

# **Elementary Capacity Task Force**

## **Community Workshop on Elementary Enrollment Trends and Forecasts**

**December 5, 2007  
6:30pm – 8:30pm**



# Agenda

- I. Define the problem**
- II. Review categories of solutions to address the problem**
- III. Review framework to evaluate solutions**
- IV. Present enrollment analysis**
- v. Present school capacity analysis**

# Define the Problem

**There is a mismatch between elementary enrollment forecasts and current school capacity.**

## **Forecasts show:**

- **Two school areas – Ruby Bridges and Edison/Otis – are expected to increase in enrollment while their facilities are currently close to or at capacity.**
- **Remaining school areas are expected to decline in enrollment while their facilities are currently under capacity.**

# Categories of Solutions

**There is a mismatch between elementary enrollment forecasts and current school capacity.**

## **Types of Solutions:**

- **Change boundaries**
- **Create magnet programs**
- **Divert overflow**
- **Increase capacity**

# Framework to Evaluate Solutions

**There is a mismatch between elementary enrollment forecasts and current school capacity.**

## **Types of Impact:**

- **Facility impact**
- **Financial impact**
- **Program impact**

# Enrollment Analyses



**Shelley Lapkoff, Ph.D.**

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**Lapkoff & Gobalet Demographic Research, Inc.**

**[www.Demographers.com](http://www.Demographers.com)**

## **5 Considerations when Defining “Enrollment”**

### **1. We use attendance area residents, not enrollments**

- **For planning purposes, we analyze AUSD students living in each attendance area, regardless of which AUSD school they attend.**
- **Some students do not attend their neighborhood school but transfer to another area, either because of choice or because their neighborhood school was full. We count these students where they live, not where they attend school.**
- **Children not attending AUSD schools (such as private school students) are excluded.**

### **2. Special Education (SDC) students are analyzed in a separate analysis, and are excluded here**

- **We exclude SDC students from our neighborhood analysis because SDC students require different facilities and may not attend their neighborhood schools. Our purpose here is to compare regular education students with regular education facilities.**

# Defining “Enrollment” (continued)

## 3. Students living on the attendance boundary line

- Under current District policy, students who live on some of the boundaries between two schools have a choice where to attend. For example, students living on Central Avenue can choose to attend either Edison or Otis. We account for typical choices.

## 4. Inter-district Transfers: students living outside Alameda

- About 150 K-5 students attend AUSD who live outside the District’s boundaries. District administrators have discretion regarding how many students to admit and where they attend school.



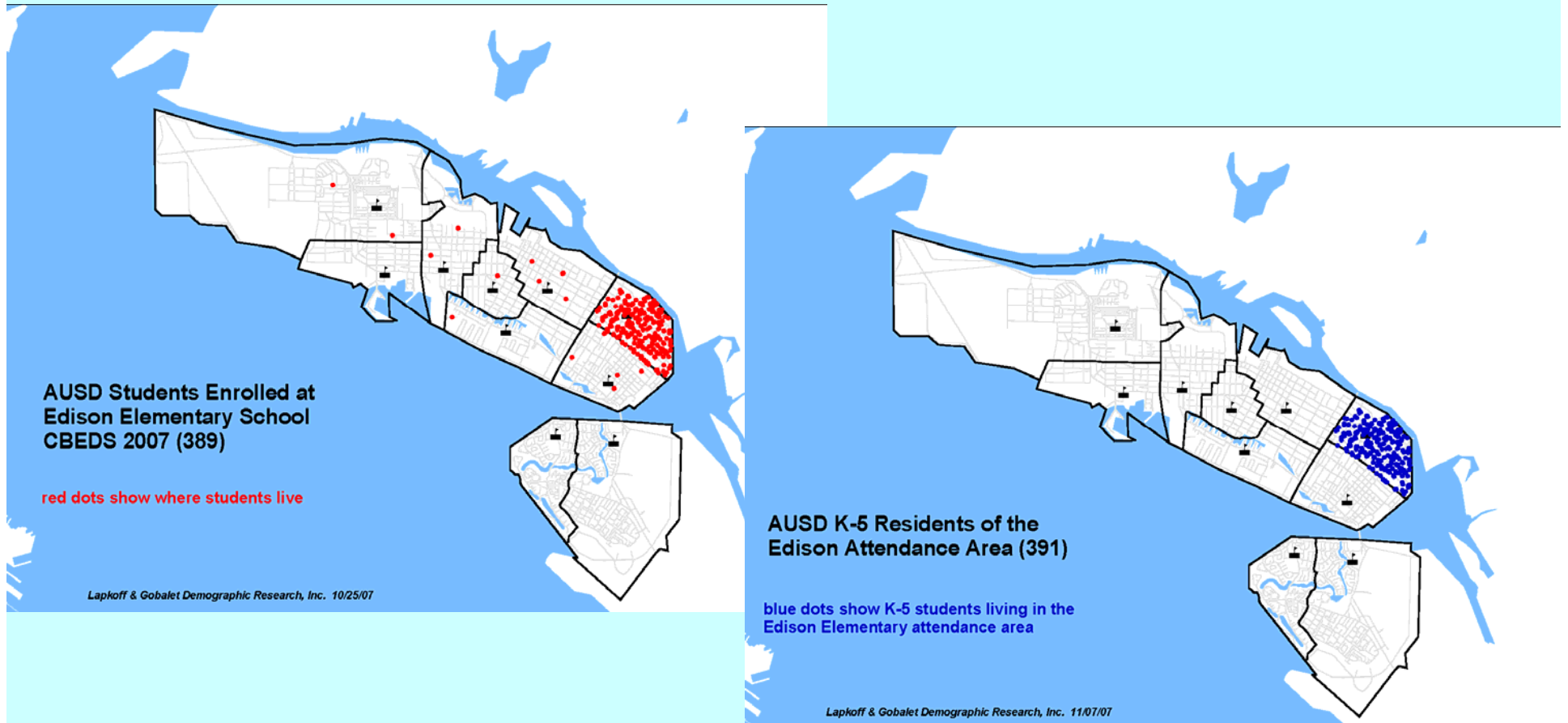
# Defining “Enrollment” (continued)

## 5. Forecasts versus current student body

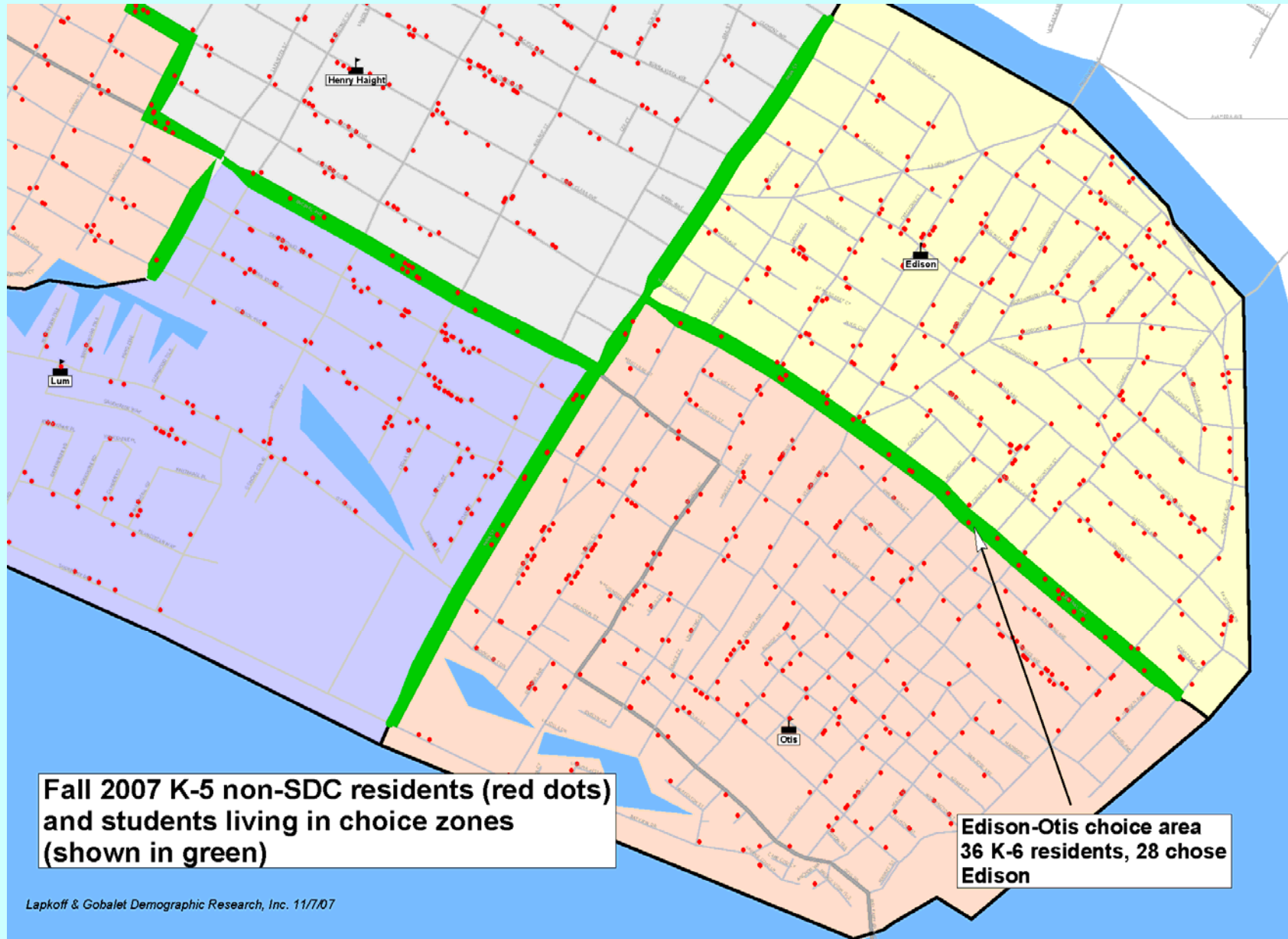
- **The number of future residents of some attendance areas may differ from current residents because of new housing construction and turnover in houses and apartments.**
- **We have forecasted residents of each elementary attendance area. Note, however, that because the population base for each area is so small, these forecasts will not match actual future enrollments due to random variation and unforeseen factors. The forecasts serve only as a guide, for planning purposes.**

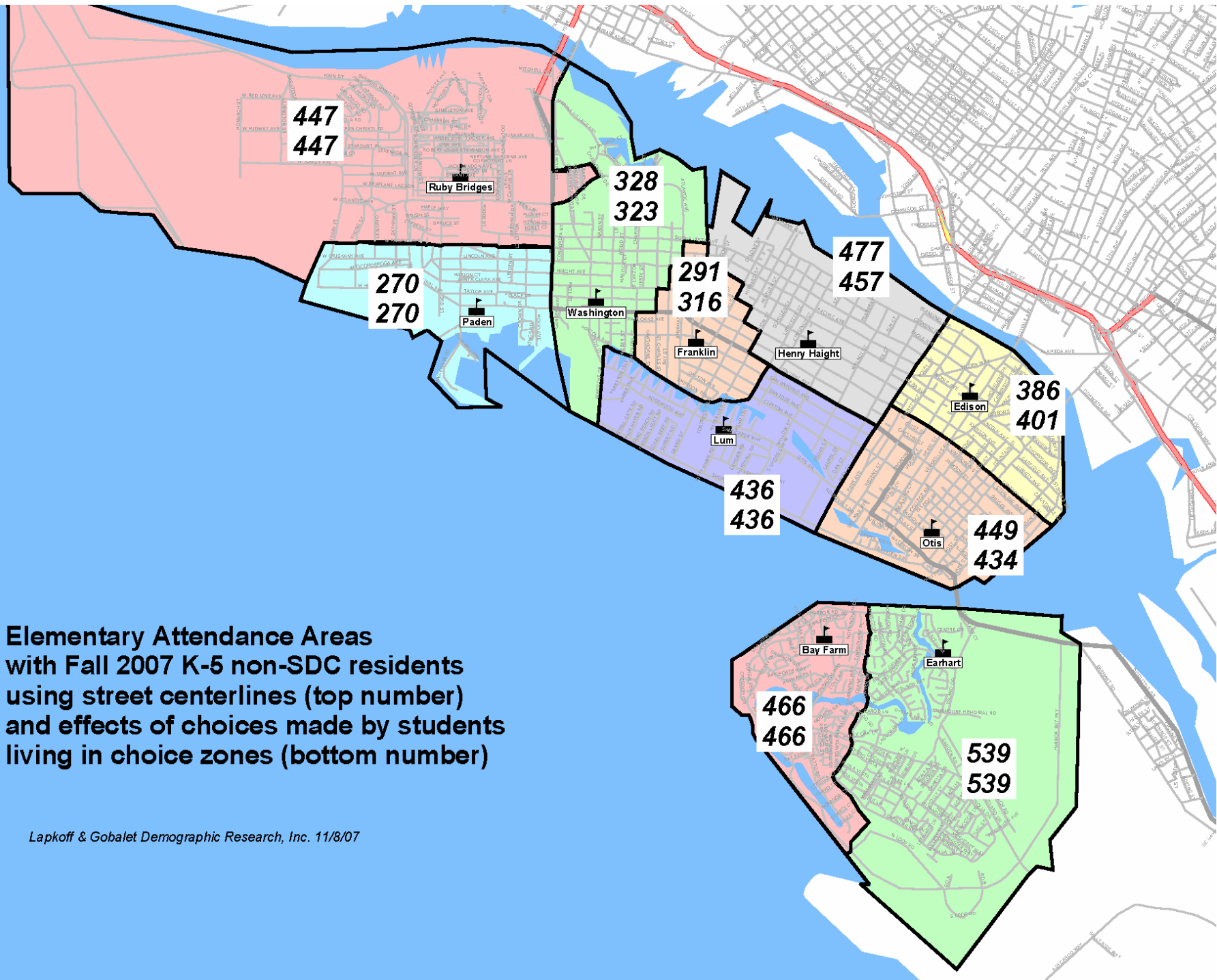
## Our Enrollment Analyses Focus on Residents

- We have geocoded (electronically pin-mapped) AUSD students' residences from 1997 through 2007, and use this information to understand enrollment trends, overall and by subarea.
- We compare where students are enrolled with where they live.



# Understanding AUSD enrollment patterns is complicated by a variety of factors, including the need to consider the choice zone students:





**Elementary Attendance Areas  
with Fall 2007 K-5 non-SDC residents  
using street centerlines (top number)  
and effects of choices made by students  
living in choice zones (bottom number)**

*Lapkoff & Gobalet Demographic Research, Inc. 11/8/07*

# Where students enroll versus where they live:

K to 5 Regular Education Students Only, Fall 2007											
School Attending											Total Residents
Bay Farm	Earhart	Edison	Franklin	Haight	Lum	Otis	Paden	Ruby Bridges	Washington		
Bay Farm	440	26									466
Earhart	26	489		1	3	11	4	3	2		539
Edison	6	5	341		3	2	10	2			369
Franklin	1	2	1	190	7	1	3	9	5	20	239
Haight	8	10	4	6	341	26	7	14	12	9	437
Lum	5	3		8	15	350	4	6	6	7	404
Otis	16	10	6		1	24	341	11	5	2	416
Paden Elementary					5	4		231	18	7	265
Ruby Bridges	1	4			4	8	4	33	372	20	446
Washington	3	4	1	8	17	15	1	16	32	215	312
<b>Choice Areas</b>											
Edison/Otis			28		1	1	6				36
Franklin/Haight				41	6	3	1	2	3	3	59
Franklin/Lum				1							1
Franklin/Washington				29						9	38
Haight/Lum					6	16					22
Haight/Otis							2	1			3
Lum/Otis					3	4	6		1	1	15
Lum/Washington		1			1	11					13
Paden/Washington								5		1	6
RubyBridges/Washington					1						1
<b>Not AUSD</b>	5	12	1	2	13	14	5	11	44	42	149
<b>Total Enrollees</b>	<b>511</b>	<b>566</b>	<b>382</b>	<b>286</b>	<b>427</b>	<b>490</b>	<b>394</b>	<b>344</b>	<b>500</b>	<b>336</b>	<b>4,236</b>
<b>6th Grade Students Attending Bay Farm Elementary, Fall 2007</b>											
Bay Farm	28										
Earhart	1										
Edison	1										
Otis	1										
Not AUSD	1										
Total	32										
<b>All 6th Grade Students Living in Bay Farm Elementary Attendance Area, Fall 2007</b>											
School Attending											
	ACL	Bay Farm	Chipman	Lincoln	Wood	Total					
Bay Farm Elem 6th Graders	1	28	63	1	1	94					

## **Summary - Enrollments Used to Compare to Facility Capacity**

- **Use residents of each area, not actual school enrollments**
- **Use only regular education students**
- **Adjust for typical choices of students on the boundary of attendance areas**

# Forecasting

- **Forecast by category of student**
  - **Fall 2007 CBEDS non-SDC student residents**
  - **Students living on boundaries of the attendance areas**
  - **Expected students from future housing**
    - **Bayport +**
    - **Summer House Apartments**
  - **Growth from housing turnover in houses and apartments**
  - **Inter-district transfer students**
- **Forecast results**
- **Forecast methodology**
- **Evaluation of last year's forecast**

# Summary of Current & Forecasted Attendance Area Residents

	Current Residents (center of street for choice areas)	Adjustment for Choice students	Estimated Students from New Housing within the next 5 years	Expected Growth in Existing Housing			Intra-district Transfer Students	Out-of-District Students	Total Expected Students		
				Low	Medium	High			Low	Medium	High
Bay Farm	466			-27	3	54	At the District's discretion	At the District's discretion	439	469	520
Earhart	539			-57	-4	38			482	535	577
Edison	386	15		40	73	105			441	474	506
Franklin	291	25		-18	13	46			298	329	362
Haight	477	-20		-110	-18	11			347	439	468
Lum	436			-10	32	69			426	468	505
Otis	449	-15		-3	25	60			431	459	494
Paden	270			0	22	43			270	292	313
Ruby Bridges	447		90	-15	23	60			522	560	597
Washington	328	-5		-76	-24	16			247	299	339
Out-of-District	149										
<b>Total</b>	<b>4238</b>	<b>0</b>							<b>0</b>	<b>149</b>	<b>3903</b>

