

State College Area School District

Enrollment Forecast Report 2016

Presented by



Who is DecisionInsite (DI)?

- Enrollment Impact Specialists, since 2004
- Working with 130+ districts in 9 states
- Services:
 - Enrollment Forecasts
 - Attendance Boundary Studies/Adjustments
 - Transit Products
 - Student Information System (SIS) Adjunct Solutions



Dean Waldfogel

Vice President

- Former Superintendent of the Irvine Unified School District
- District administrator for 32 years
- Designer of the Irvine enrollment projection model for a district growing from 10,000 to 30,000.



Bruce Terry

Senior Director

- Former K-8 principal
- Opened a K-8 school in a new housing development
- Current responsibilities for DI:
 - manages proposed residential development research
 - provides training of new clients
 - provides support for ongoing clients



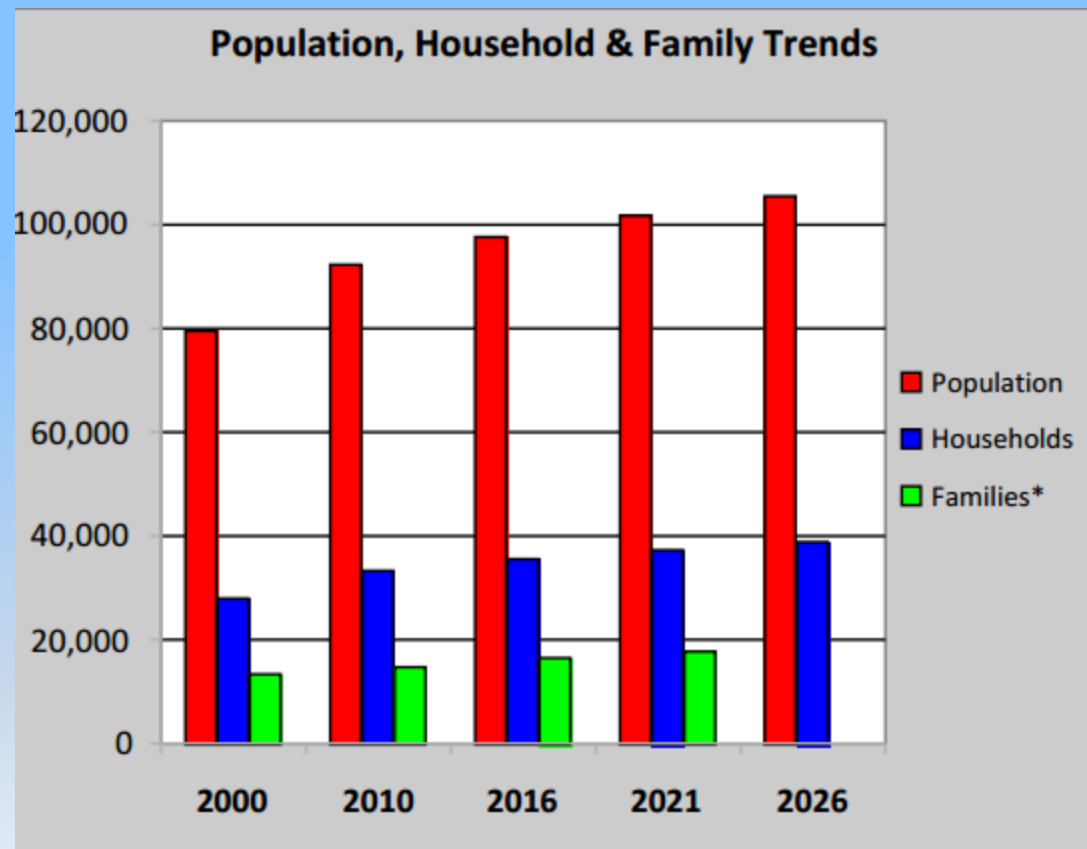
Presentation

- Selected Community Demographic Data & Trends
- Historical Enrollment Analysis
- Enrollment Forecast

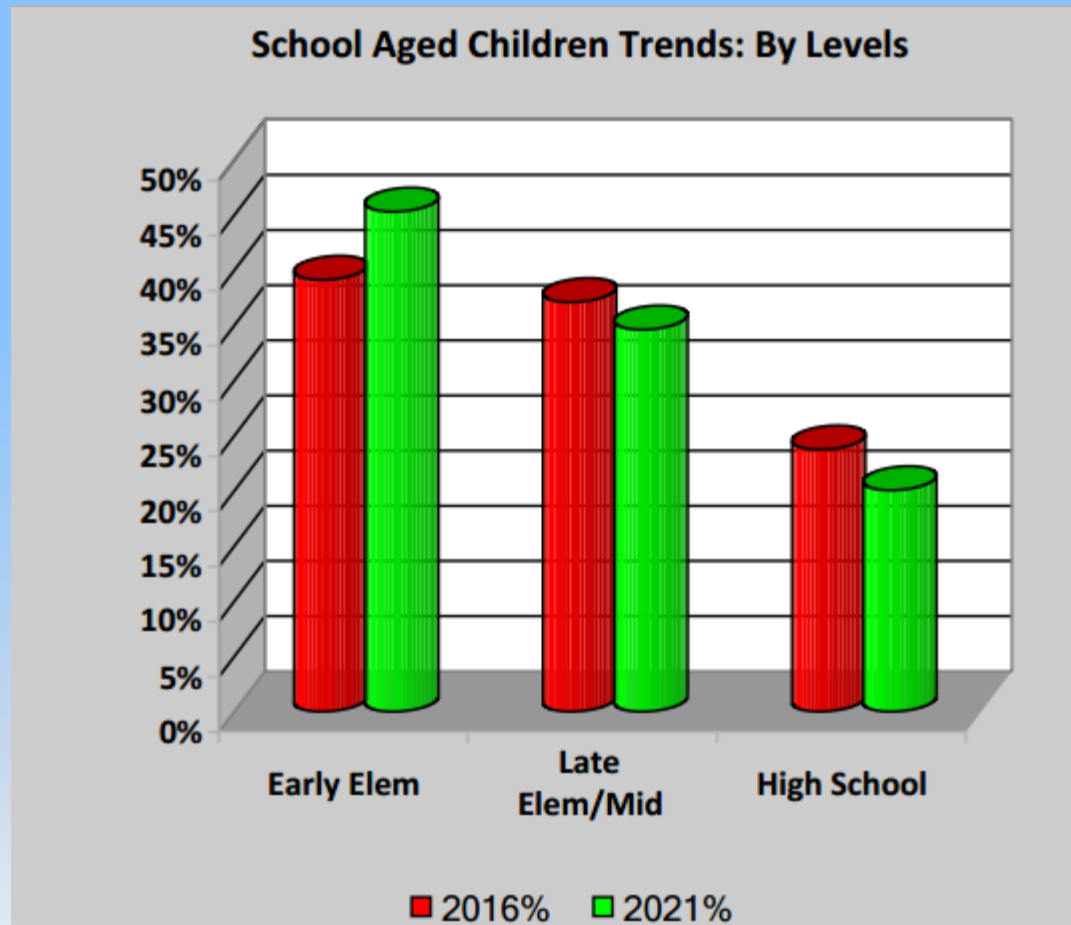
Selected Community Demographic Data & Trends

(Based on District Boundary)

