comprehensive high schools had enrollment over 1,900 students (9,377 overall 9-12 students).
- For Fall 2013, the 9-12 enrollment may decline by 159 students (9,128), level off then pick up again later (2019) when larger development may begin again.
- There is concern for Orange HS; largest resident population, huge "transfers out" and only HS area expected to grow.
- Could require boundary adjustments at the HS level.

QUESTIONS?