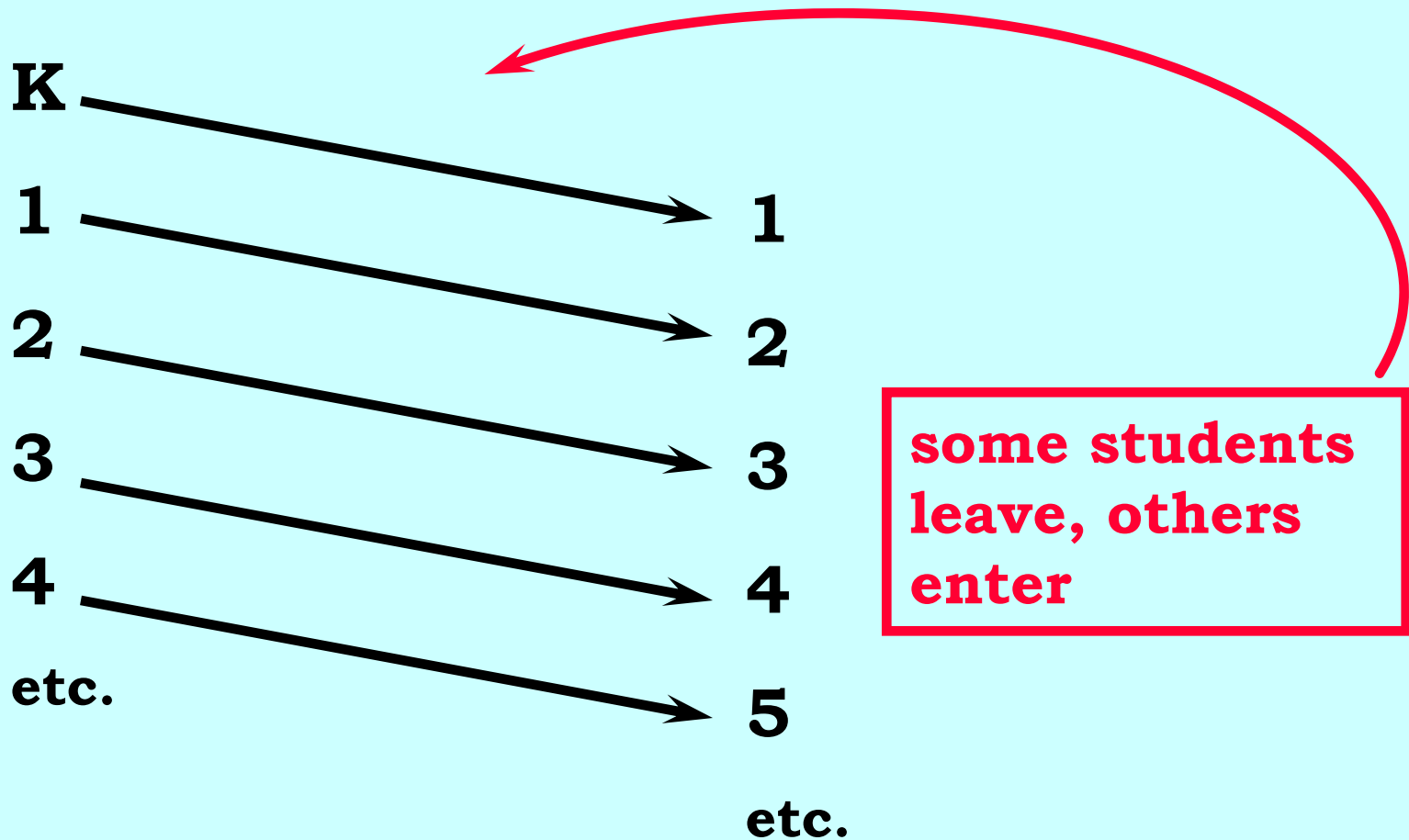


# Forecast Methodology

- **Cohort survival methodology used**
  - **CBEDS 2007 residents are “aged” and progressed to the next grade**
  - **Grade progression adjustments are applied**
    - **We studied historical grade progressions to decide what to use in the forecast model**
  - **New kindergarten classes are added**
    - **Usually based on historical trends in the area**
    - **The number of Alameda births has not changed much in the last several years (birth data for small areas like school attendance areas are not available)**
- **Add students from new housing**
- **Add students from outside the District**
- **Examples: Edison, Haight, and Ruby Bridges**

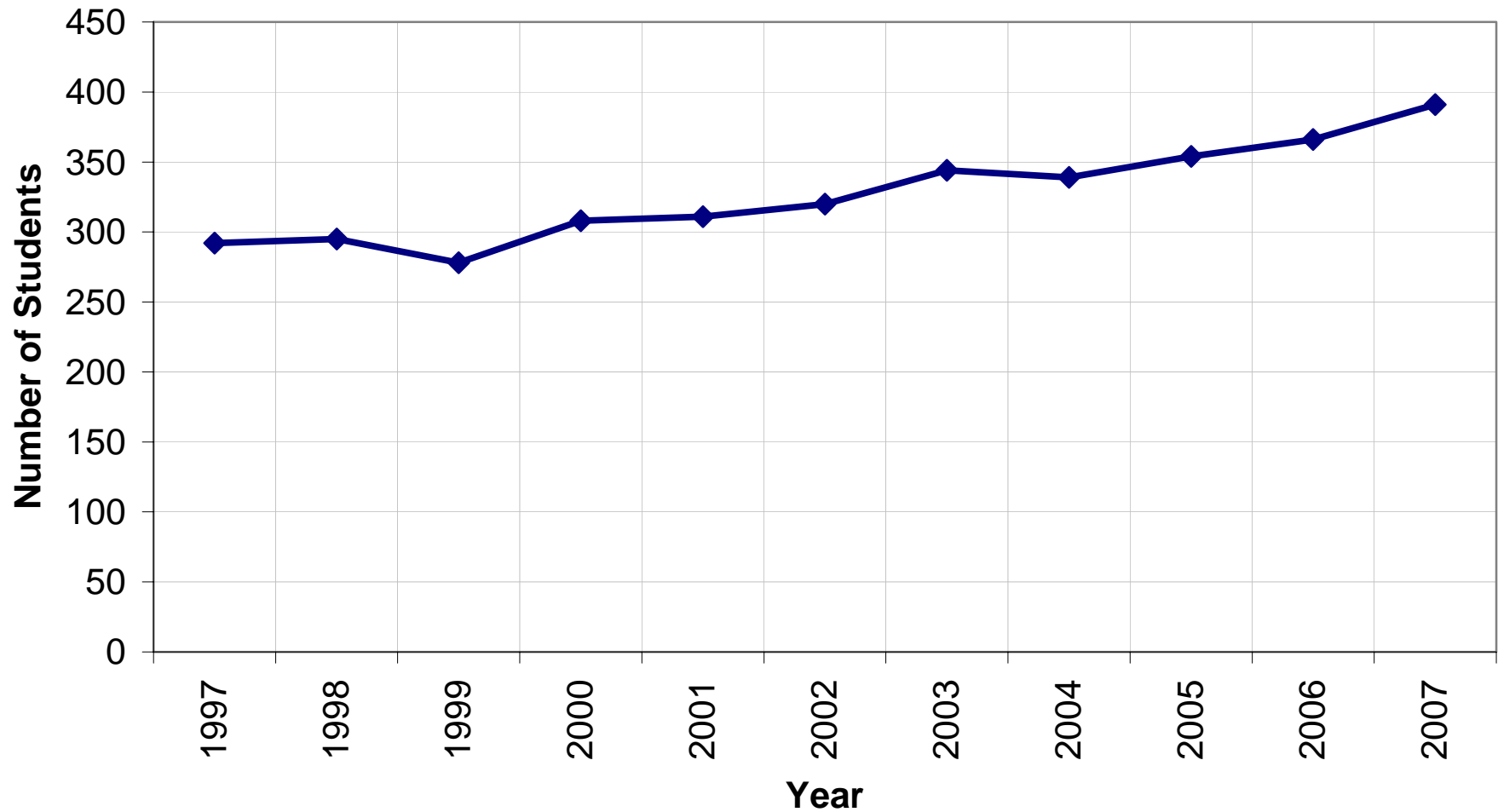
## Grade Progressions

**Start with today's students by grade, then advance the students one grade**



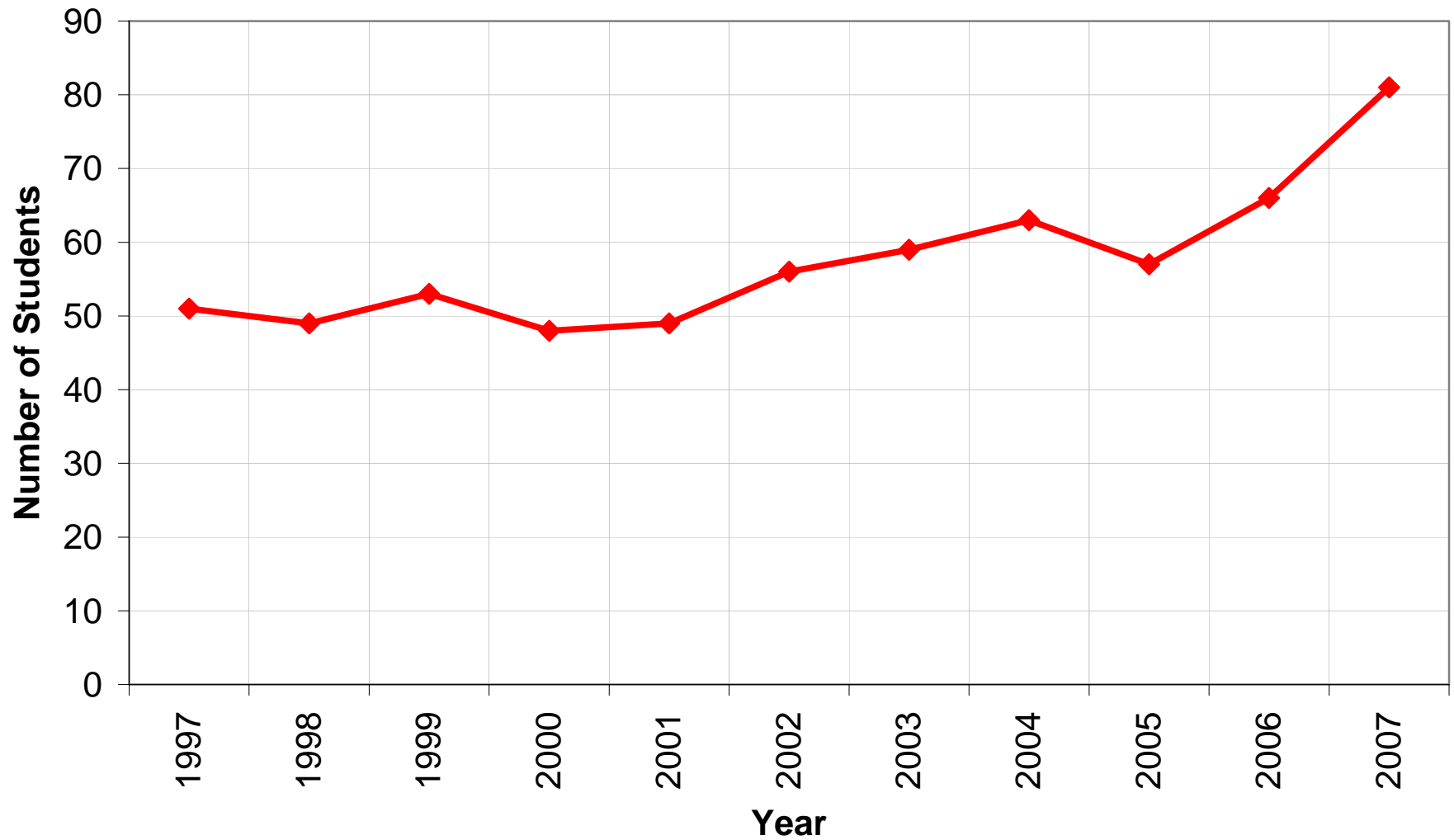
## Edison Attendance Area Example

### Edison Attendance Area K-5 Resident History, 1997-2007



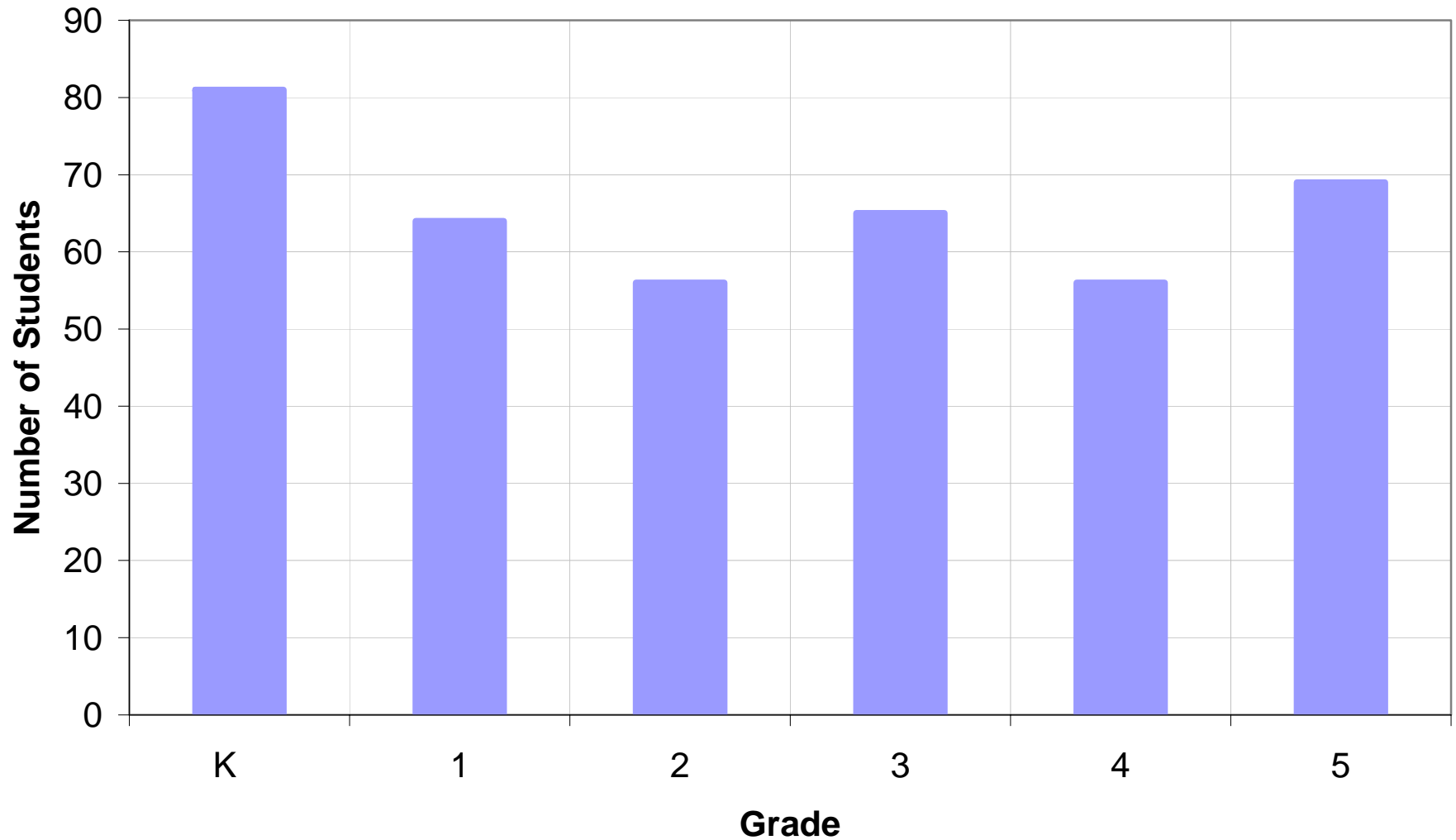
# Edison Attendance Area Kindergarten Resident History

## Edison Resident Kindergartners



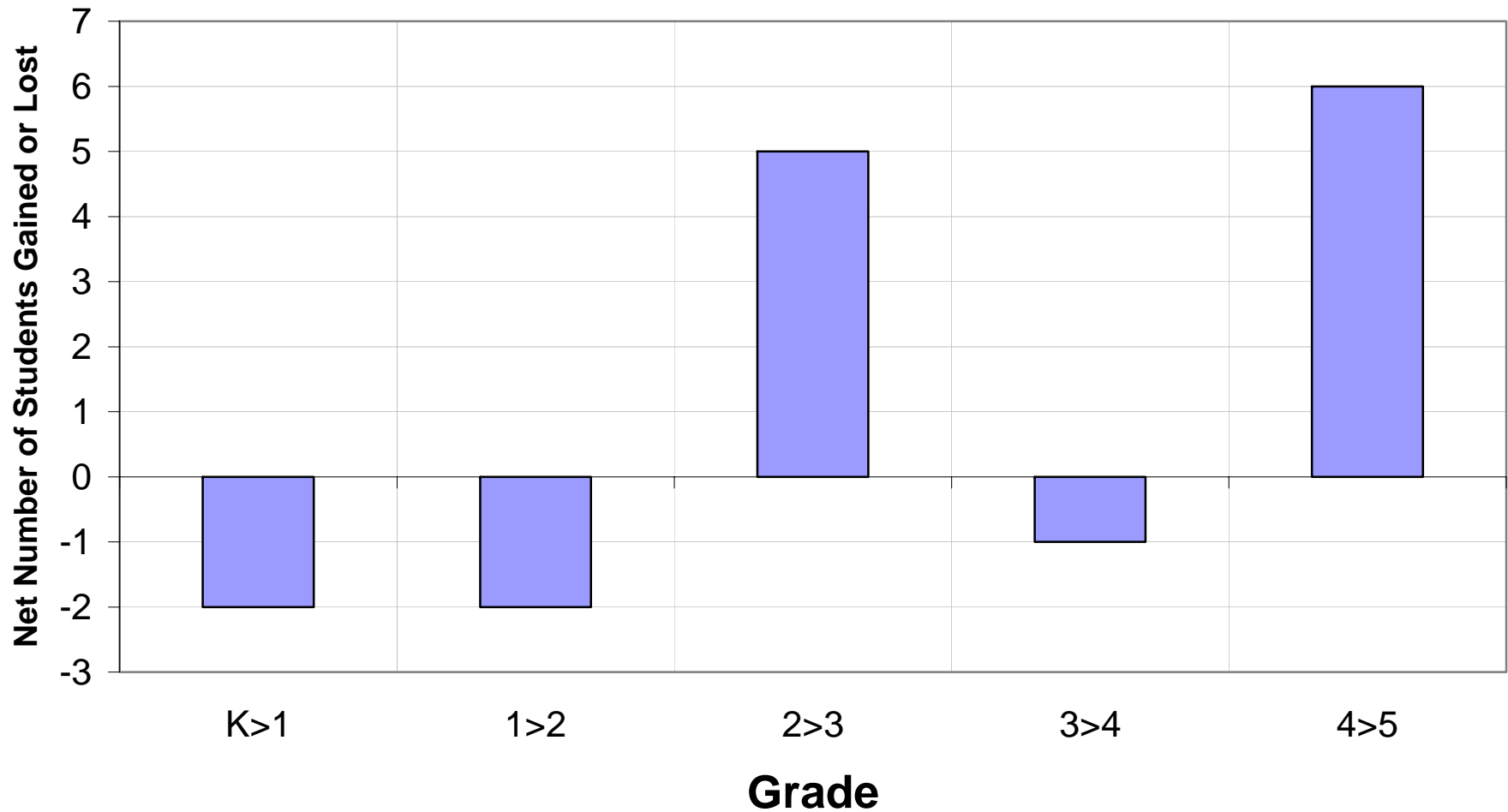
# Edison Attendance Area K-5 Residents 2007