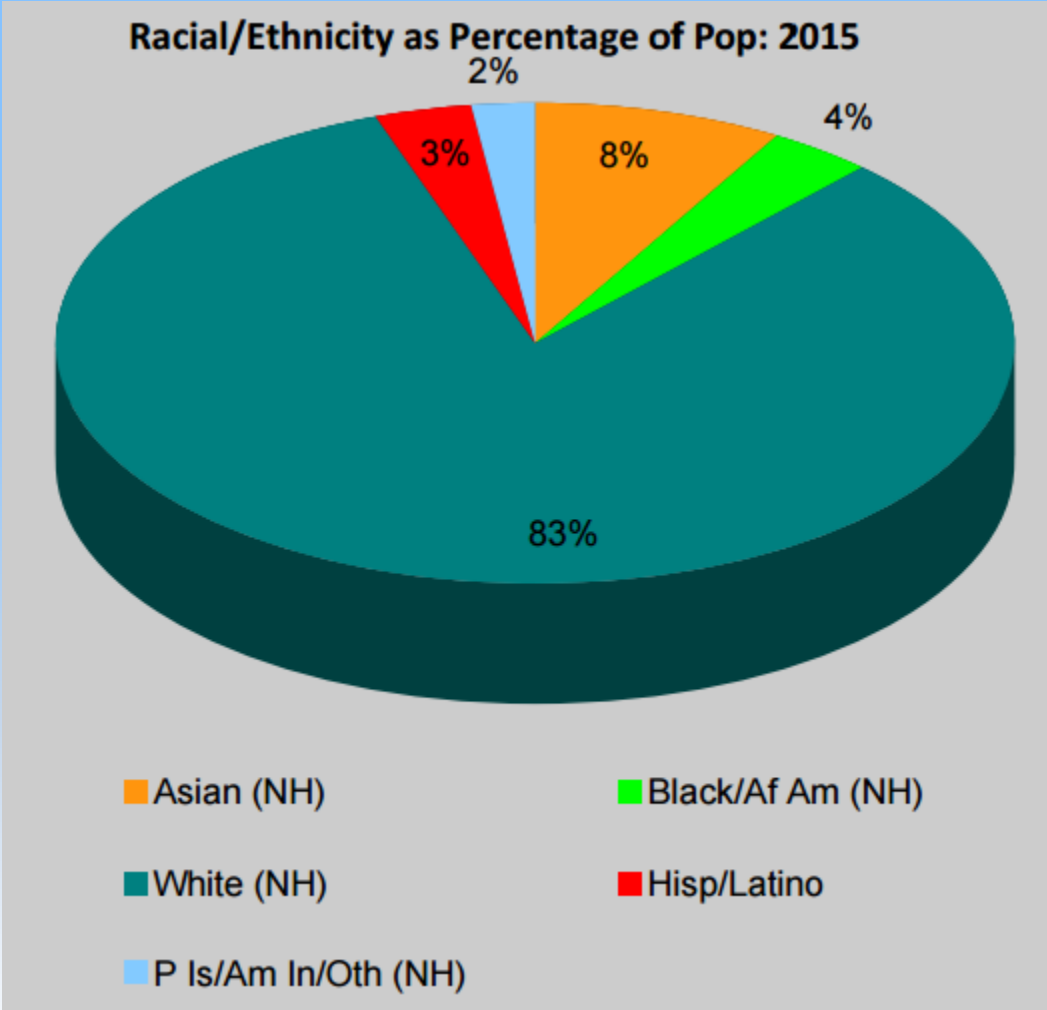
Population Trends



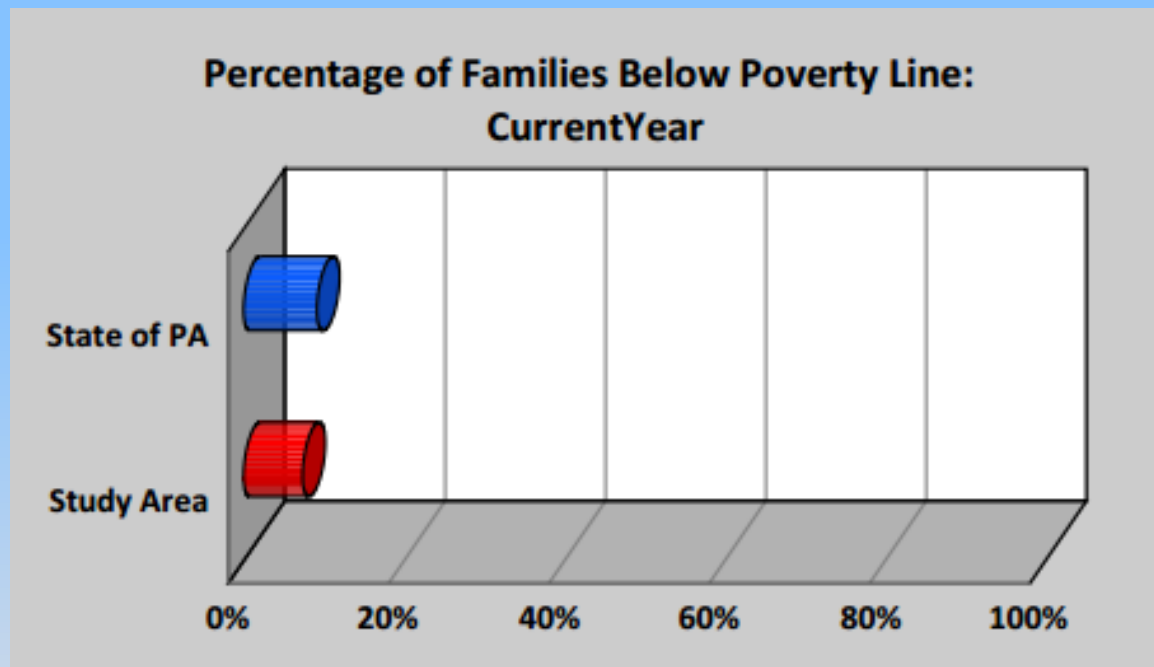
School Aged Children

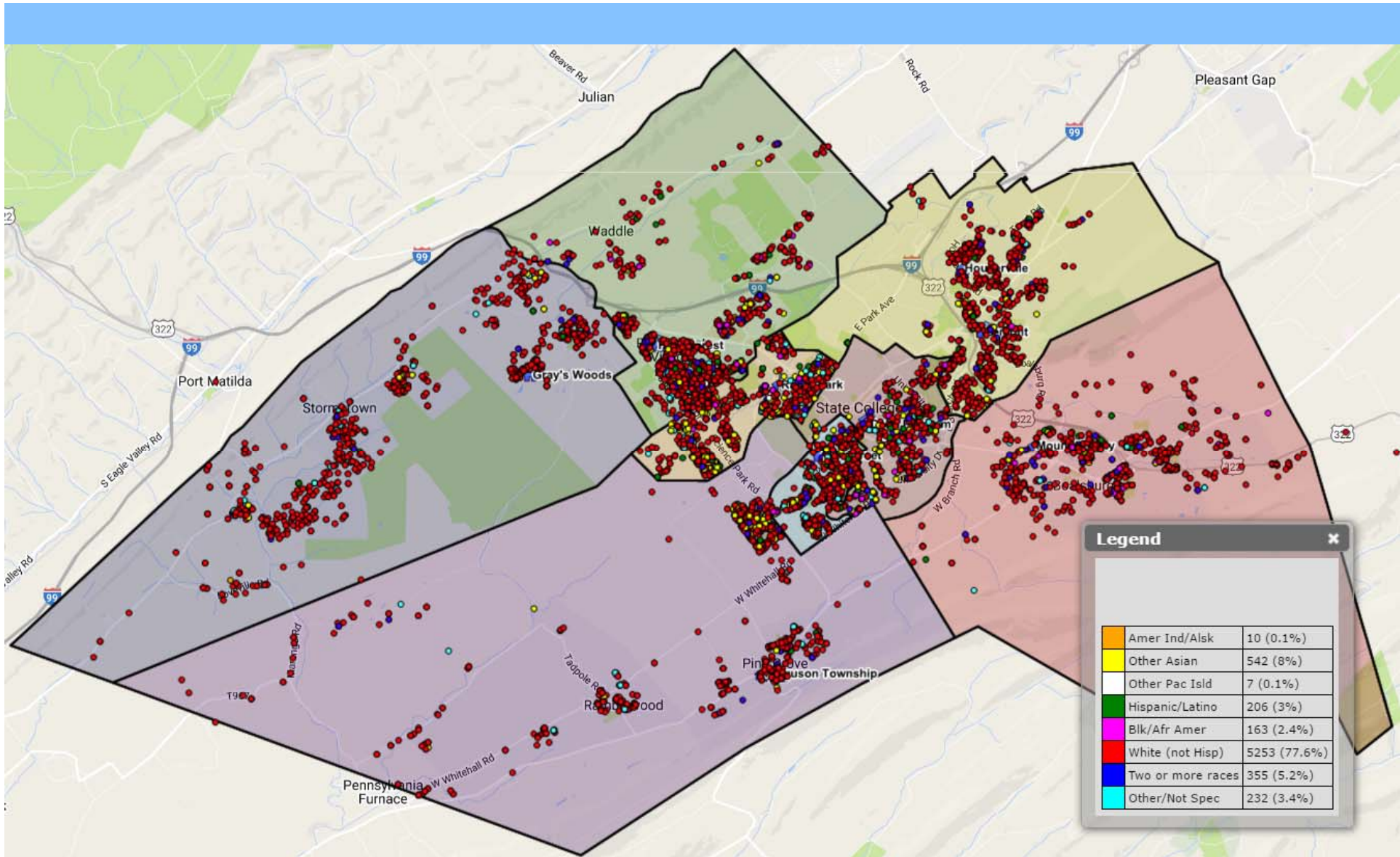


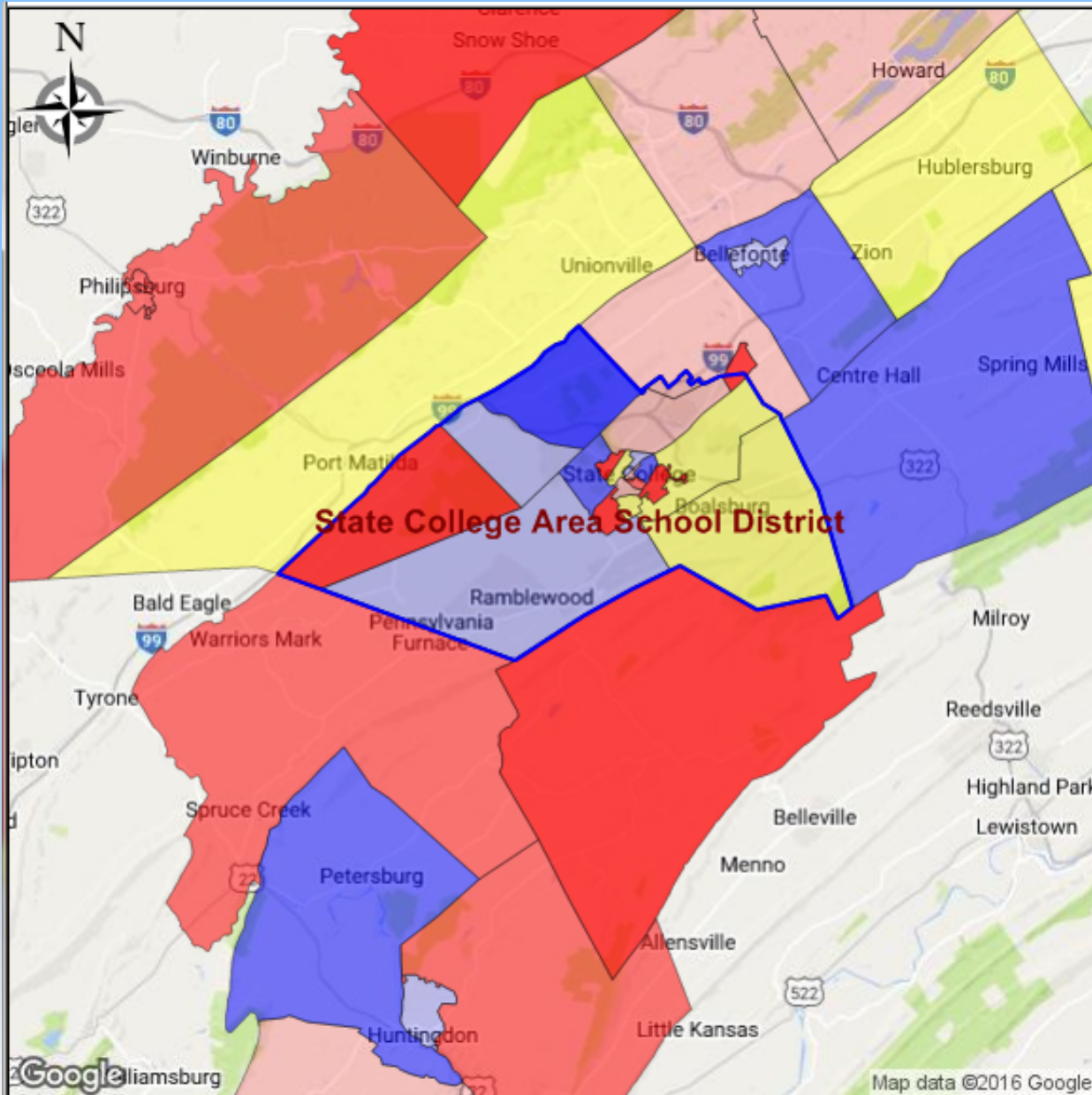
Racial/Ethnicity



Poverty

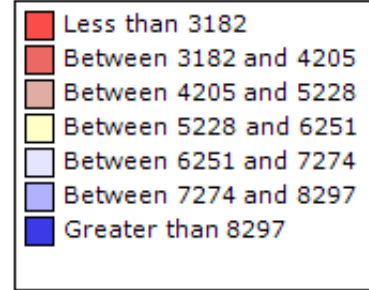




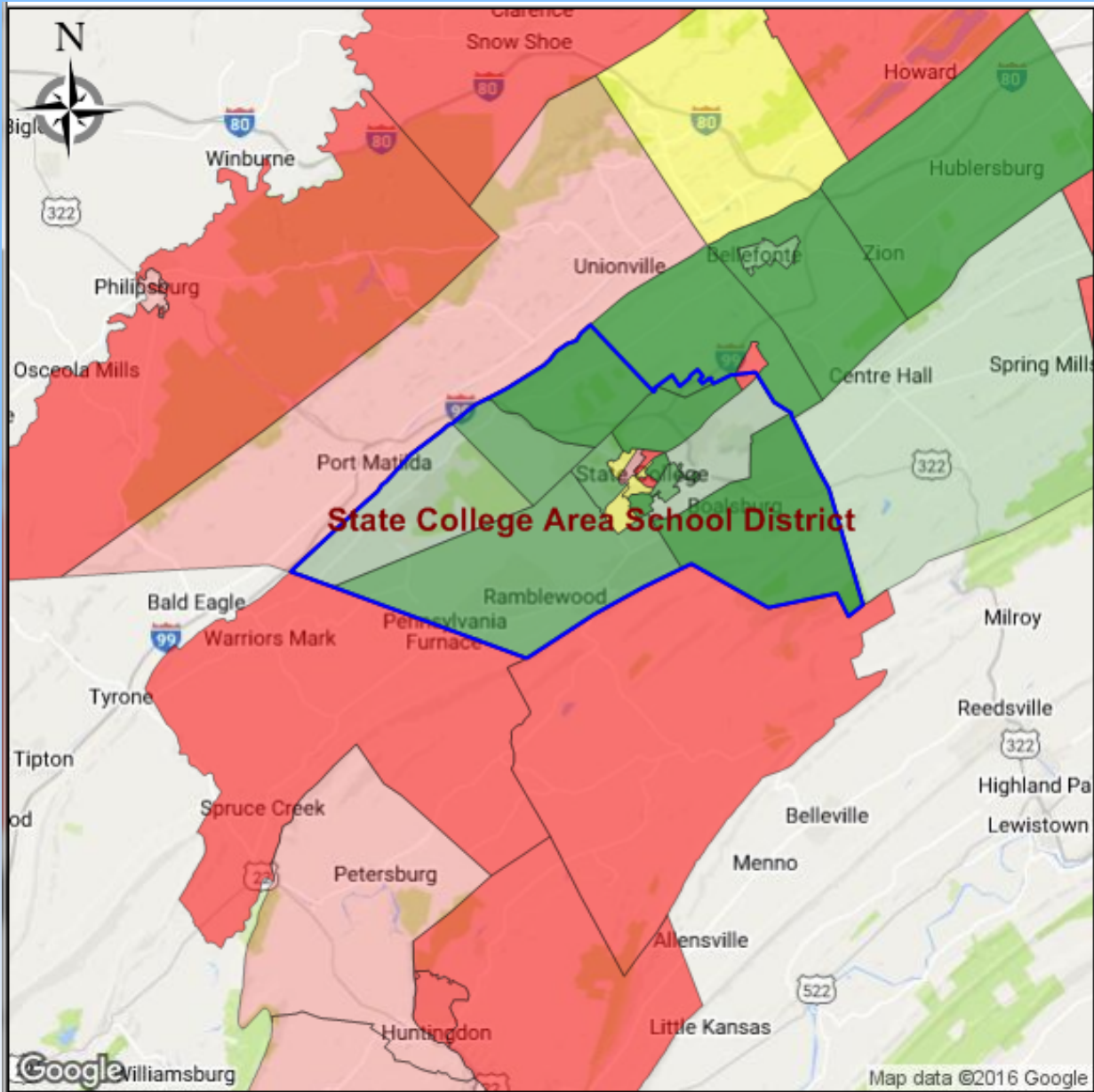


Population 2016

Geography Size: Census Tracts

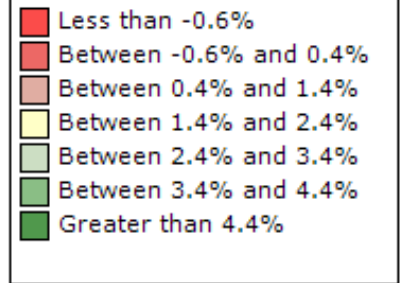


Source: US Census Bureau, Synergos Technologies Inc., Experian
DECISIONINSITE

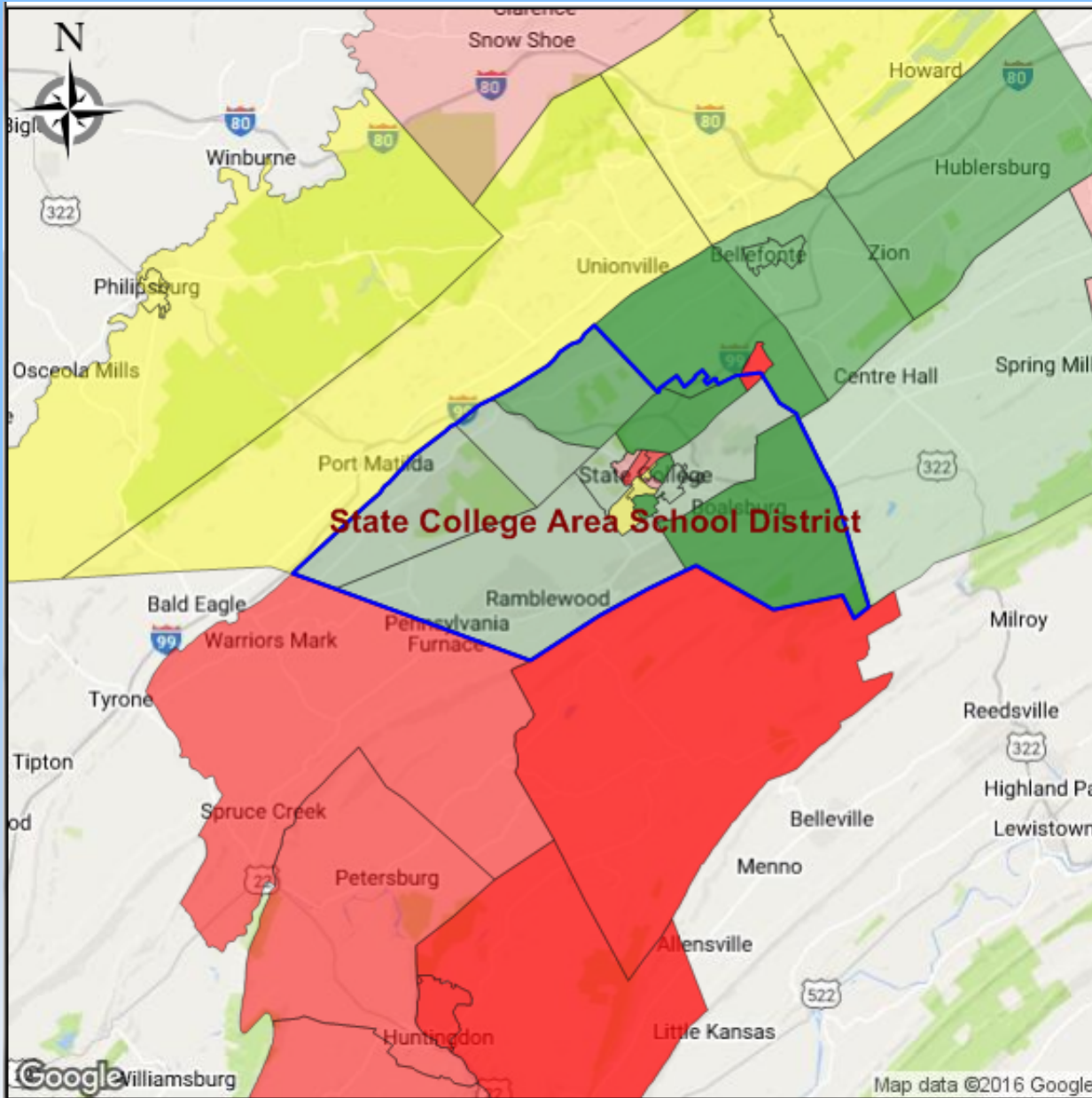


Population 2016-2021

Geography Size: Census Tracts



Source: US Census Bureau, Synergos Technologies Inc., Experian
DECISIONINSITE



Population 2021-2026

Geography Size: Census Tracts

- Less than 0%
- Between 0% and 1%
- Between 1% and 2%
- Between 2% and 3%
- Between 3% and 4%