## Edison's Current Residents by Grade



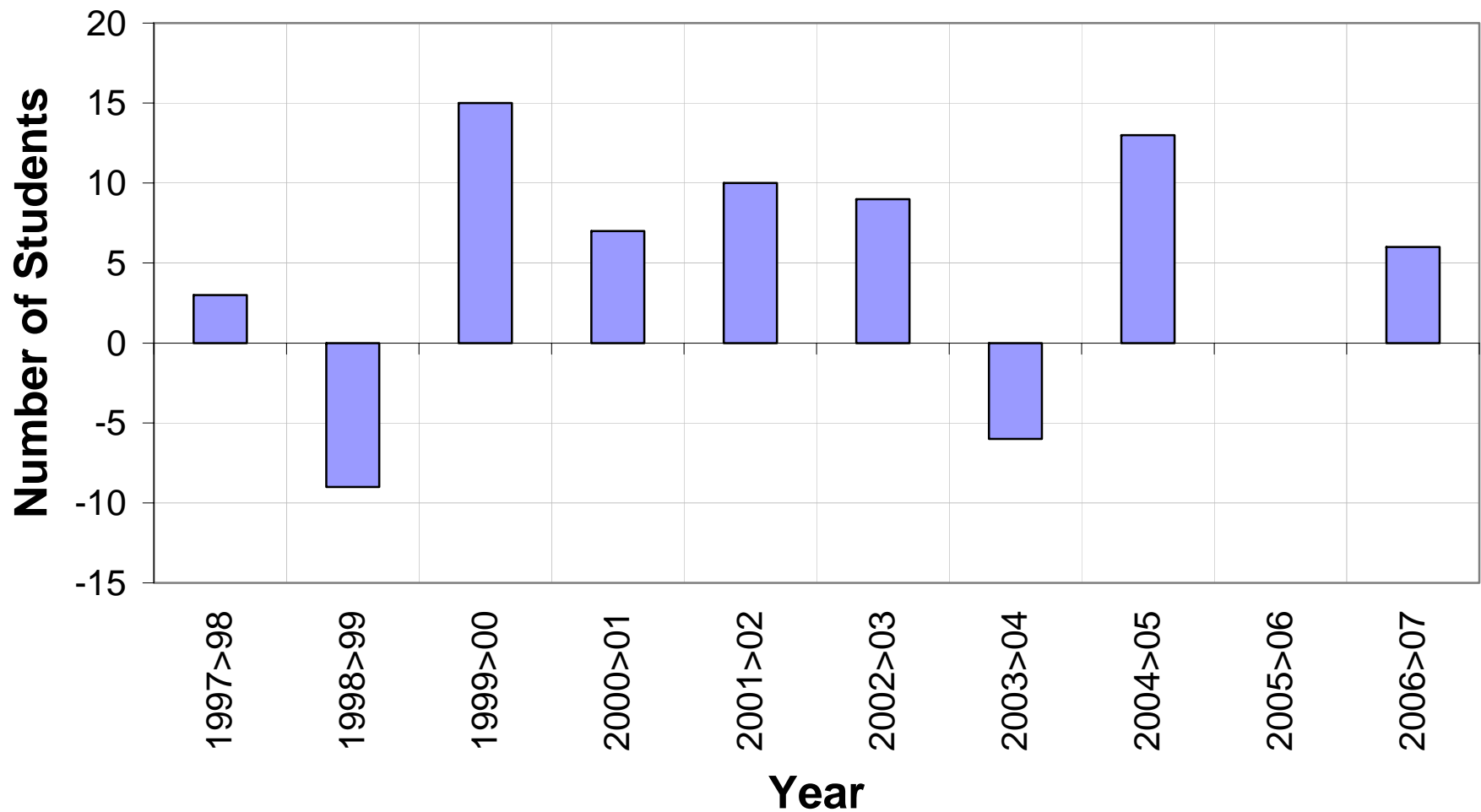
# Edison Attendance Area K-5 Grade Progressions: most recent pattern

Edison's Grade Progression Differences between Fall 2006 and Fall 2007



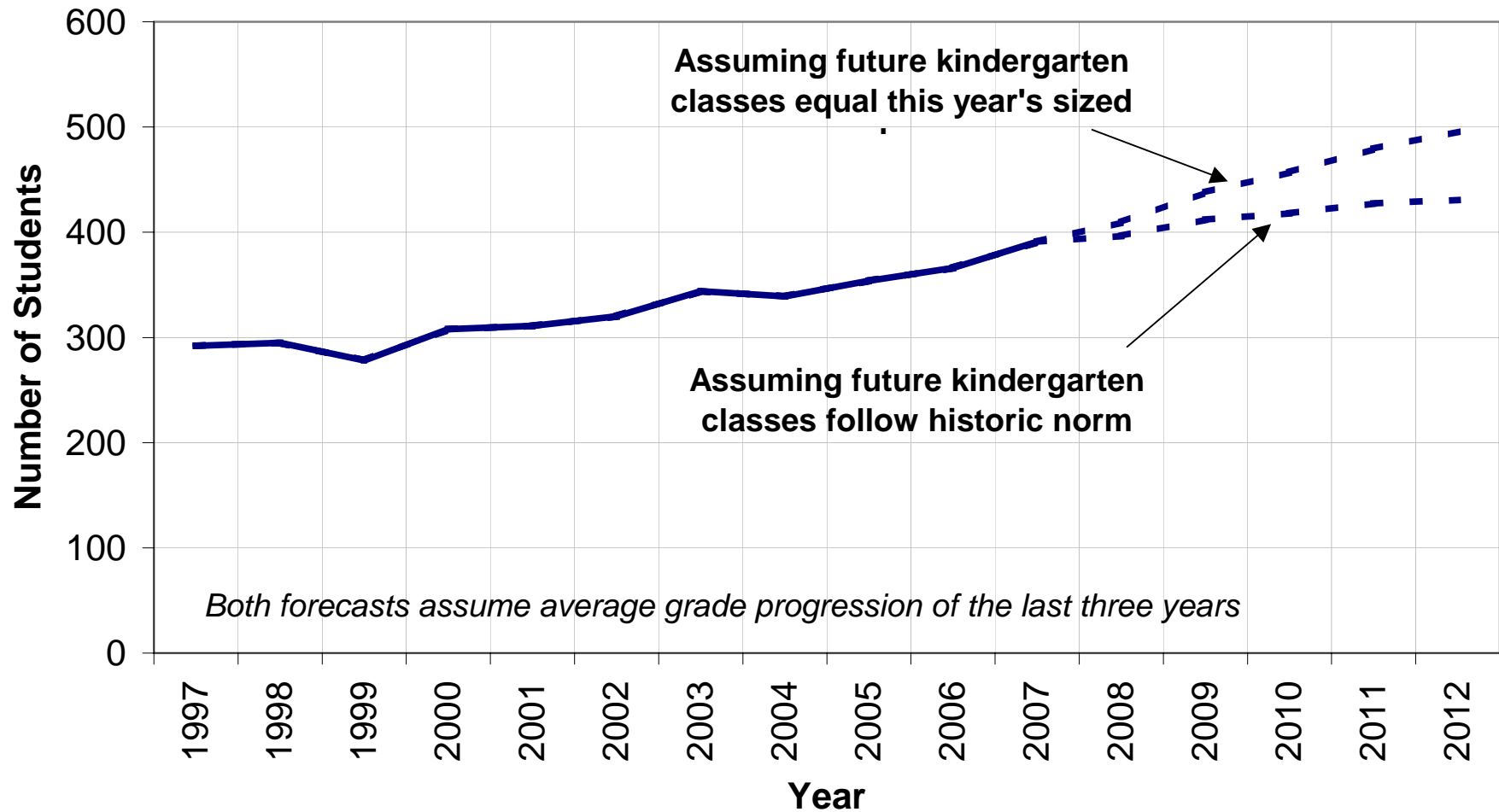
# Edison Attendance Area K-5 Grade Progressions over time

## Edison's Elementary Grade Progressions Summarized Grades K to 4 into Grades 1 to 5



# Edison Attendance Area K-5 Resident Forecast

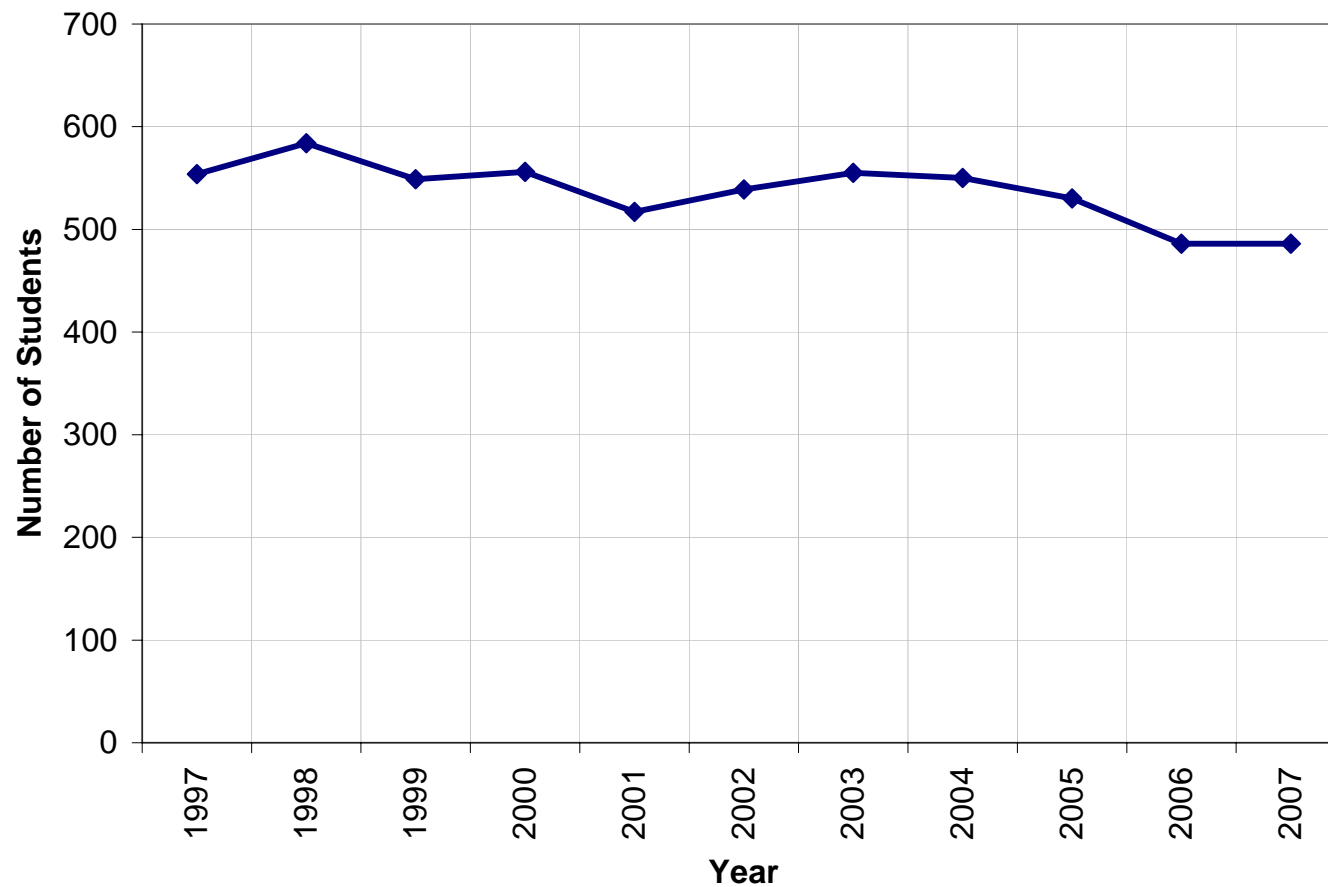
## K to 5 Residents Edison





## Haight Attendance Area Example

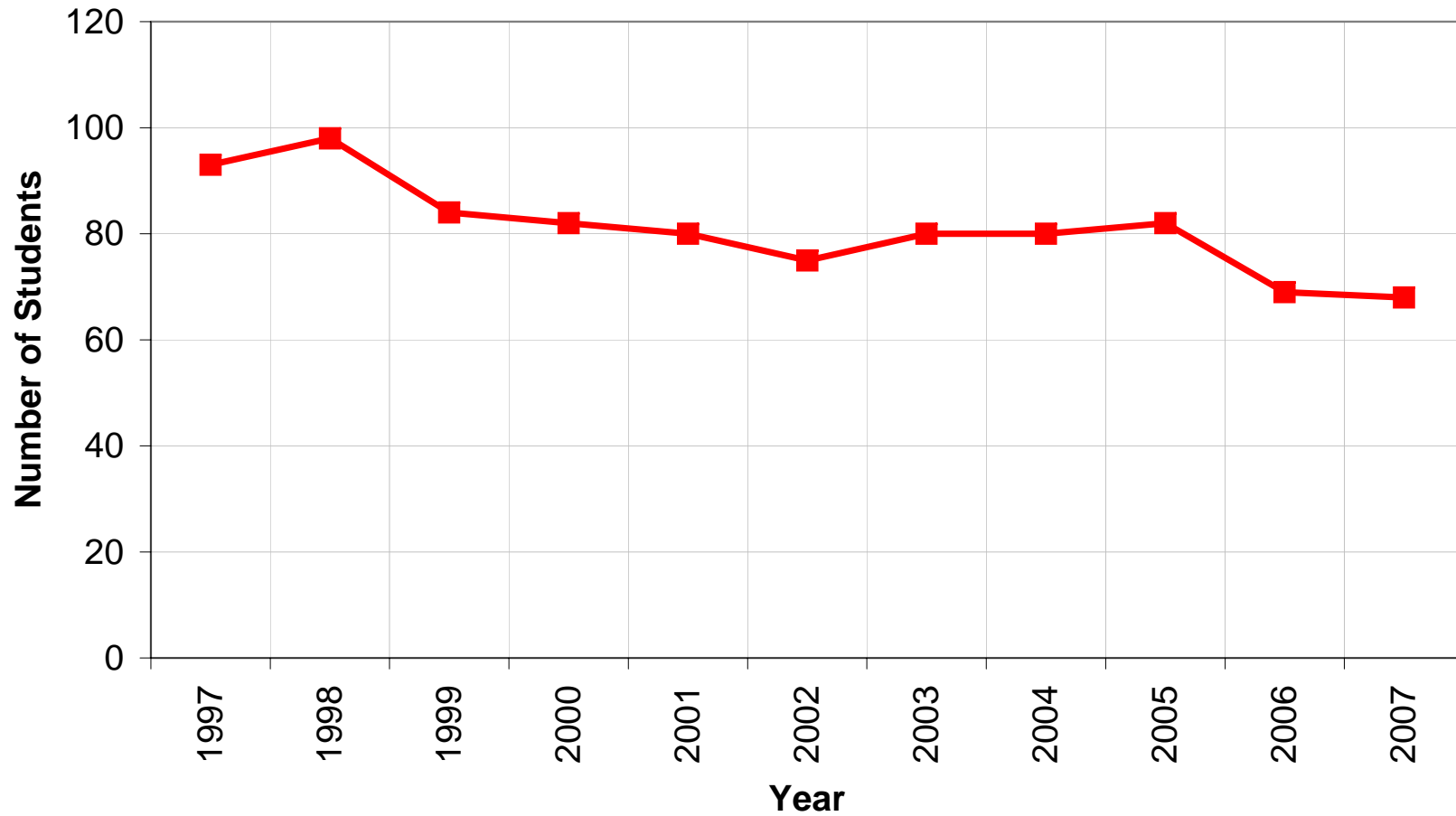
### Haight Attendance Area K-5 Resident History, 1997-2007



# Haight Attendance Area Kindergarten Resident History

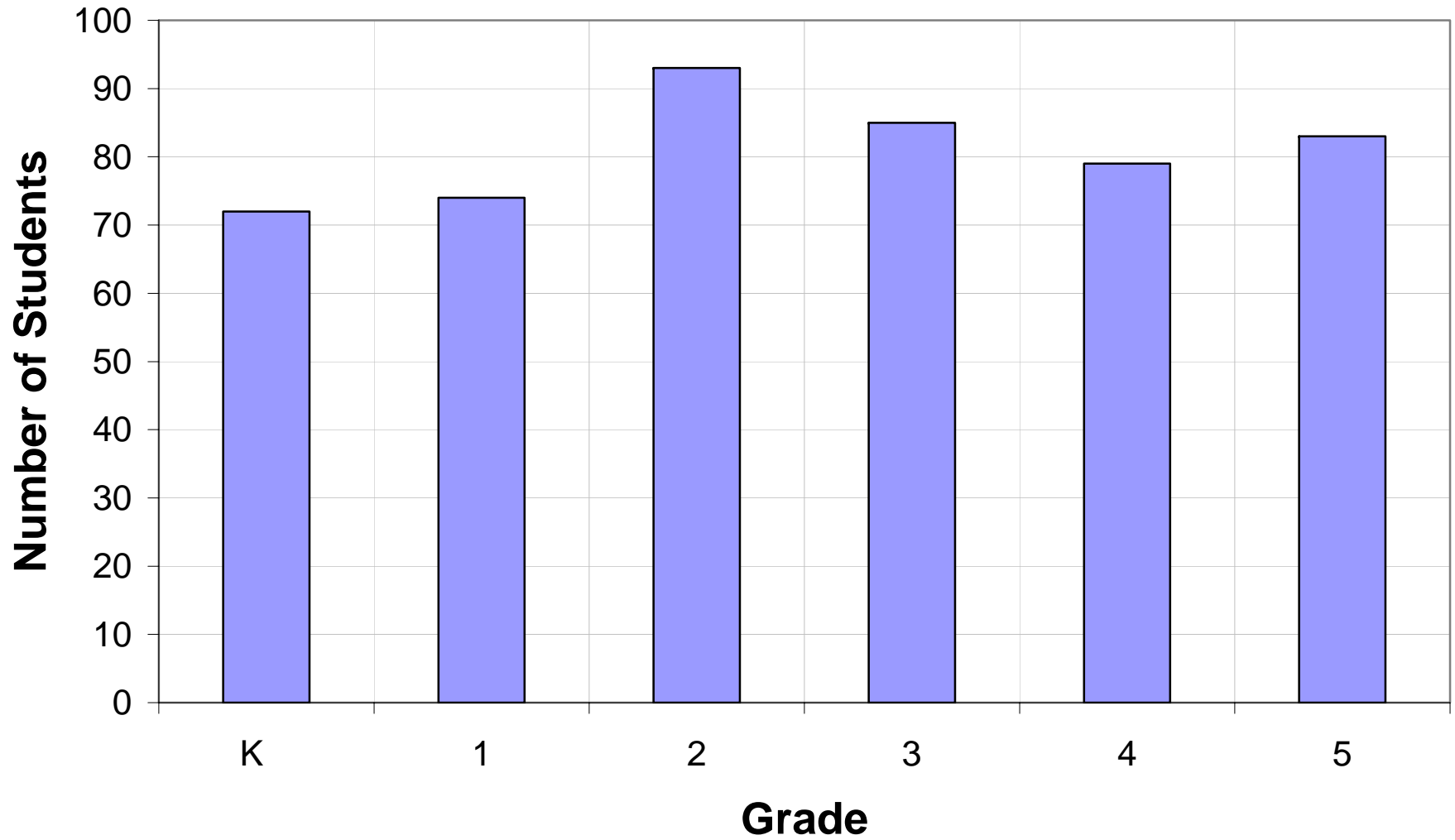
## Haight Resident Kindergartners

Excludes Marina Cove



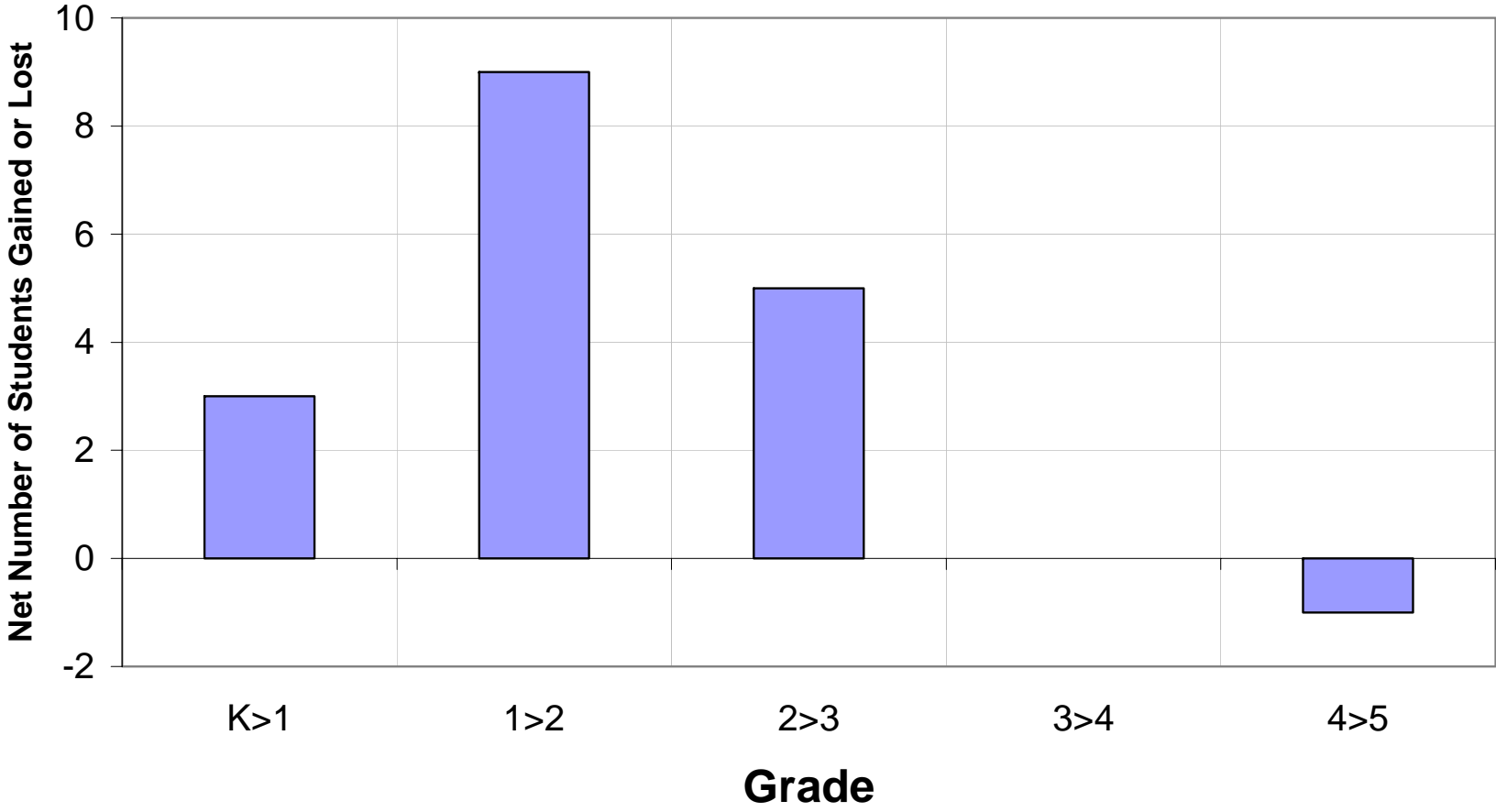
# Haight Attendance Area K-5 Residents 2007

## Haight 2007-08 Grade Distribution



# Haight Attendance Area K-5 Grade Progressions: most recent pattern

Haight's Grade Progressions between Fall 2006 and Fall 2007

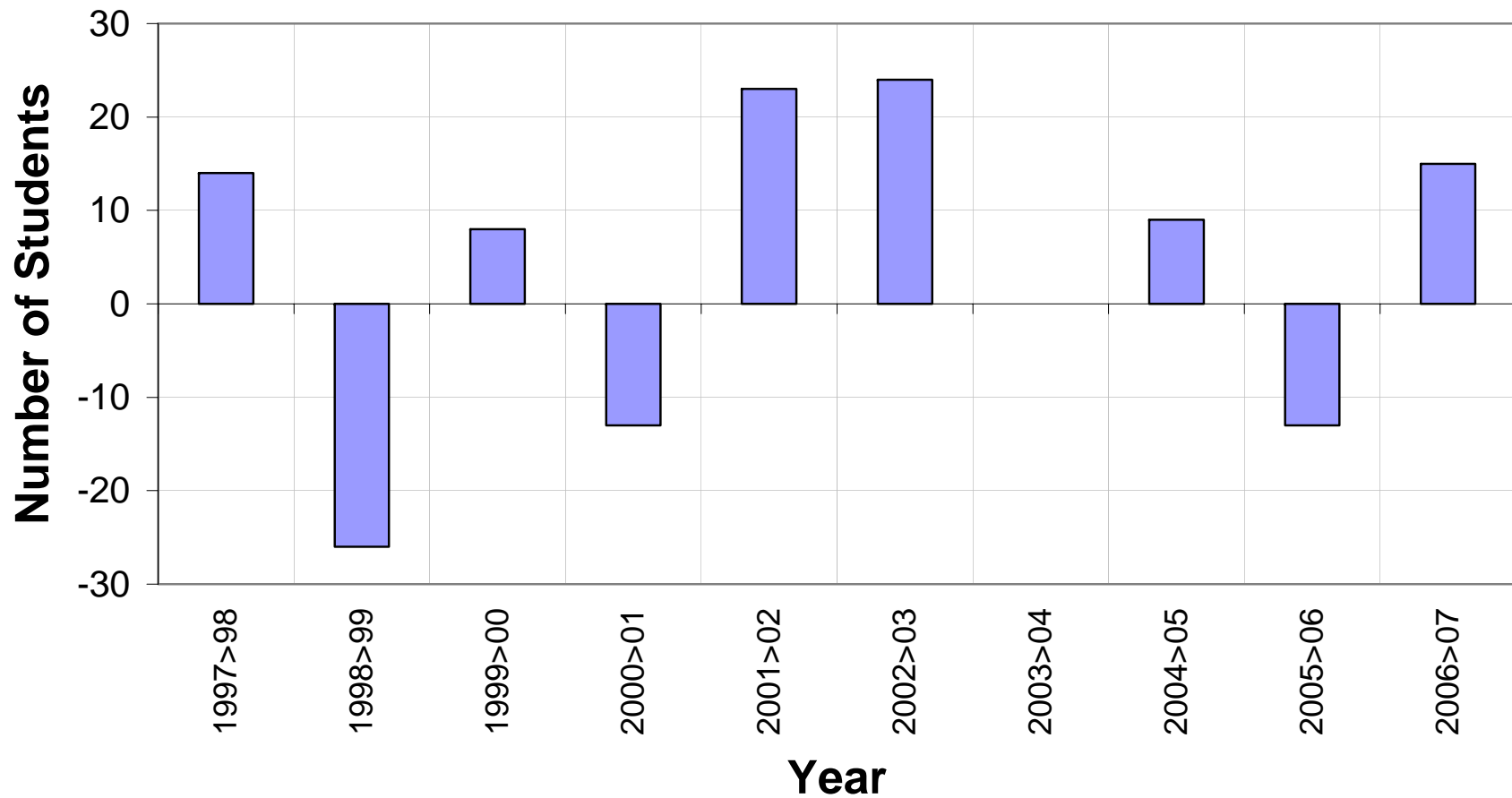


# Haight Attendance Area K-5 Grade Progressions over time – *highly variable*

## Haight Elementary Grade Progressions Summarized

Grades K to 4 into Grades 1 to 5

Excludes Marina Cove

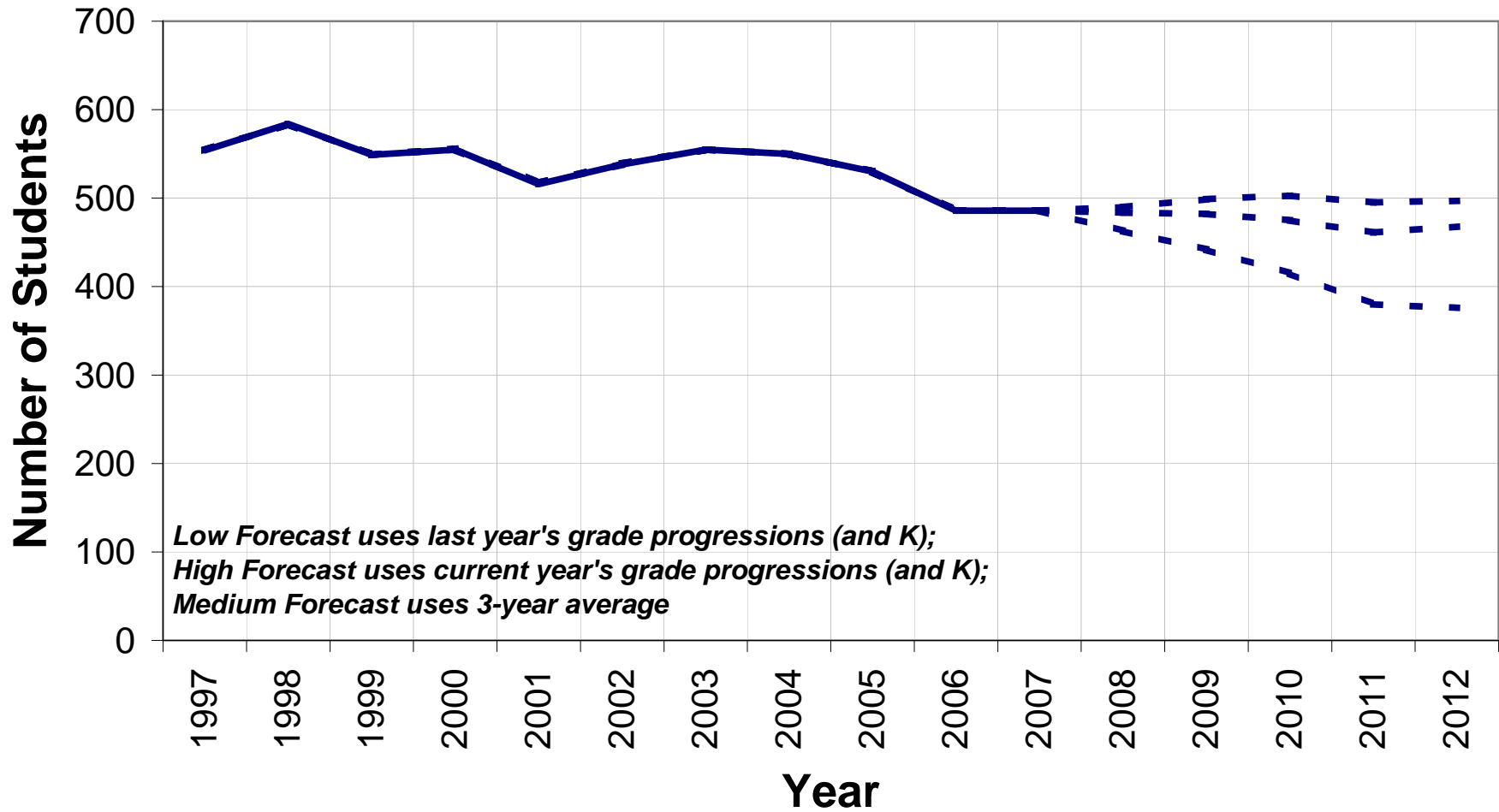


## **Students from new housing: Marina Cove**

- **Separated from historical analysis, in order to not bias or inflate analysis**
- **Separately forecasted, then added to the overall forecast**
- **15 elementary students currently reside in Marina Cove; 24 are expected eventually**

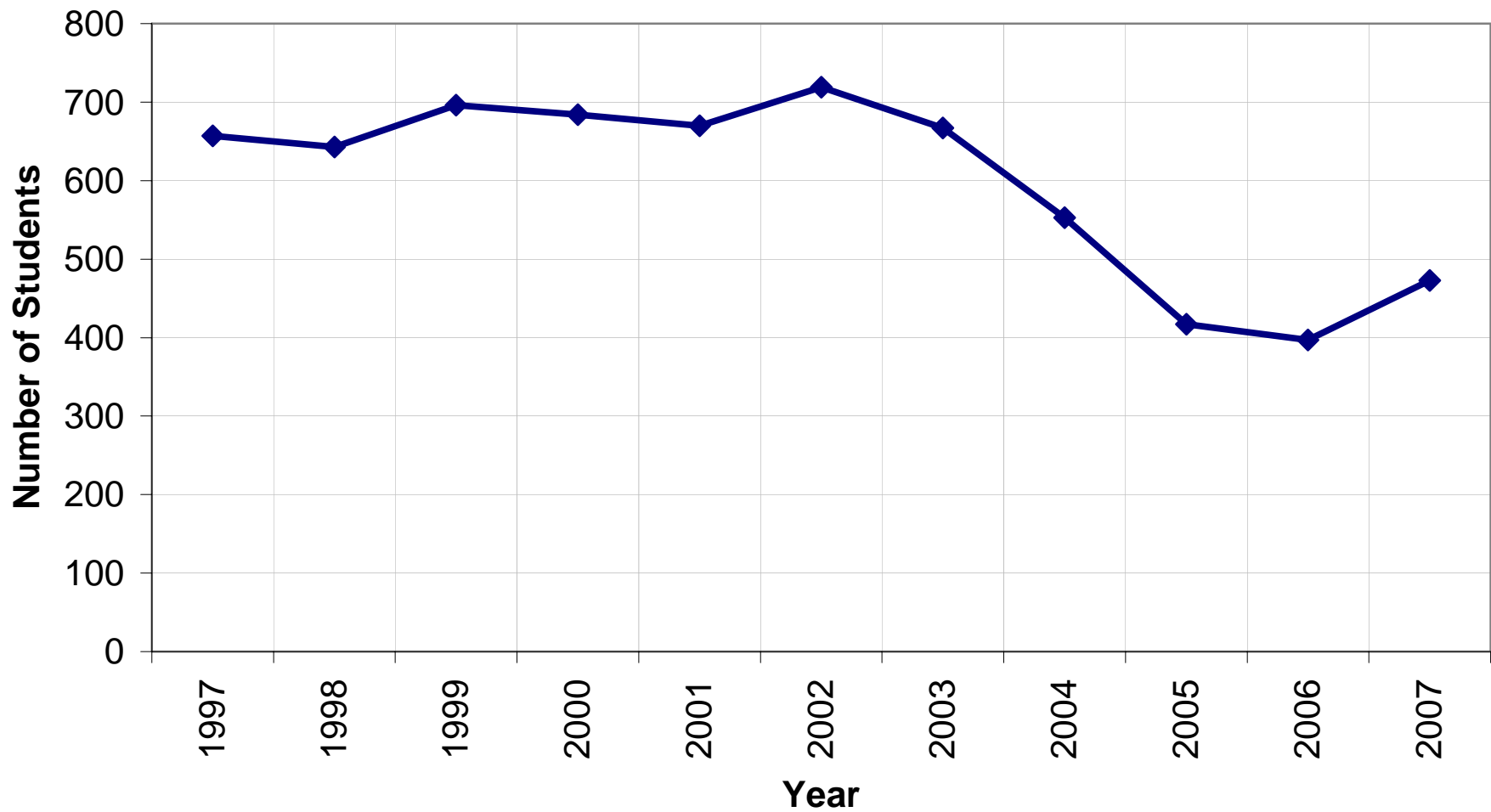
# Haight Attendance Area K-5 Resident Forecast