- Between 4% and 5%
- Greater than 5%

Source: US Census Bureau, Synergos Technologies Inc., Experian
DECISIONINSITE

Historical Enrollment Analysis

Recent Historical Changes

4 Year History Change	
Kindergarten	108%
Gr K-5	100%
Gr 6-8	98%
Gr 9-12	97%
District	99%

Kindergarten Impact

Percent Change of Previous Year			
	2013	2014	2015
Kindergarten	94%	111%	103%
Grade 12 to K'tn	68%	73%	81%
Total K-12	99%	100%	100%

Cohort Aging

Average Cohort Change Past Three Years			
Cohort	Percent	+/-	Significant
K > 1	97%	----	
1 > 2	103%	++++	
2 > 3	104%	++++	
3 > 4	100%		
4 > 5	100%		
5 > 6	101%		
6 > 7	100%		
7 > 8	99%		
8 > 9	105%	++++	SSSS
9 > 10	106%	++++	SSSS
10 > 11	94%	----	SSSS
11 > 12	107%	++++	SSSS

Students First Enrolled

School Name	1	2	3	4	5	6	7	8	9	10	11	12
Corl Street	8	4	1	2	4	0	0	0	0	0	0	0
Easterly Parkway	16	9	17	9	13	0	0	0	0	0	0	0
Ferguson Township	7	5	4	1	4	0	0	0	0	0	0	0
Gray's Woods	5	8	5	4	3	0	0	0	0	0	0	0
Houserville	0	0	13	8	5	0	0	0	0	0	0	0
Lemont	13	3	0	0	0	0	0	0	0	0	0	0
Mount Nittany Elementary	7	7	5	6	5	0	0	0	0	0	0	0
Mount Nittany Middle	0	0	0	0	0	21	18	14	0	0	0	0
North High School	0	0	0	0	0	0	0	0	0	0	32	30
Park Forest Elementary	14	16	9	6	7	0	0	0	0	0	0	0
Park Forest Middle	0	0	0	0	0	27	21	21	0	0	0	0
Radio Park	7	10	7	10	9	0	0	0	0	0	0	0
South High School	0	0	0	0	0	0	0	0	69	39	0	0

Summary of Historical Enrollment Trends

- **Kindergarten:** Slight upward trend
- **Cohort Changes:** Unusually number of cohort changes in excess of 100%. Notable grades K to 1, 1 to 2, 8 to 9, 9 to 10 and 10 to 11.
- **District Enrollment:** Relatively stable enrollment between 2012 and 2015.