## K to 5 Residents Haight



# Ruby Bridges Attendance Area Example

K to 5 Residents  
Ruby Bridges





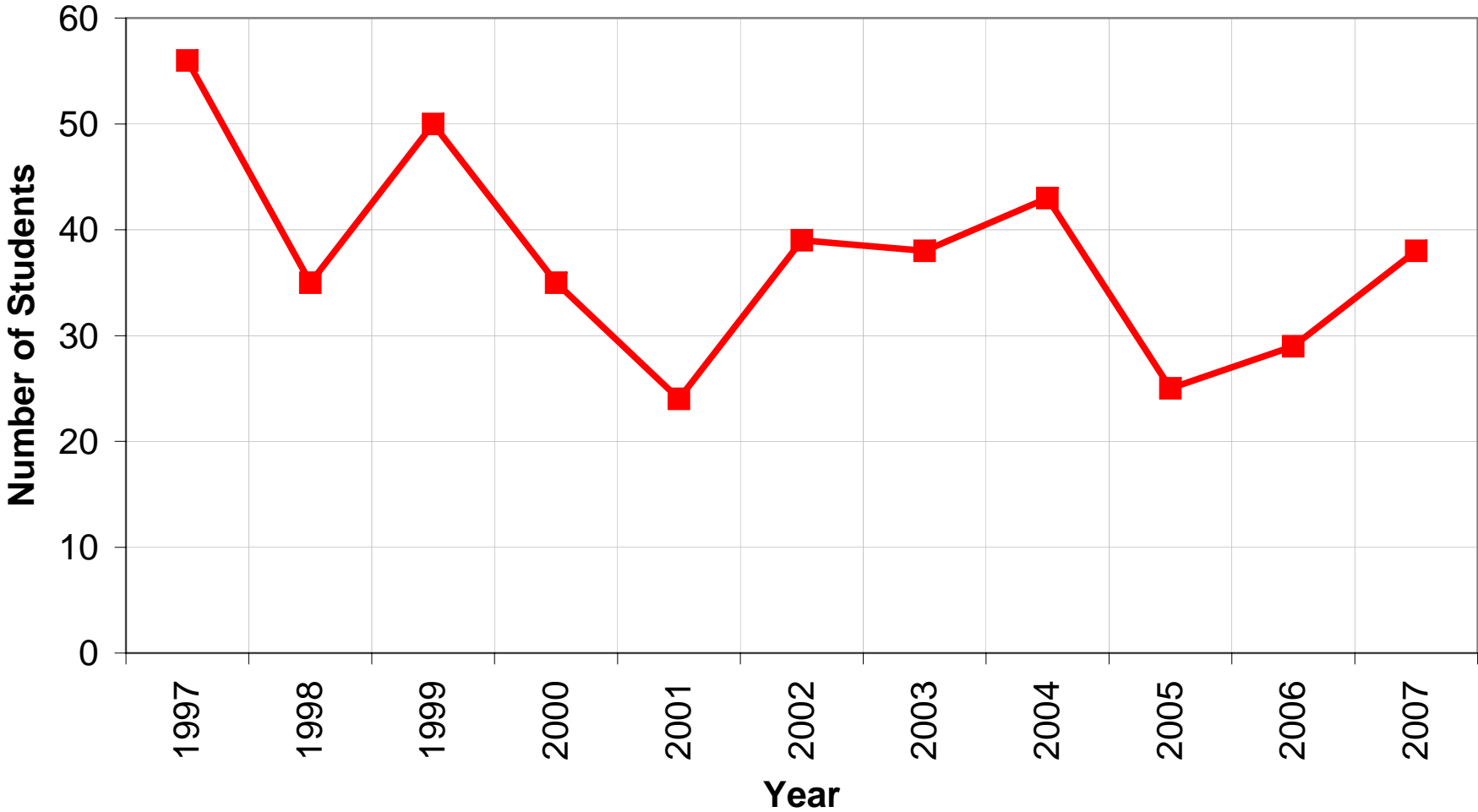
## **Enrollment Components of Ruby Bridges**

- **Base enrollments**
- **Summer House (formerly Harbor Isle Apartments)**
- **Bayport +**
- **Residual – students in existing housing**
- **Long-term future housing growth (outside of forecast horizon)**

# Ruby Bridges Attendance Area Kindergarten Resident History

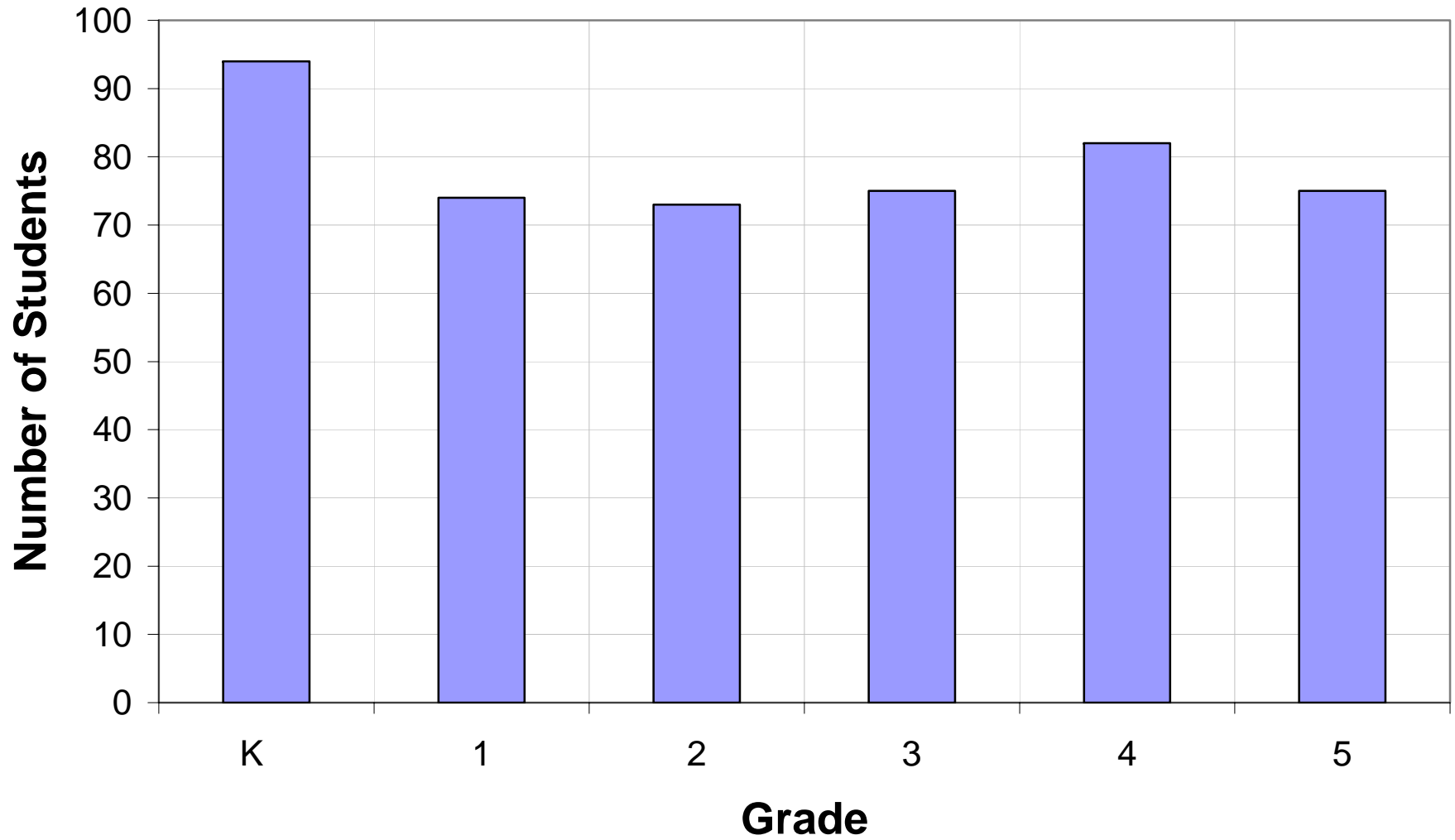
## Ruby Bridges Resident Kindergartners

Excludes Bayport, Summer House, Base



# Ruby Bridges Attendance Area K-5 Residents 2007

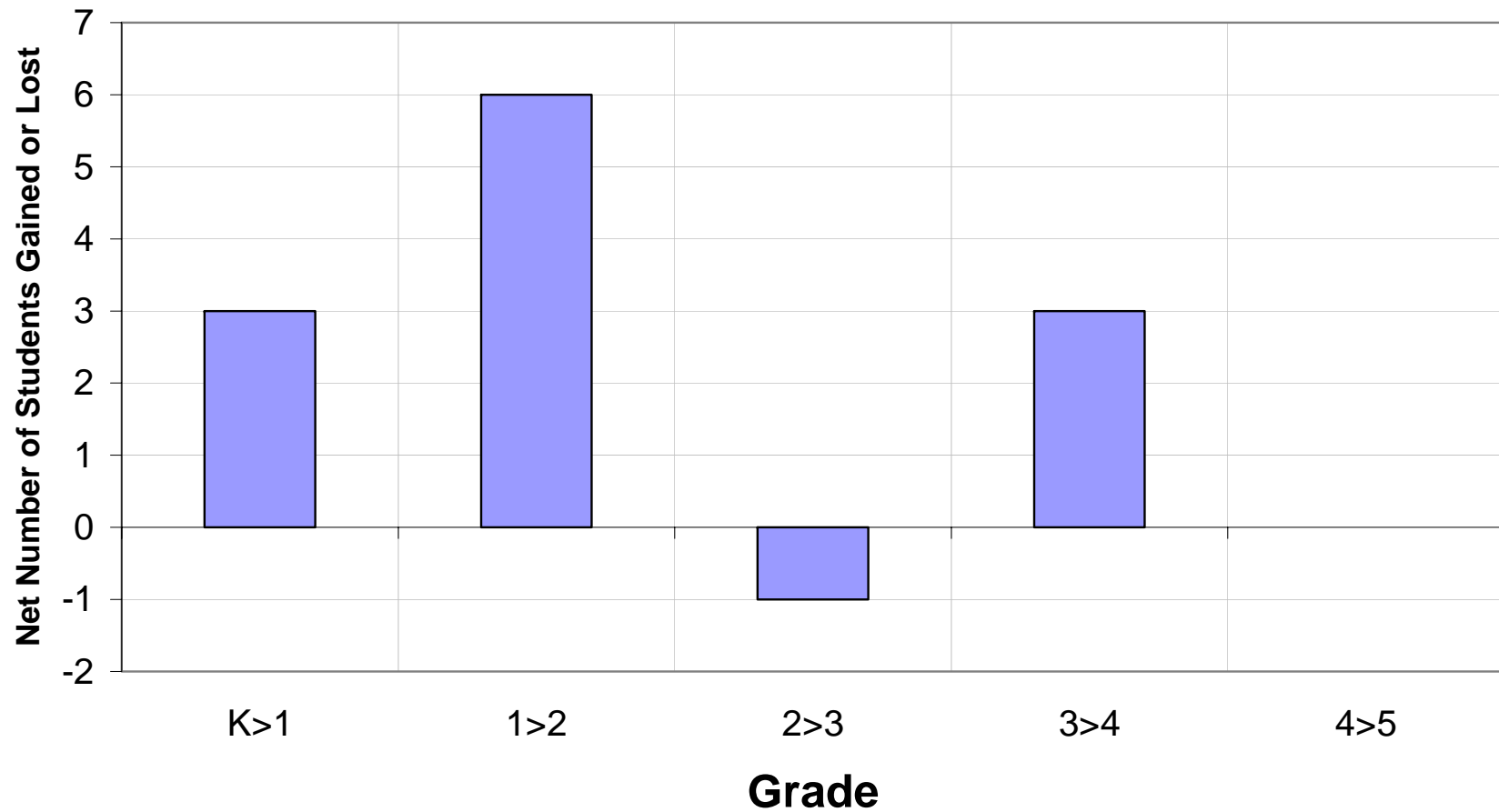
## Ruby Bridges 2007-08 Grade Distribution



# Ruby Bridges Attendance Area K-5 Grade Progressions: most recent pattern

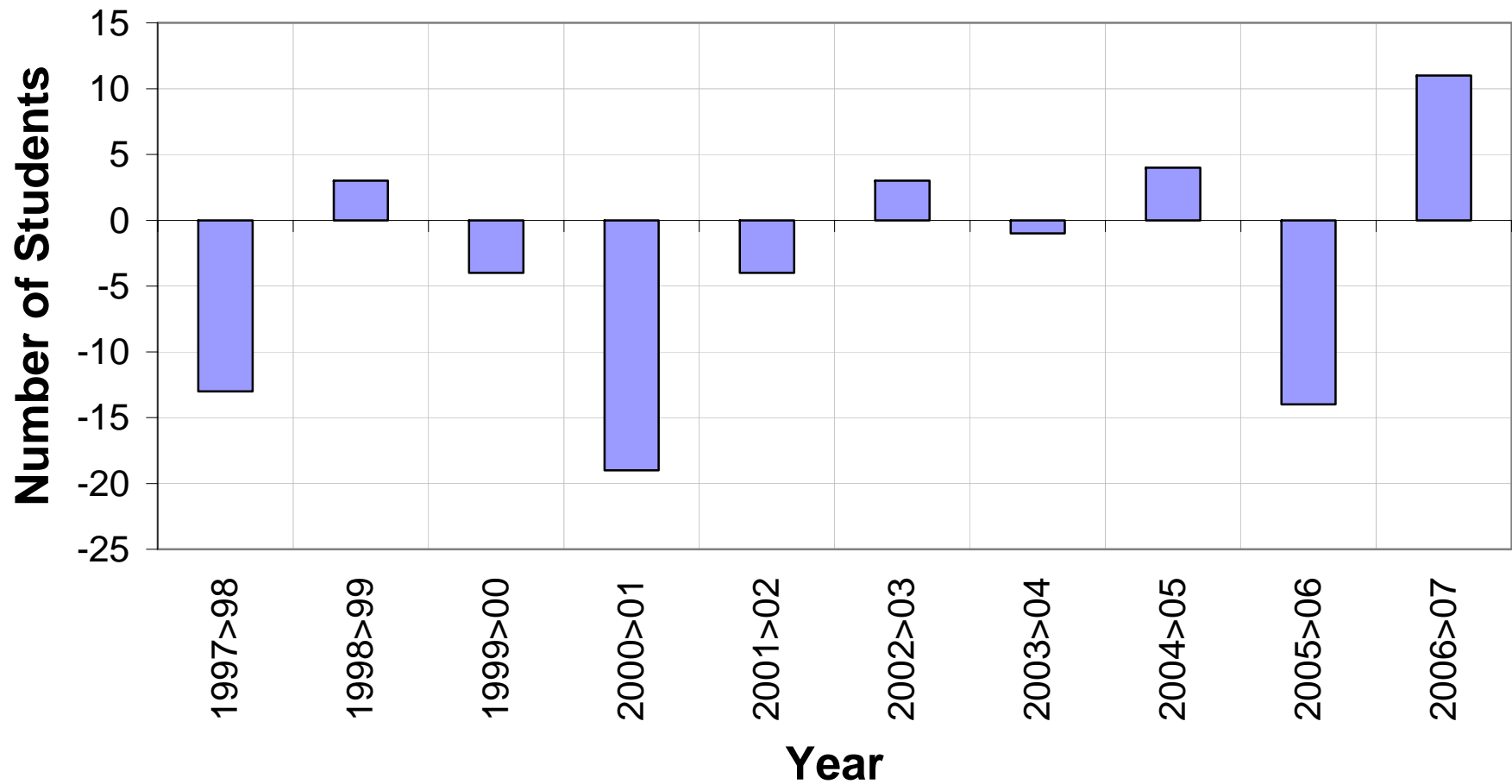
## Ruby Bridges Grade Progressions between Fall 2006 and Fall 2007

Excludes Base and New Housing



# Ruby Bridges Attendance Area K-5 Grade Progressions over time

**Ruby Bridges Elem. Grade Progressions Summarized**  
Grades K to 4 into Grades 1 to 5  
Excluding Bayport, Summer House, Base

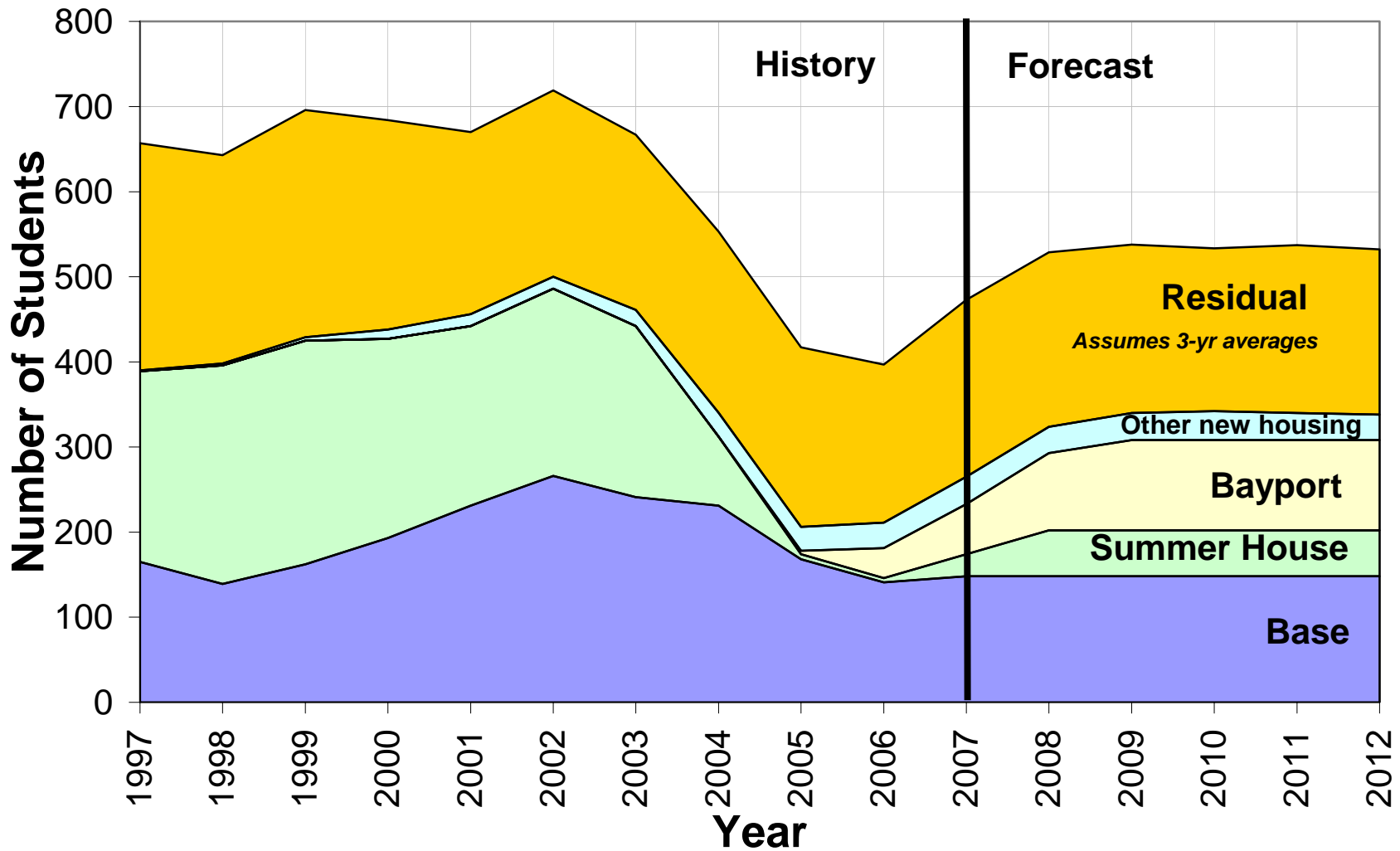


## **Bayport, Summer House, and Base**

- **Base enrollments**
  - Now expected to be fairly stable
- **Summer House (formerly Harbor Isle Apts)**
  - Currently contains 26 AUSD elementary students
  - About half occupied; 56 students are forecasted
- **Bayport +**
  - Bayport, The Landing at Bayport, and The Breakers at Bayport currently contain 59 elementary students.
  - The Breakers is completed, while Bayport and The Landing are 83% occupied. Also, a 39-unit low-income development will be built around 2009.
  - 106 AUSD elementary students are forecasted. Forecast multiplies number of units by the expected “student yield.”
    - Assumes .72 yield for the 39-unit low-income development; .25 yield at Bayport, .65 yield for The Breakers, and .81 for The Landing

# Ruby Bridges Attendance Area K-5 Resident Forecast

## Components of Ruby Bridges Residents

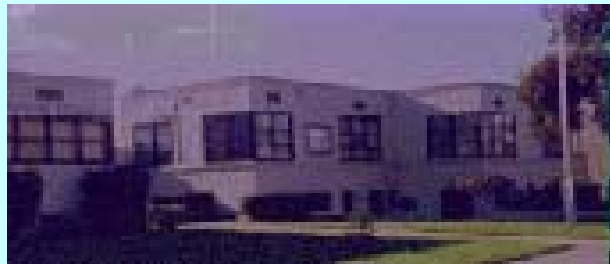
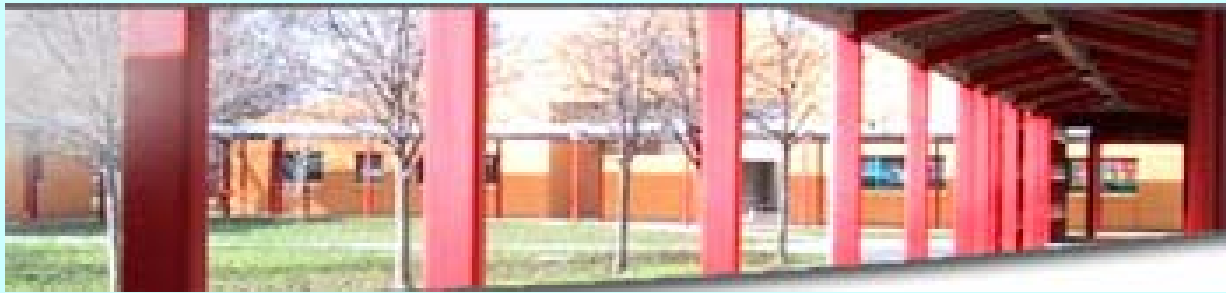


## **Ruby Bridges Forecast Range**

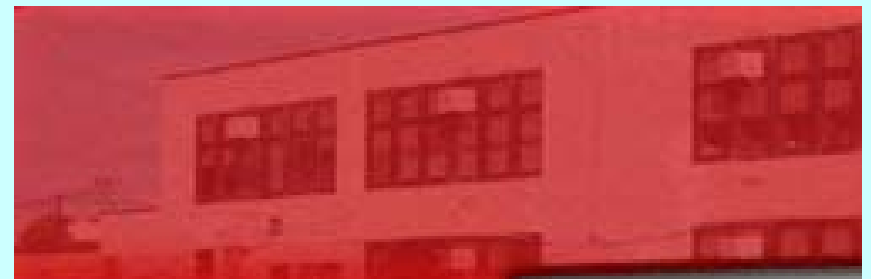
- **Many components could vary from what we have assumed**
  - **Student yields at Bayport +**
  - **Base housing usage**
  - **Usual kindergarten and grade progression assumptions for existing housing**
    - **The large number of apartments in the area make enrollments especially variable, as apartment dwellers on average are more mobile than homeowners**
  - **Eventually, many more housing units are anticipated on the former Naval Base, but this is beyond our current forecast horizon**



# Capacity Analyses



**Luz T. Cázares**  
**Chief Financial Officer**



# Defining School Capacity

**A school's capacity is based on the number of classrooms and how they are used.**

Classroom Use	Classroom Load
Regular Education	
Grades K-3	20
Grades 4-5	29
Special Day Class (SDC)	13
Miscellaneous	0
Computer Labs, Day Care, Resource Specialist Program (RSP), Music/Science, and Other	

# Classrooms and Use

School	Regular Education			Special Day Class (SDC)	Miscellaneous
	K-3	4-5	Total		
Bay Farm	17	6	23	1	3
Earhart	20	6	26	3	4
Edison	13	4	17	1	2
Franklin	10	3	13	0	2
Haight	14	5	19	1	7
Lum	16	6	22	1	2
Otis	14	4	18	1	3
Paden	12	4	16	2	4
Ruby Bridges	18	5	23	2	4
Washington	12	4	16	2	8
<b>Total</b>	<b>146</b>	<b>47</b>	<b>193</b>	<b>14</b>	<b>39</b>

# Reg Ed - Current Residents & Current Capacity

School	Current Residents	Capacity	Capacity Surplus / (Deficit)
Bay Farm	466	514	48
Earhart	539	574	35
Edison	401	376	(25)
Franklin	316	287	(29)
Haight	457	425	(32)
Lum	436	494	58
Otis	434	396	(38)
Paden	270	356	86
Ruby Bridges	447	505	58
Washington	323	356	33
<b>Total</b>	<b>4,089</b>	<b>4,283</b>	<b>194</b>
Out of District	149	-	(149)
<b>Grand Total</b>	<b>4,238</b>	<b>4,283</b>	<b>45</b>

# Reg Ed - Forecasted Residents & Current Capacity

School	Forecasted Residents	Capacity	Capacity Surplus/(Deficit)
Bay Farm	469	514	45
Earhart	535	574	39
Edison	474	376	(98)
Franklin	329	287	(42)
Haight	439	425	(14)
Lum	468	494	26
Otis	459	396	(63)
Paden	292	356	64
Ruby Bridges	560	505	(55)
Washington	299	356	57
<b>Total</b>	<b>4,324</b>	<b>4,283</b>	<b>(41)</b>
Out of District	149	-	(149)
<b>Grand Total</b>	<b>4,473</b>	<b>4,283</b>	<b>(190)</b>

# Classrooms and Use

School	Miscellaneous			Additional Capacity		
	Computer Lab	Day Care	Other	Low	Med	High
Edison	1	1	0	26	40	58
Haight	1	0	6	91	140	203
Ruby Bridges	1	2	1	52	80	116

# Summary of Major Points

- **There is a mismatch between elementary enrollment forecasts and current school capacity.**
- **There are four categories of solutions to address the problem.**
  - **Change boundaries**
  - **Create magnet programs**
  - **Divert overflow**
  - **Increase capacity**
- **The task force evaluates solutions by considering three types of impact.**
  - **Facility impact**
  - **Financial impact**
  - **Program impact**

# Next Steps

## Elementary Capacity Task Force

- **Continues to meet on a weekly basis**
- **Presents options under development at Special Board of Education Workshop on December 12th at Paden Elementary School**
- **Superintendent's recommendations will be presented to the Board of Education in February at regularly scheduled meetings**

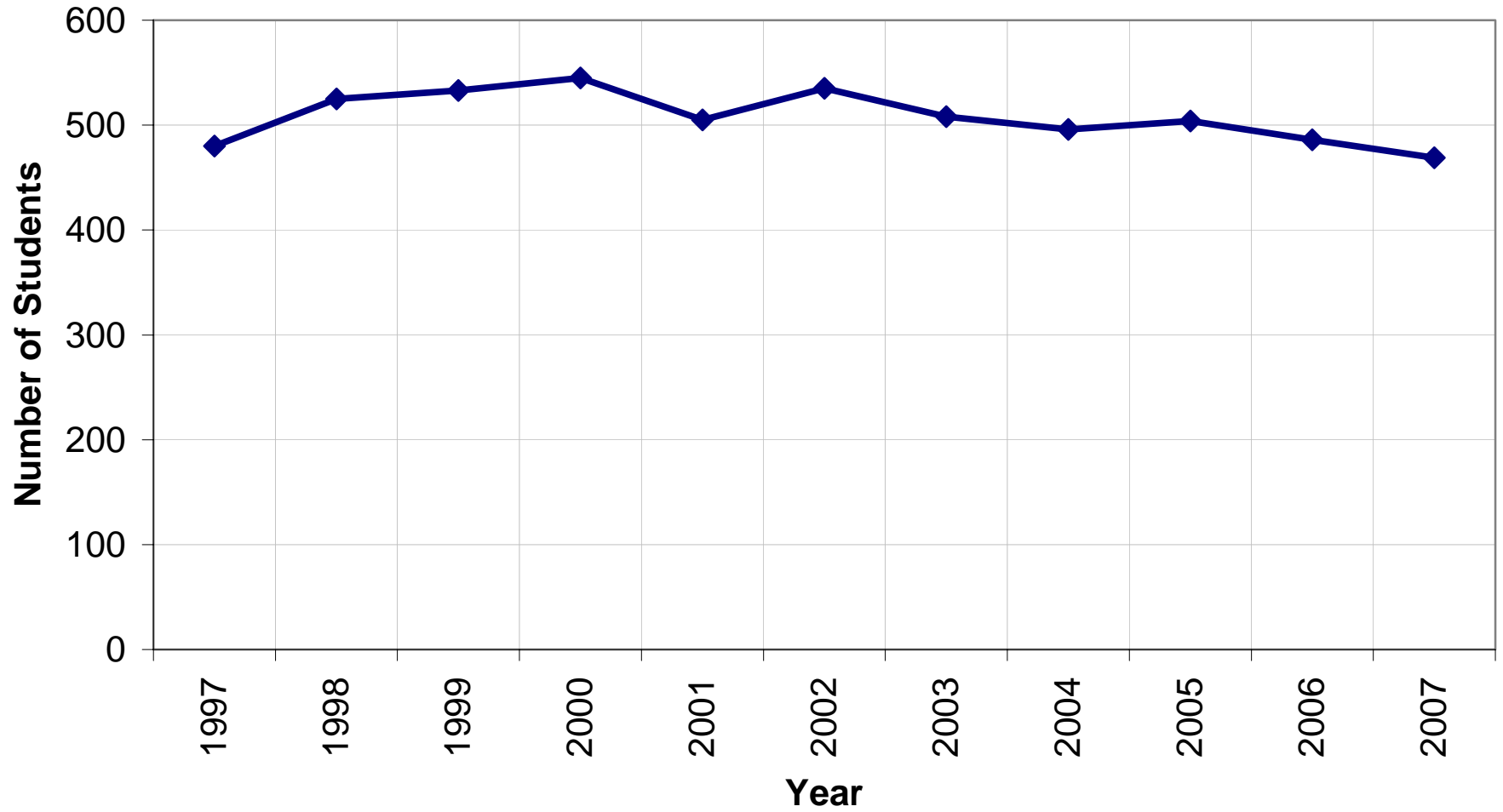
## Secondary Education Task Force

- **Expands membership in January**
- **Presents initial options at Community workshop in March**