Enrollment Forecast

Method

- Primary factors that influence calculations
 - Kindergarten
 - Aging of grade cohorts through system
 - Impact of new residential development
 - Inter-district transfers
- Other factors that can influence
 - Private school enrollment
 - Housing market; foreclosures
 - Anomalous events such as fires, business closures

Study Differences

- Two projection studies are completed each year
 - Conservative suitable for budgeting
 - Moderate suitable for facilities planning
- Methodology Differences
 - For Kindergarten and for each grade level cohort change, the algorithm determines for each Studyblock, two mathematically supportable trends based on the 4 year history.
 - The lesser of the two trends is applied to the conservative study; the greater to the moderate.
 - Similar viable differentiations, applied similarly, are made for:
 - Incoming out of district transfers
 - Students generated by proposed residential development, if any

Conservative 5 Year Projection

Grade	2015	2016	2017	2018	2019	2020
K	467	463	479	493	501	504
1	480	498	495	513	526	533
2	455	501	521	520	536	544
3	510	472	519	541	538	551
4	462	518	479	527	549	544
5	520	464	519	483	530	550
6	471	529	469	526	491	536
7	525	475	533	476	532	496
8	512	521	472	531	474	530
9	529	541	554	503	567	504
10	591	557	571	585	530	590
11	536	561	531	544	556	513
12	555	559	584	553	567	573
Subtotals:	6613	6659	6726	6795	6897	6968
Pct Chg:	-0.1%	0.7%	1.0%	1.0%	1.5%	1.0%

Moderate 5 Year Projection

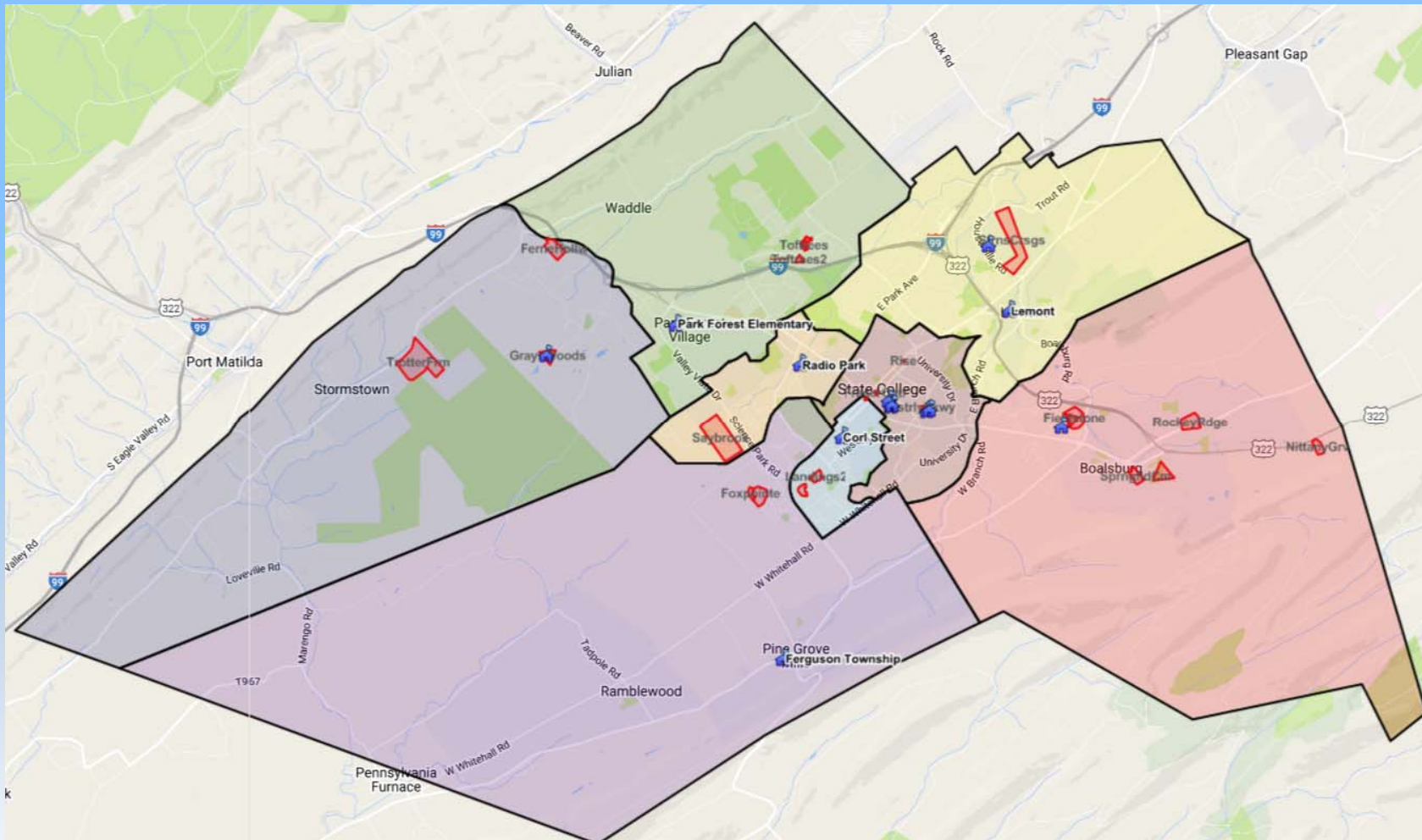
Grade	2015	2016	2017	2018	2019	2020
K	467	484	510	531	540	543
1	480	508	524	554	573	581
2	455	511	538	558	587	599
3	510	479	534	565	583	607
4	462	525	490	547	578	593
5	520	469	530	499	555	583
6	471	535	480	543	512	567
7	525	478	542	489	551	518
8	512	525	478	544	490	551
9	529	547	563	514	585	525
10	591	566	584	603	549	614
11	536	567	544	563	579	534
12	555	567	599	575	594	603
Subtotals:	6613	6761	6916	7085	7276	7418
Pct Chg:	-0.1%	2.2%	2.3%	2.4%	2.7%	2.0%

Proposed New Dwelling Units

New Dwelling Units Projected to be Occupied by Year (Moderate)										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Multi-family		132	186	168						
Attached	57	67	94	86	94	54	6	6	4	
Detached	115	66	79	53	76	28	3	3	3	3
Totals:	172	265	359	307	170	82	9	9	7	3

New Dwelling Units Projected to be Occupied by Year (Conservative)										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Multi-family		92	170	174	50					
Attached	40	55	77	66	94	75	47	5	5	4
Detached	84	67	67	48	50	44	35	22	6	5
Totals:	124	214	314	288	194	119	82	27	11	9