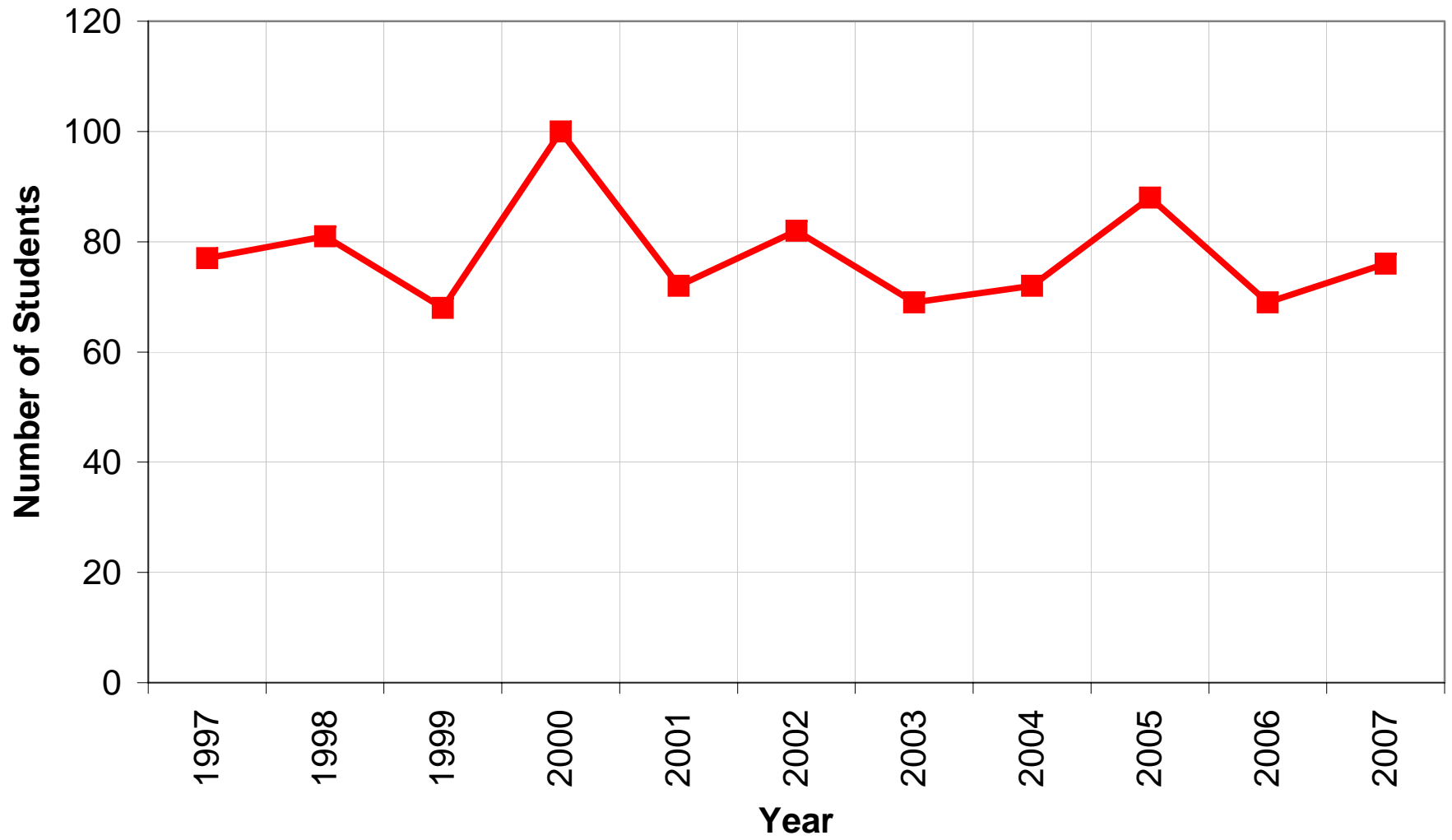


**Analyses of Other  
Elementary Attendance  
Areas**

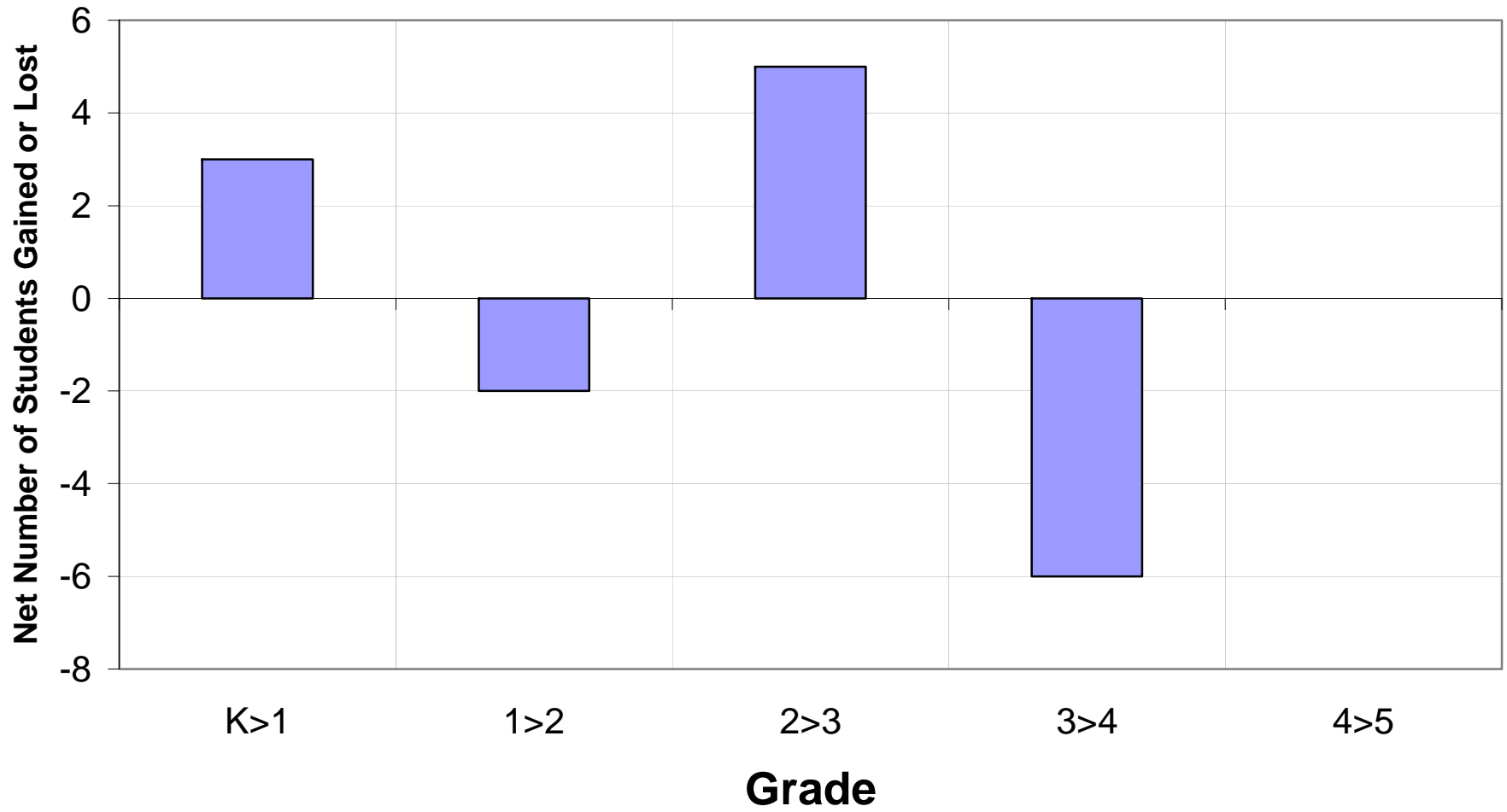
## K to 5 Residents Bay Farm



## Bay Farm Residents' Kindergartners

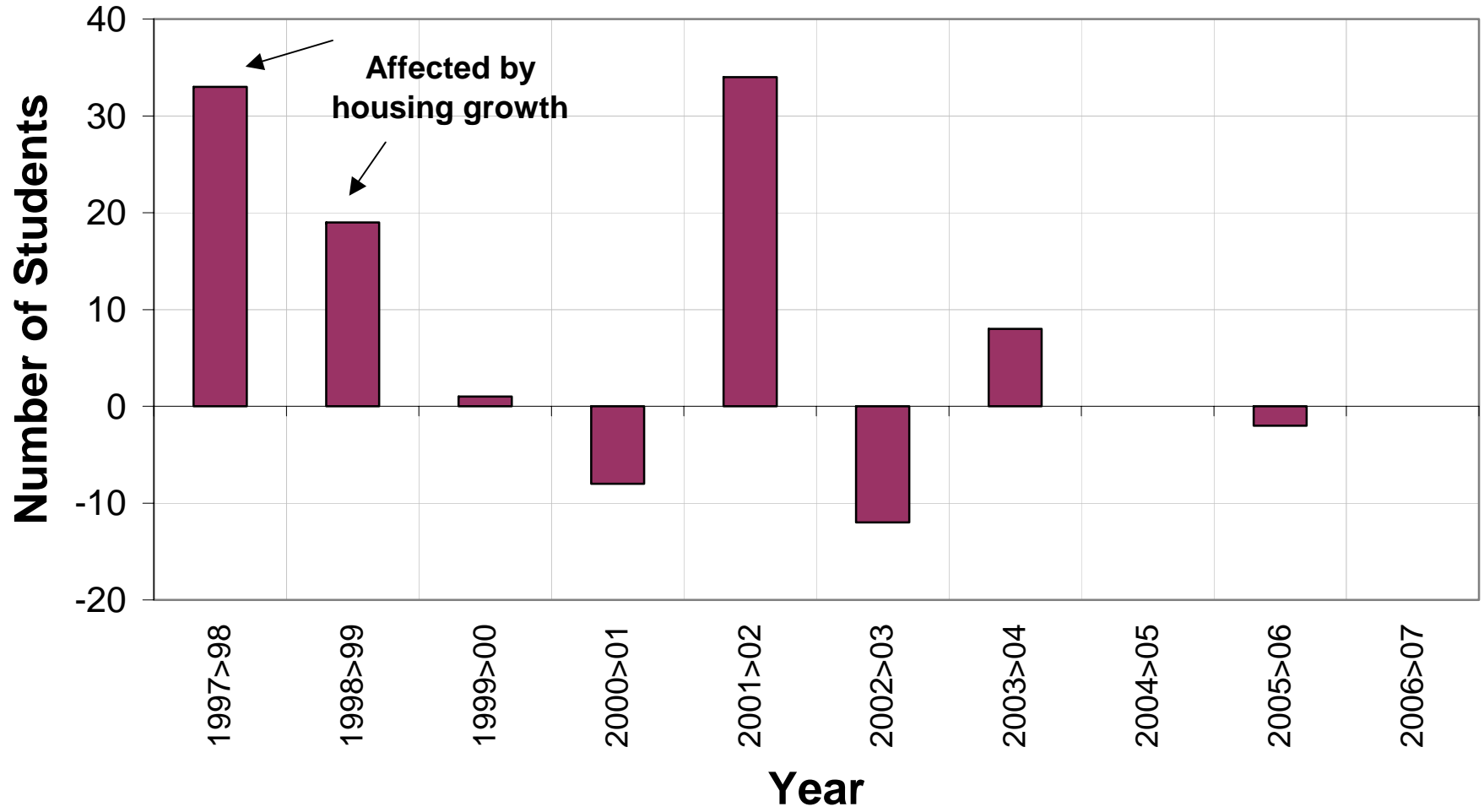


## Bay Farm's Grade Progressions between Fall 2006 and Fall 2007



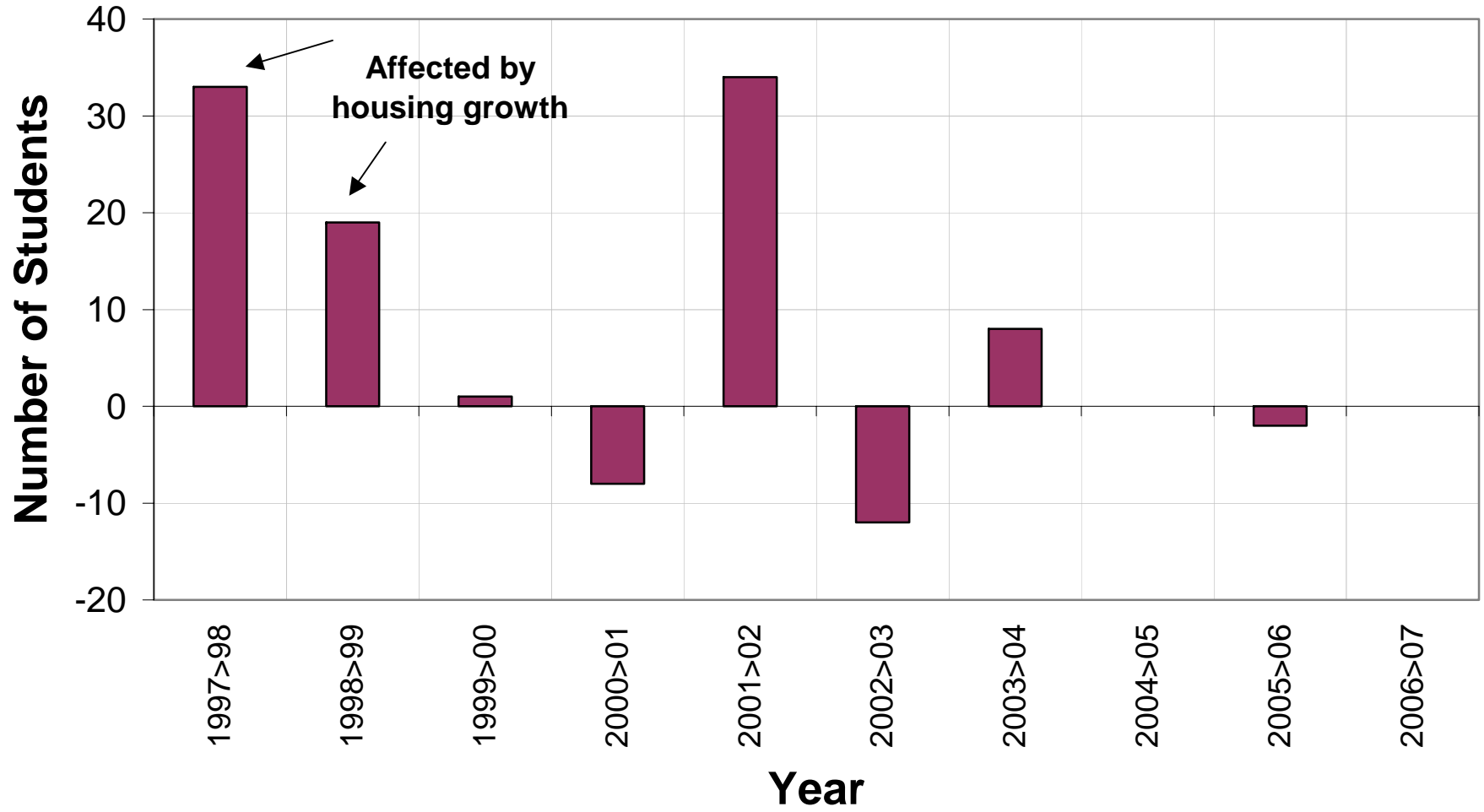
# Bay Farm Elementary Grade Progressions Summarized