Dwelling Unit Projects



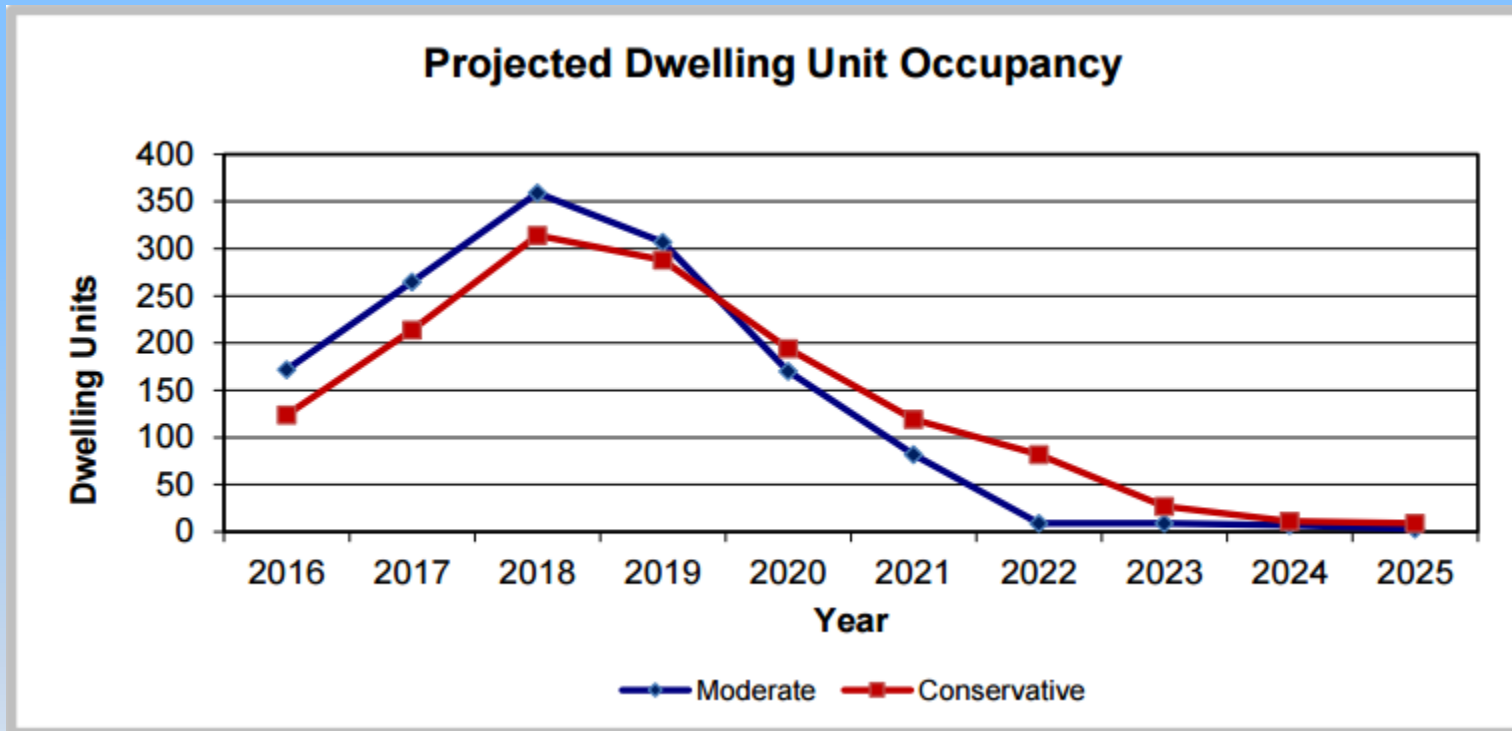
ProjectName	Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Collegiate Station	Single Unit Detached	1	1	0	0	0	0	0	0	0	0
Easterly Parkway Townhomes	Single Unit Attached	0	0	6	6	0	0	0	0	0	0
Ferne Hollow	Single Unit Detached	0	6	0	0	0	0	0	0	0	0
Fieldstone	Single Unit Detached	5	10	10	10	11	0	0	0	0	0
Foxpointe PRD, Hunter's Chase	Single Unit Detached	12	1	0	0	0	0	0	0	0	0
Fraser Centre	Single Unit Attached	0	26	0	0	0	0	0	0	0	0
Gray's Woods	Single Unit Attached	0	0	37	37	38	0	0	0	0	0
Gray's Woods	Single Unit Detached	0	0	18	18	20	0	0	0	0	0
Honors Crossing	Single Unit Attached	10	0	10	0	0	0	0	0	0	0
Honors Crossing	Single Unit Detached	11	0	11	0	0	0	0	0	0	0
Hunter's Chase	Single Unit Detached	1	5	8	0	0	0	0	0	0	0
Nittany Grove	Single Unit Detached	0	5	5	5	5	5	0	0	0	0
Rise	Multi-family	0	0	186	0	0	0	0	0	0	0
Rockey Ridge	Single Unit Detached	10	10	10	10	10	3	3	3	3	3
Saybrook	Single Unit Detached	3	0	1	0	0	0	0	0	0	0
Springfield Commons	Single Unit Attached	12	5	5	5	5	3	0	0	0	0
Stearns Crossing	Single Unit Detached	10	10	10	10	10	0	0	0	0	0
The Gates Townhomes	Single Unit Attached	27	30	30	32	0	0	0	0	0	0
The Landings	Single Unit Detached	43	1	0	0	0	0	0	0	0	0
The Landings 2	Single Unit Attached	0	0	0	0	45	45	0	0	0	0
The Landings 2	Single Unit Detached	0	0	0	0	20	20	0	0	0	0
The Metropolitan	Multi-family	0	132	0	0	0	0	0	0	0	0
Toftrees	Single Unit Detached	16	15	6	0	0	0	0	0	0	0
Toftrees - Grove Apts Phase 2	Multi-family	0	0	0	168	0	0	0	0	0	0
Trotter Farm	Single Unit Detached	3	2	0	0	0	0	0	0	0	0
Village at Canterbury	Single Unit Attached	8	6	6	6	6	6	6	6	4	0
	Multi-family:	0	132	186	168	0	0	0	0	0	0
	Single Unit Attached:	57	67	94	86	94	54	6	6	4	0
	Single Unit Detached:	115	66	79	53	76	28	3	3	3	3
	Total:	172	265	359	307	170	82	9	9	7	3

Proposed Dwelling Units

Type by Year

Type	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
Multi-family:	0	132	186	168	0	0	0	0	0	0	486
Single Unit Attached:	57	67	94	86	94	54	6	6	4	0	468
Single Unit Detached:	115	66	79	53	76	28	3	3	3	3	429
Total:	172	265	359	307	170	82	9	9	7	3	1383

Projected Dwelling Unit Occupancy

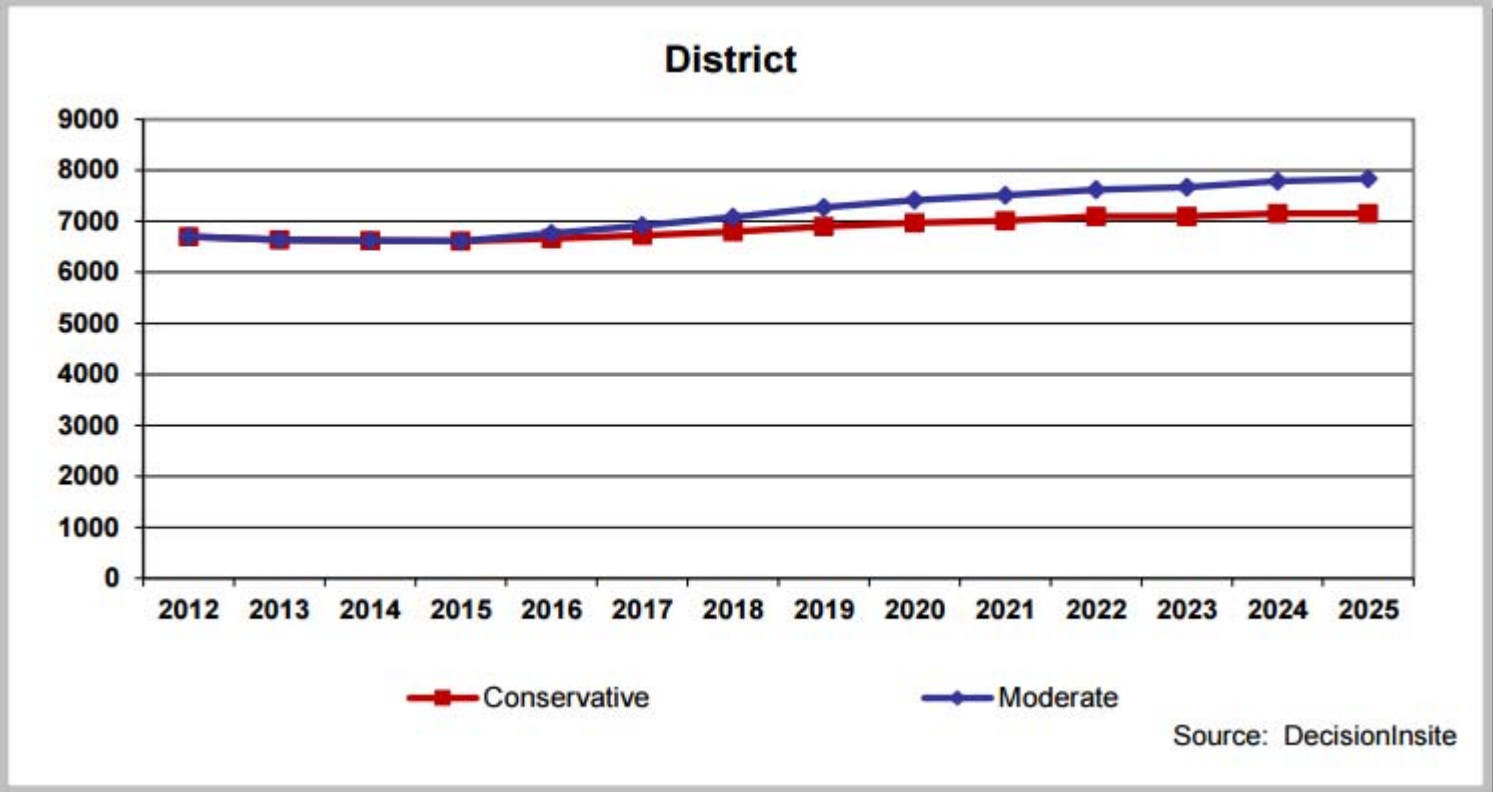


Students Generated by New Housing

Moderate										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Aggregate	87	178	298	402	495	550	576	600	621	639
Annual		93	128	118	114	80	54	54	54	53

Conservative										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Aggregate	63	142	245	338	421	488	542	577	600	621
Annual		81	109	105	100	88	80	63	55	55

District-wide Projections



Conservative and Moderate Compared 5 Year

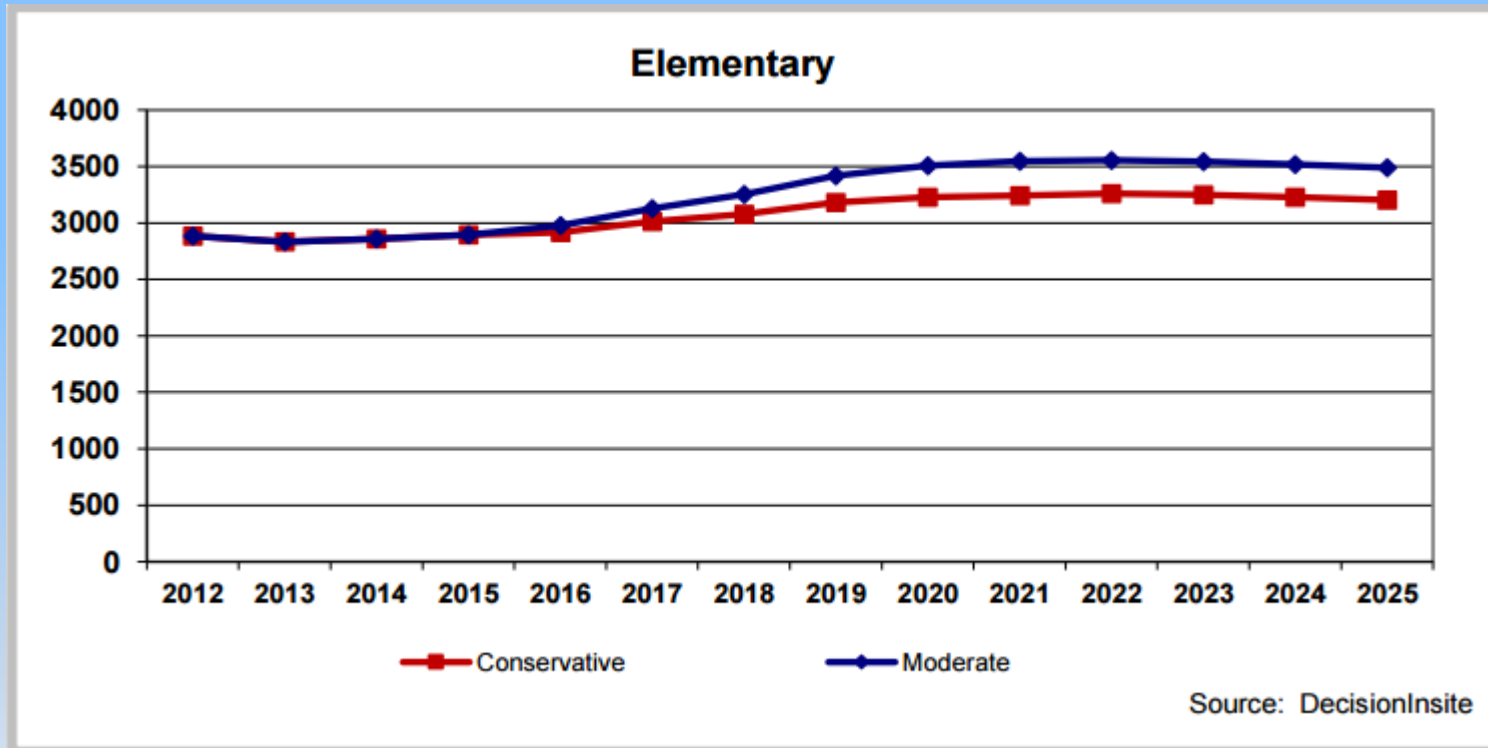
Change by Level	Conservative	Moderate
Kindergarten Only	504	543
Change	108%	116%
Gr K-5	3226	3506
Change	111%	121%
Gr 6-8	1562	1636
Change	104%	108%
Gr 9-12	2180	2276
Change	99%	103%
District	6968	7418
Change	105%	112%

Composite K-12 Forecast

(conservative study)

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	433	409	453	467	463	479	493	501	504	504	503	500	496	492
1	460	466	428	480	498	495	513	526	533	533	532	529	524	520
2	497	456	489	455	501	521	520	536	544	549	548	544	540	536
3	488	520	467	510	472	519	541	538	551	557	561	557	553	548
4	488	489	532	462	518	479	527	549	544	555	560	562	557	553
5	517	492	491	520	464	519	483	530	550	545	555	558	559	555
6	505	530	518	471	529	469	526	491	536	556	549	557	560	561
7	520	506	522	525	475	533	476	532	496	540	559	551	559	561
8	520	509	504	512	521	472	531	474	530	494	537	553	545	553
9	530	543	545	529	541	554	503	567	504	561	522	568	583	575
10	575	568	562	591	557	571	585	530	590	524	581	539	586	601
11	561	535	535	536	561	531	544	556	513	568	504	558	518	562
12	604	618	575	555	559	584	553	567	573	528	584	518	573	533
Subtotals:	6698	6641	6621	6613	6659	6726	6795	6897	6968	7014	7095	7094	7153	7150
Pct Chg:		-0.9%	-0.3%	-0.1%	0.7%	1%	1%	1.5%	1%	0.7%	1.2%	0%	0.8%	0%
SDC:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals:	6698	6641	6621	6613	6659	6726	6795	6897	6968	7014	7095	7094	7153	7150

Elementary



Enrollment Change by School

School	Five Year Percent Change	Ten Year Percent Change
Park Forest	32%	28%
Corl Street	27%	34%
Mount Nittany	17%	23%
Ferguson Township	-13%	-17%
Gray's Woods	13%	12%

General Observations

- Absent residential development, the Kindergarten and K-12 forecast is flat in the conservative study.
- Absent residential development, the Kindergarten and K-12 forecast in the moderate study shows some increase driven by significant cohort changes at many grade levels.
- The aggregate impact of 600+ students from new residential development accounts for growth K-12 beyond what otherwise would be a rather flat forecast.

Corl Street

SttClIlg16Mod

Corl Street

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	29	37	42	35	42	46	47	47	49	50	50	49	49	49
1	46	28	42	47	41	48	51	52	54	55	55	55	54	54
2	37	49	32	40	51	44	50	52	55	57	57	56	56	55
3	52	38	50	32	44	56	46	52	56	59	59	59	58	58
4	37	51	36	45	32	43	53	43	52	55	57	57	56	56
5	44	40	50	35	48	35	45	54	46	54	57	58	58	57
Totals:	245	243	252	234	258	272	292	300	312	330	335	334	331	329
Pct Chg:		-0.8%	3.7%	-7.1%	10.3%	5.4%	7.4%	2.7%	4%	5.8%	1.5%	-0.3%	-0.9%	-0.6%
Capacity:	276	276	276	276	276	276	276	276	276	276	276	276	276	276
Open Seats:	31	33	24	42	18	4	-16	-24	-36	-54	-59	-58	-55	-53

Easterly Parkway

SttCllg16Mod

Easterly Parkway

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	48	47	56	48	52	54	59	59	58	58	57	57	56	56
1	53	46	52	66	55	60	66	67	67	67	66	65	65	64
2	64	52	46	52	69	59	67	69	69	70	69	68	68	67
3	56	70	61	56	57	75	66	71	72	73	73	72	71	71
4	64	58	67	55	54	55	75	64	69	70	71	71	70	70
5	51	68	59	69	58	58	61	80	66	72	73	74	74	73
Totals:	336	341	341	346	345	361	394	410	401	410	409	407	404	401
Pct Chg:		1.5%	0%	1.5%	-0.3%	4.6%	9.1%	4.1%	-2.2%	2.2%	-0.2%	-0.5%	-0.7%	-0.7%
Capacity:	414	414	414	414	414	414	414	414	414	414	414	414	414	414
Open Seats:	78	73	73	68	69	53	20	4	13	4	5	7	10	13

Ferguson Township

SttClIlg16Mod

Ferguson Township

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	50	55	62	50	54	55	55	55	55	54	54	53	53	52
1	61	57	62	61	54	58	59	59	59	59	58	57	57	56
2	68	58	56	69	64	56	60	60	60	60	60	59	58	58
3	58	70	61	58	72	66	58	62	61	61	61	61	60	59
4	54	57	76	55	59	72	66	58	62	62	61	61	61	60
5	63	55	56	76	55	58	71	66	57	61	61	61	61	60
Totals:	354	352	373	369	358	365	369	360	354	357	355	352	350	345
Pct Chg:		-0.6%	6%	-1.1%	-3%	2%	1.1%	-2.4%	-1.7%	0.8%	-0.6%	-0.8%	-0.6%	-1.4%
Capacity:	414	414	414	414	414	414	414	414	414	414	414	414	414	414
Open Seats:	60	62	41	45	56	49	45	54	60	57	59	62	64	69

Gray's Woods

SttCllg16Mod

Gray's Woods

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	57	59	58	66	66	68	71	73	75	74	74	73	72	72
1	57	64	62	62	69	68	73	76	78	77	77	76	75	75
2	65	62	72	69	67	74	75	80	82	82	81	80	80	79
3	59	65	60	78	72	69	79	80	84	84	84	83	82	82
4	63	66	68	63	82	76	75	85	85	87	87	87	86	85
5	71	66	67	69	65	85	80	79	88	87	88	88	88	88
Totals:	372	382	387	407	421	440	453	473	492	491	491	487	483	481
Pct Chg:		2.7%	1.3%	5.2%	3.4%	4.5%	3%	4.4%	4%	-0.2%	0%	-0.8%	-0.8%	-0.4%
Capacity:	483	483	483	483	483	483	483	483	483	483	483	483	483	483
Open Seats:	111	101	96	76	62	43	30	10	-9	-8	-8	-4	0	2

Houserville

SttClIlg16Mod

Houserville

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
3	57	69	46	63	70	53	68	65	66	66	66	65	65	64
4	58	55	73	51	65	72	54	69	67	66	67	67	66	66
5	69	60	55	70	51	64	71	54	69	66	65	66	66	65
Totals:	184	184	174	184	186	189	193	188	202	198	198	198	197	195
Pct Chg:		0%	-5.4%	5.7%	1.1%	1.6%	2.1%	-2.6%	7.4%	-2%	0%	0%	-0.5%	-1%
Capacity:	207	207	207	207	207	207	207	207	207	207	207	207	207	207
Open Seats:	23	23	33	23	21	18	14	19	5	9	9	9	10	12

Lemont

SttClIlg16Mod

Lemont

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	56	59	42	56	54	55	56	57	57	56	56	55	55	54
1	45	58	65	50	63	61	62	63	64	63	62	62	61	61
2	73	42	57	67	50	63	61	62	63	63	62	62	61	61
Totals:	174	159	164	173	167	179	179	182	184	182	180	179	177	176
Pct Chg:		-8.6%	3.1%	5.5%	-3.5%	7.2%	0%	1.7%	1.1%	-1.1%	-1.1%	-0.6%	-1.1%	-0.6%
Capacity:	207	207	207	207	207	207	207	207	207	207	207	207	207	207
Open Seats:	33	48	43	34	40	28	28	25	23	25	27	28	30	31

Mount Nittany

SttCllg16Mod

Mount Nittany Elementary

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	60	43	50	50	58	64	68	71	73	73	73	73	73	72
1	58	70	37	55	55	64	70	74	77	77	77	77	76	76
2	56	60	70	41	61	62	70	77	80	81	80	80	80	79
3	49	64	52	71	45	64	65	74	79	81	81	81	81	80
4	68	51	63	54	76	48	68	69	77	81	82	83	83	82
5	63	63	52	62	56	78	51	70	71	78	82	83	83	83
Totals:	354	351	324	333	351	380	392	435	457	471	475	477	476	472
Pct Chg:		-0.8%	-7.7%	2.8%	5.4%	8.3%	3.2%	11%	5.1%	3.1%	0.8%	0.4%	-0.2%	-0.8%
Capacity:	414	414	414	414	414	414	414	414	414	414	414	414	414	414
Open Seats:	60	63	90	81	63	34	22	-21	-43	-57	-61	-63	-62	-58

Park Forest

SttCllg16Mod

Park Forest Elementary

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	84	57	77	97	89	94	99	102	101	100	99	98	97	97
1	77	91	59	81	107	97	103	109	109	108	107	106	105	104
2	65	72	99	69	89	115	105	113	114	114	113	112	111	110
3	89	78	71	96	73	91	119	110	115	116	116	115	114	113
4	82	90	82	74	100	75	95	124	112	117	118	118	117	116
5	89	85	85	72	73	97	74	93	121	109	114	115	115	114
Totals:	486	473	473	489	531	569	595	651	672	664	667	664	659	654
Pct Chg:		-2.7%	0%	3.4%	8.6%	7.2%	4.6%	9.4%	3.2%	-1.2%	0.5%	-0.4%	-0.8%	-0.8%
Capacity:	529	529	529	529	529	529	529	529	529	529	529	529	529	529
Open Seats:	43	56	56	40	-2	-40	-66	-122	-143	-135	-138	-135	-130	-125

Radio Park

SttCllg16Mod

Radio Park

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	49	52	66	65	70	74	76	76	75	75	74	74	73	72
1	63	52	49	58	63	68	71	73	74	73	72	72	71	70
2	69	61	57	48	61	66	70	74	76	76	75	74	74	73
3	68	66	66	56	48	60	65	69	74	75	75	74	74	73
4	62	61	67	65	57	48	60	66	70	74	76	76	75	74
5	67	55	67	67	64	56	48	59	65	69	73	75	75	74
Totals:	378	347	372	359	363	372	390	417	434	442	445	445	442	436
Pct Chg:		-8.2%	7.2%	-3.5%	1.1%	2.5%	4.8%	6.9%	4.1%	1.8%	0.7%	0%	-0.7%	-1.4%
Capacity:	414	414	414	414	414	414	414	414	414	414	414	414	414	414
Open Seats:	36	67	42	55	51	42	24	-3	-20	-28	-31	-31	-28	-22

District-wide K-5

SttCllg16Mod

Totals

Grade	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
K	433	409	453	467	485	510	531	540	543	540	537	532	528	524
1	460	466	428	480	507	524	555	573	582	579	574	570	564	560
2	497	456	489	455	512	539	558	587	599	603	597	591	588	582
3	488	520	467	510	481	534	566	583	607	615	615	610	605	600
4	488	489	532	462	525	489	546	578	594	612	619	620	614	609
5	517	492	491	520	470	531	501	555	583	596	613	620	620	614
Totals:	2883	2832	2860	2894	2980	3127	3257	3416	3508	3545	3555	3543	3519	3489
Pct Chg:		-1.8%	1%	1.2%	3%	4.9%	4.2%	4.9%	2.7%	1.1%	0.3%	-0.3%	-0.7%	-0.9%
Capacity:	3358	3358	3358	3358	3358	3358	3358	3358	3358	3358	3358	3358	3358	3358
Open Seats:	475	526	498	464	378	231	101	-58	-150	-187	-197	-185	-161	-131

Conservative Study Comparison

Totals:	2883	2832	2860	2894	2920	3012	3077	3180	3224	3224	3263	3250	3220	3204
Open Seats:					438	346	281	178	134	114	95	108	128	154

Comparison to Conservative Study

Elementary K-5 Fall 2016 Enrollment			
	Actual	Projctd	Diff
K	479	463	-16
1	479	498	19
2	456	501	45
3	507	472	-35
4	466	518	52
5	518	464	-54
Total:	2905	2916	11

State College Area School District

Enrollment Forecast Report 2016

Presented by