## Grades K to 4 into Grades 1 to 5

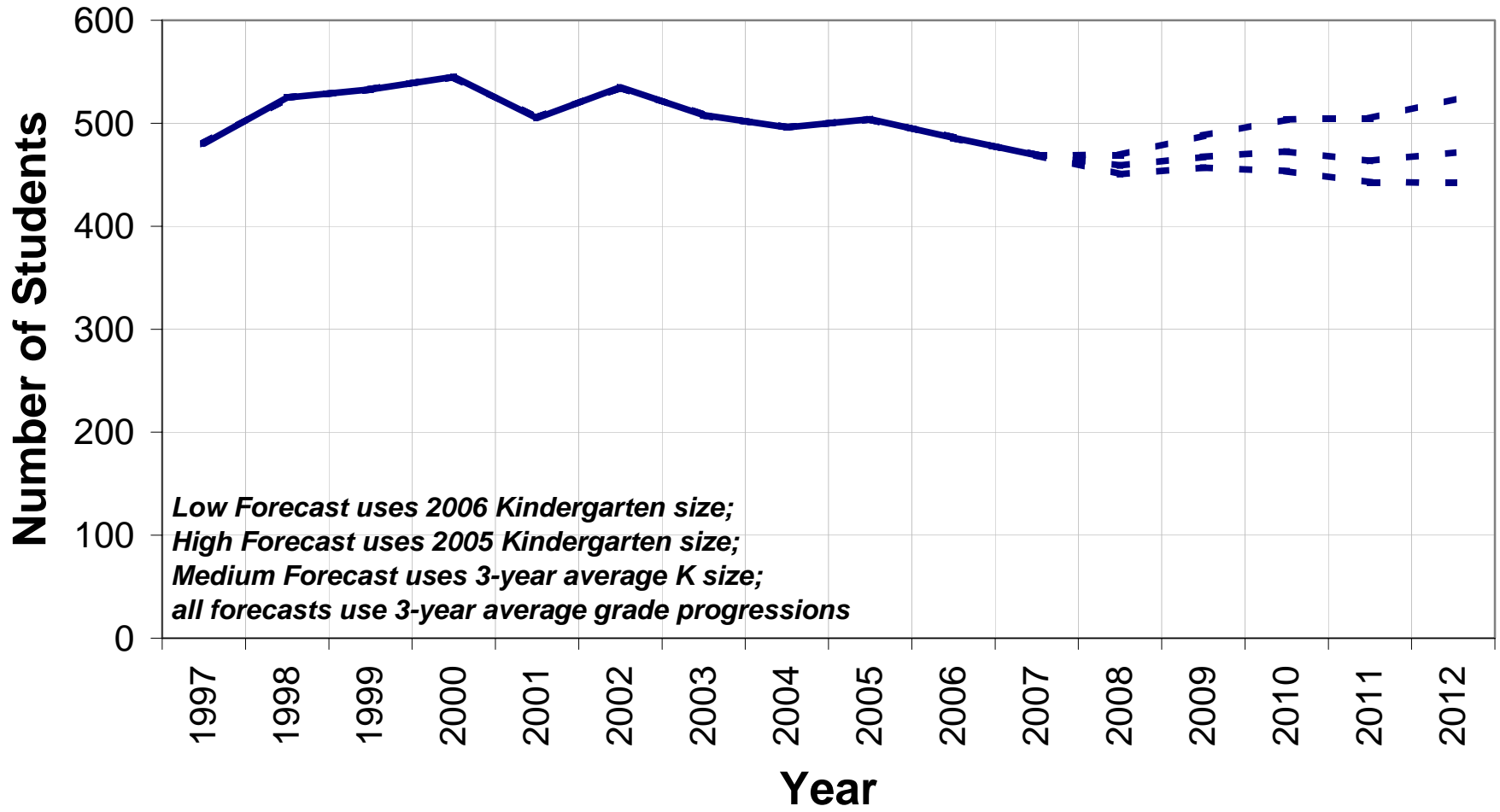


# Bay Farm Elementary Grade Progressions Summarized

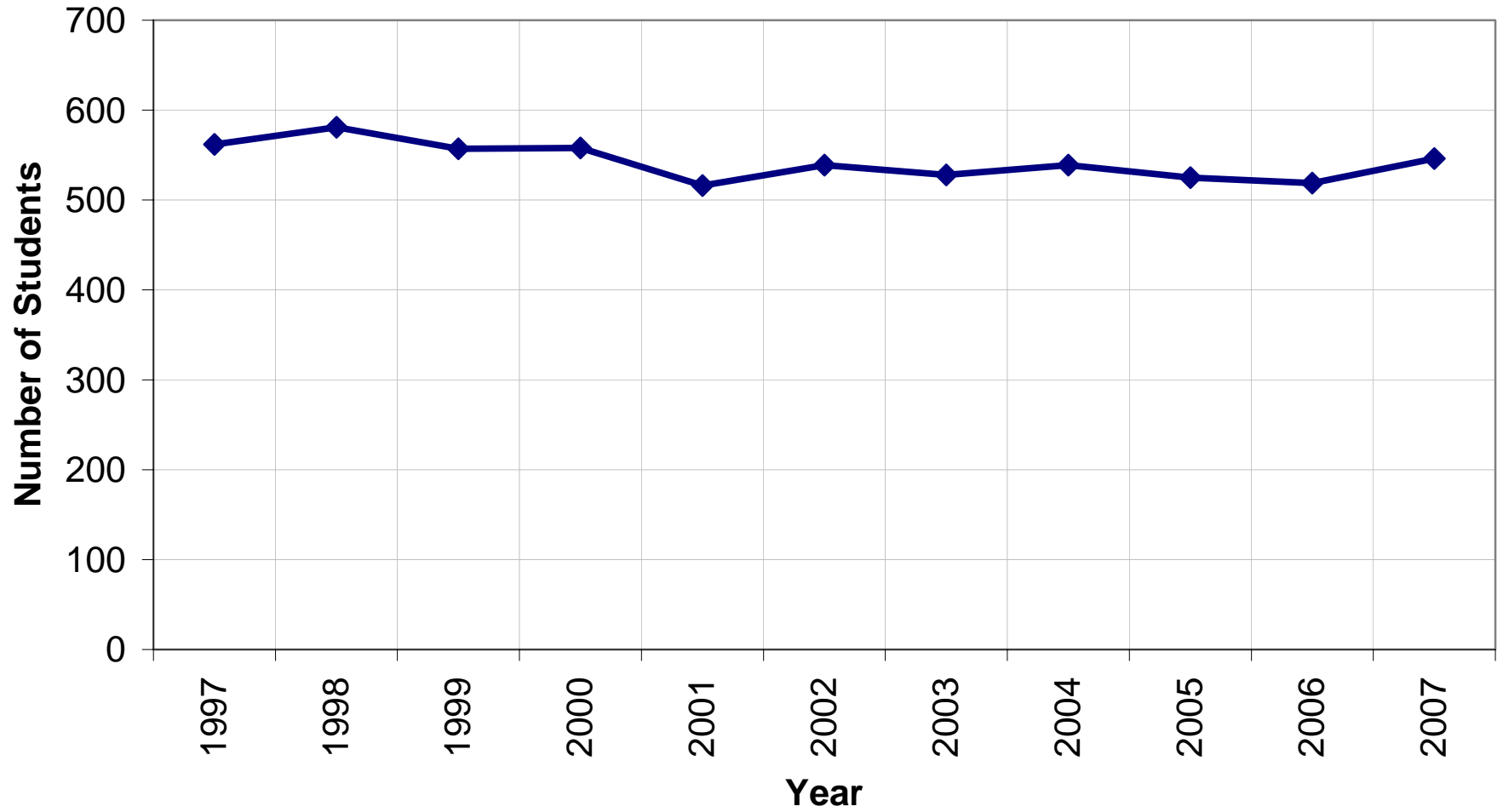
## Grades K to 4 into Grades 1 to 5



# K to 5 Residents Bay Farm

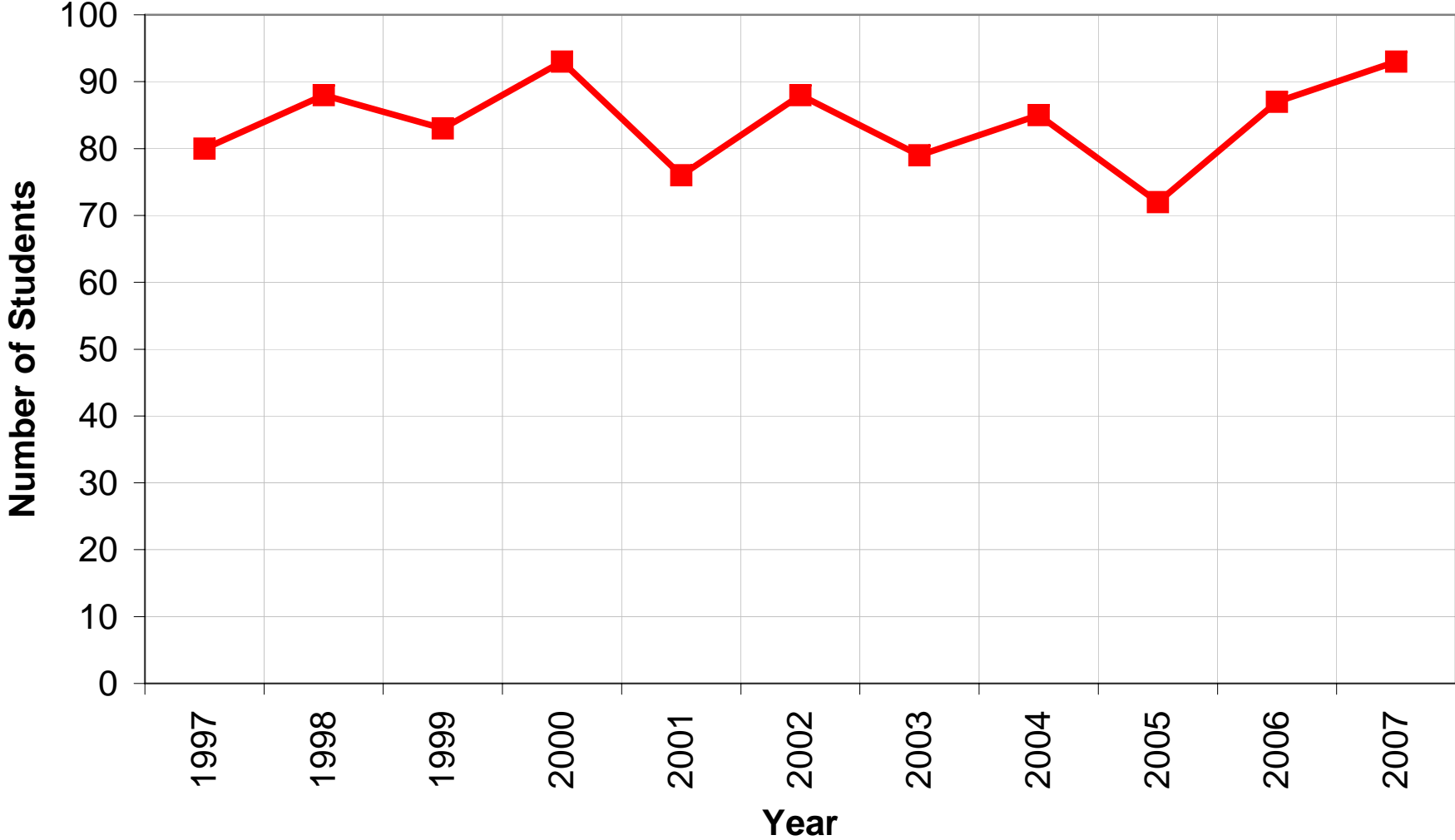


## K to 5 Residents Earhart

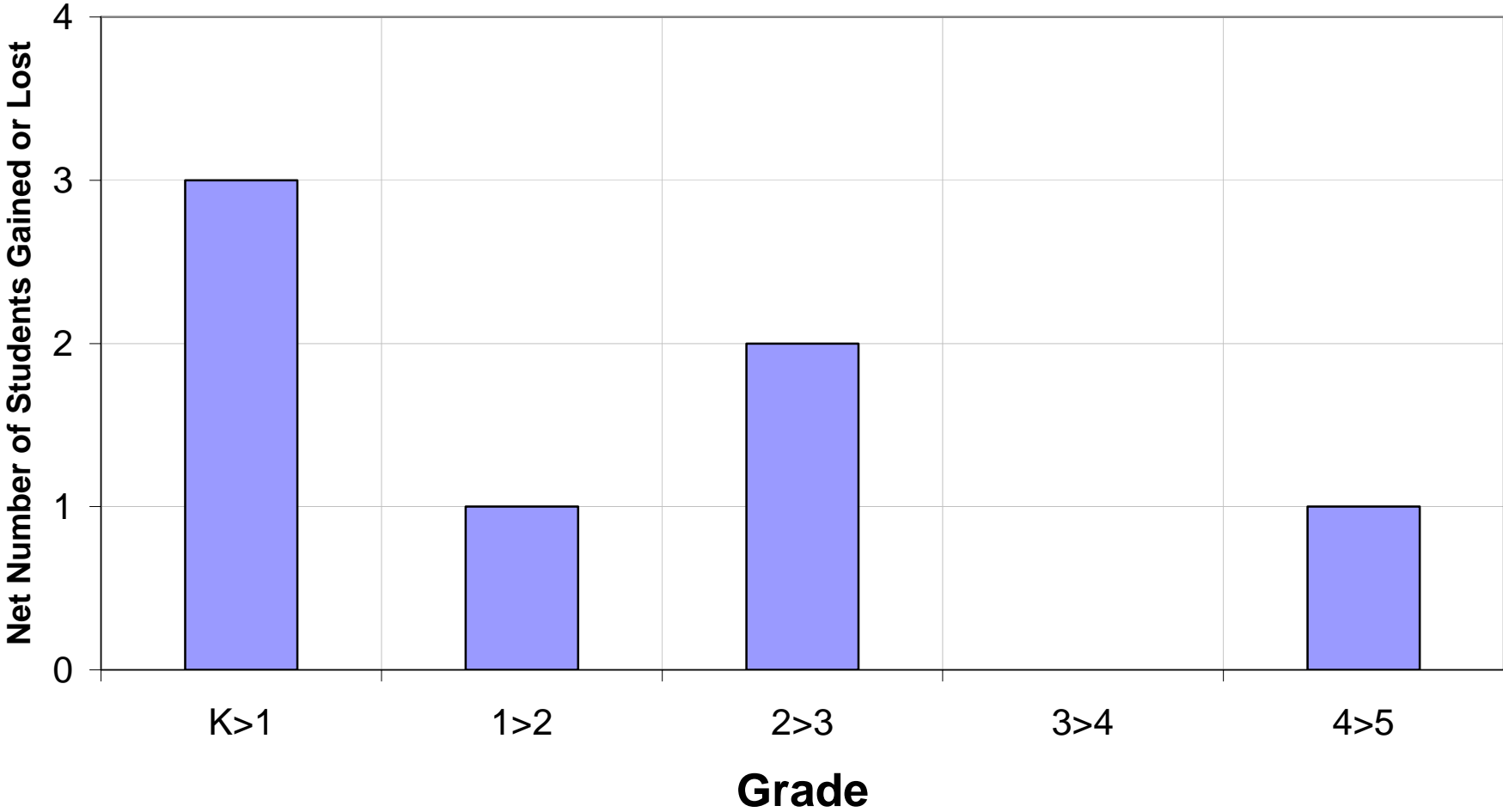




# Earhart Residents' Kindergartners



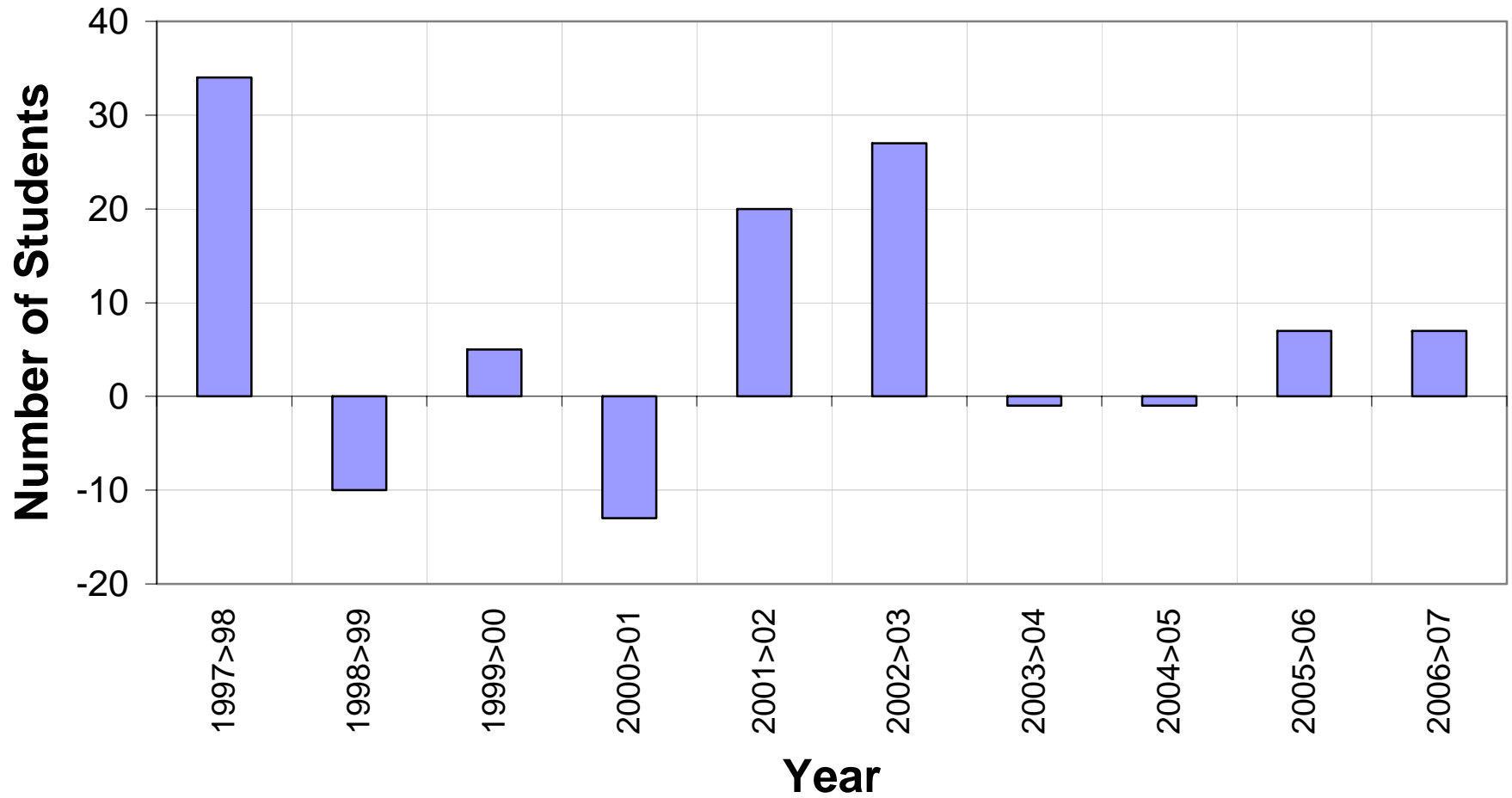
# Earhart's Grade Progressions between Fall 2006 and Fall 2007



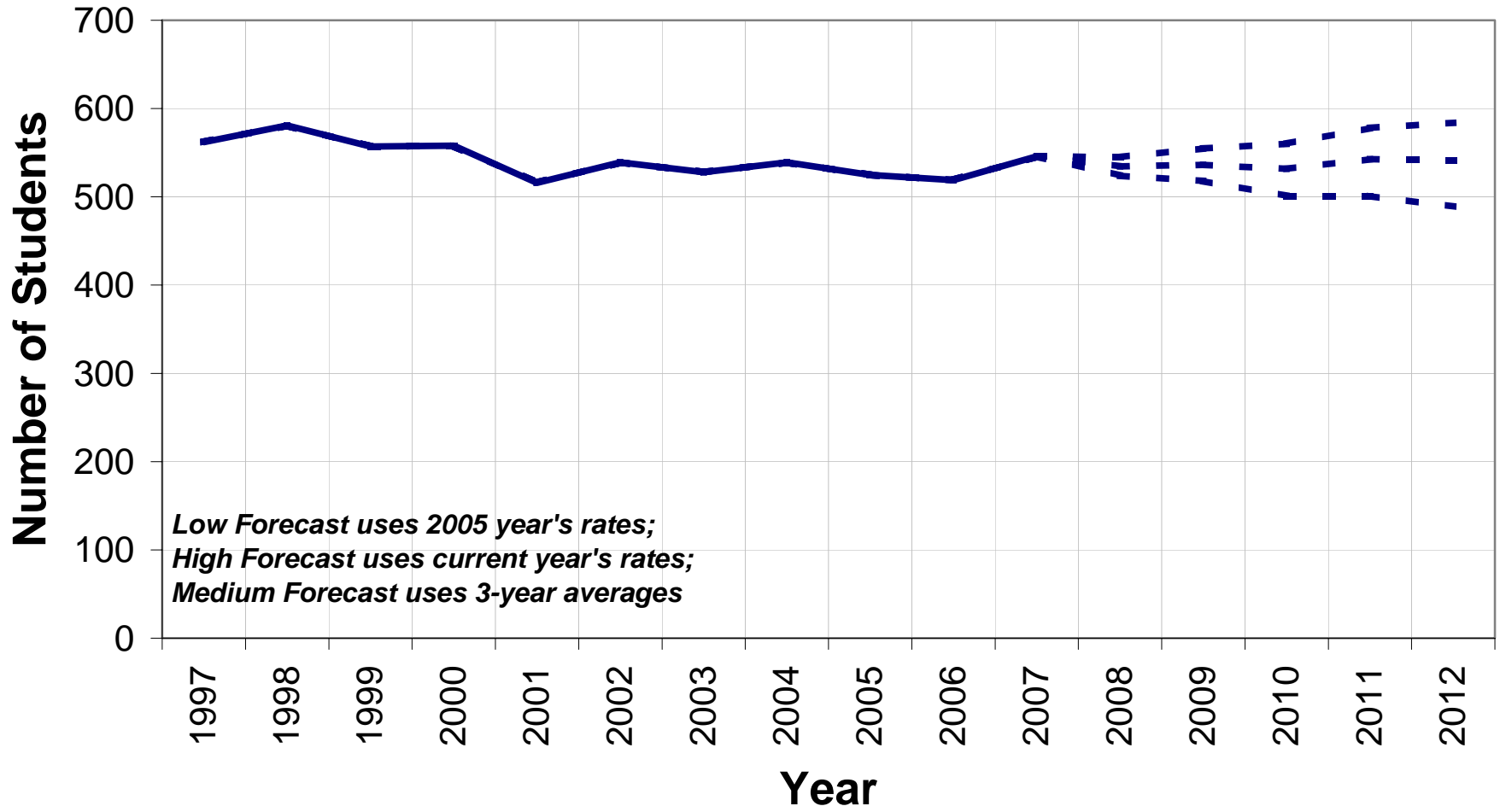
# Earhart Elementary Grade Progressions Summarized

## Grades K to 4 into Grades 1 to 5

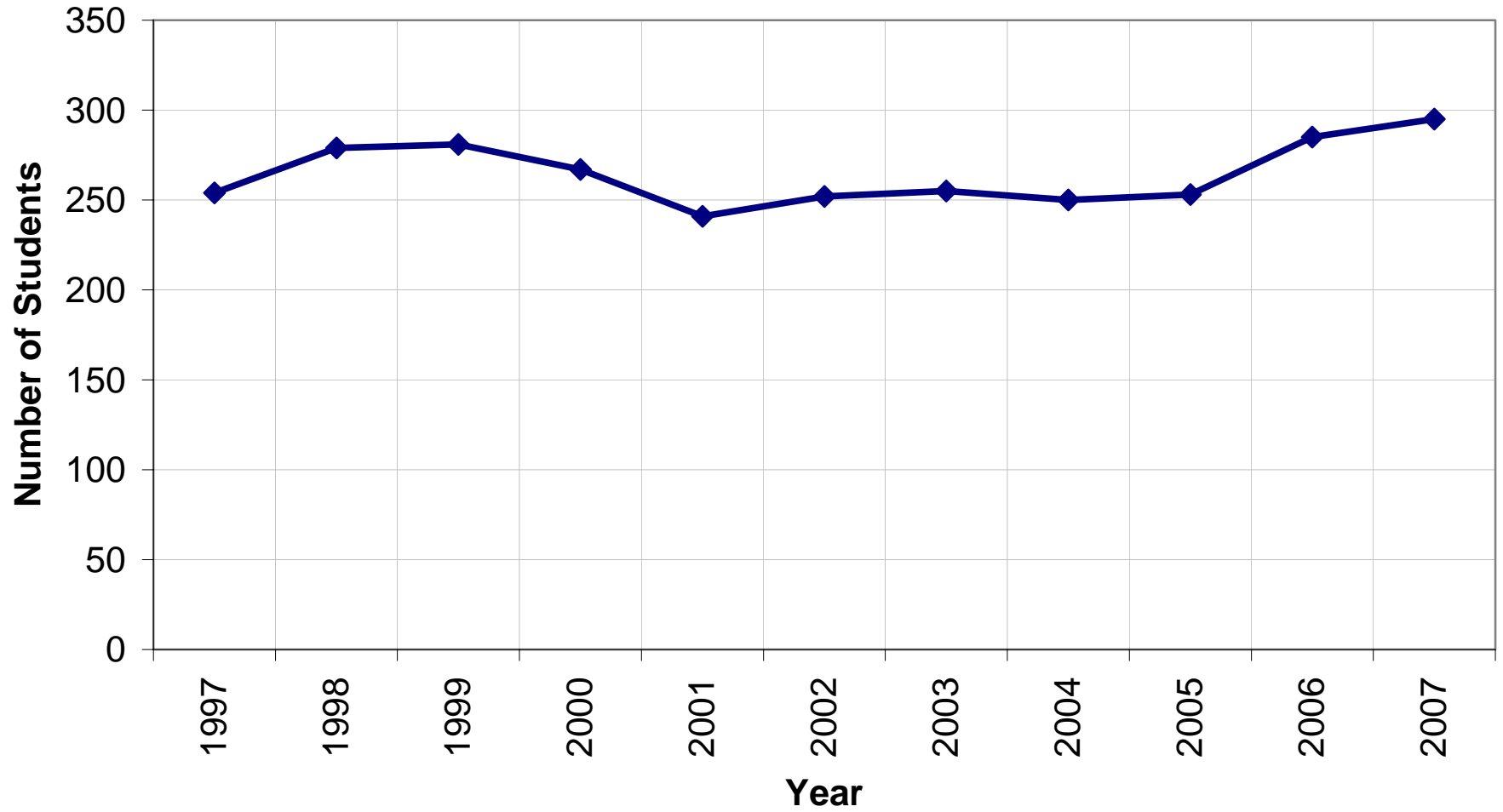
Hillary Way effect taken out



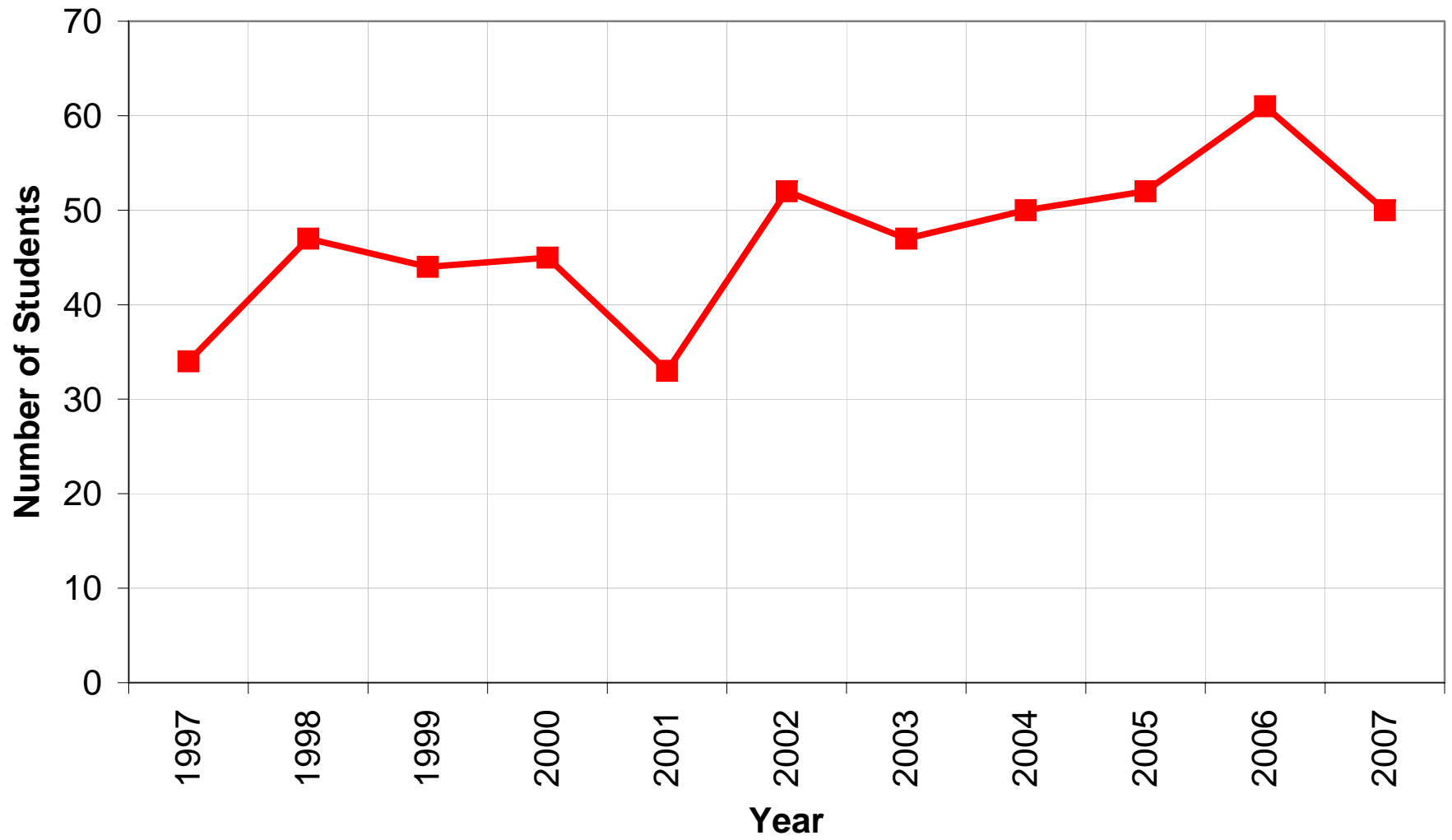
# K to 5 Residents Earhart



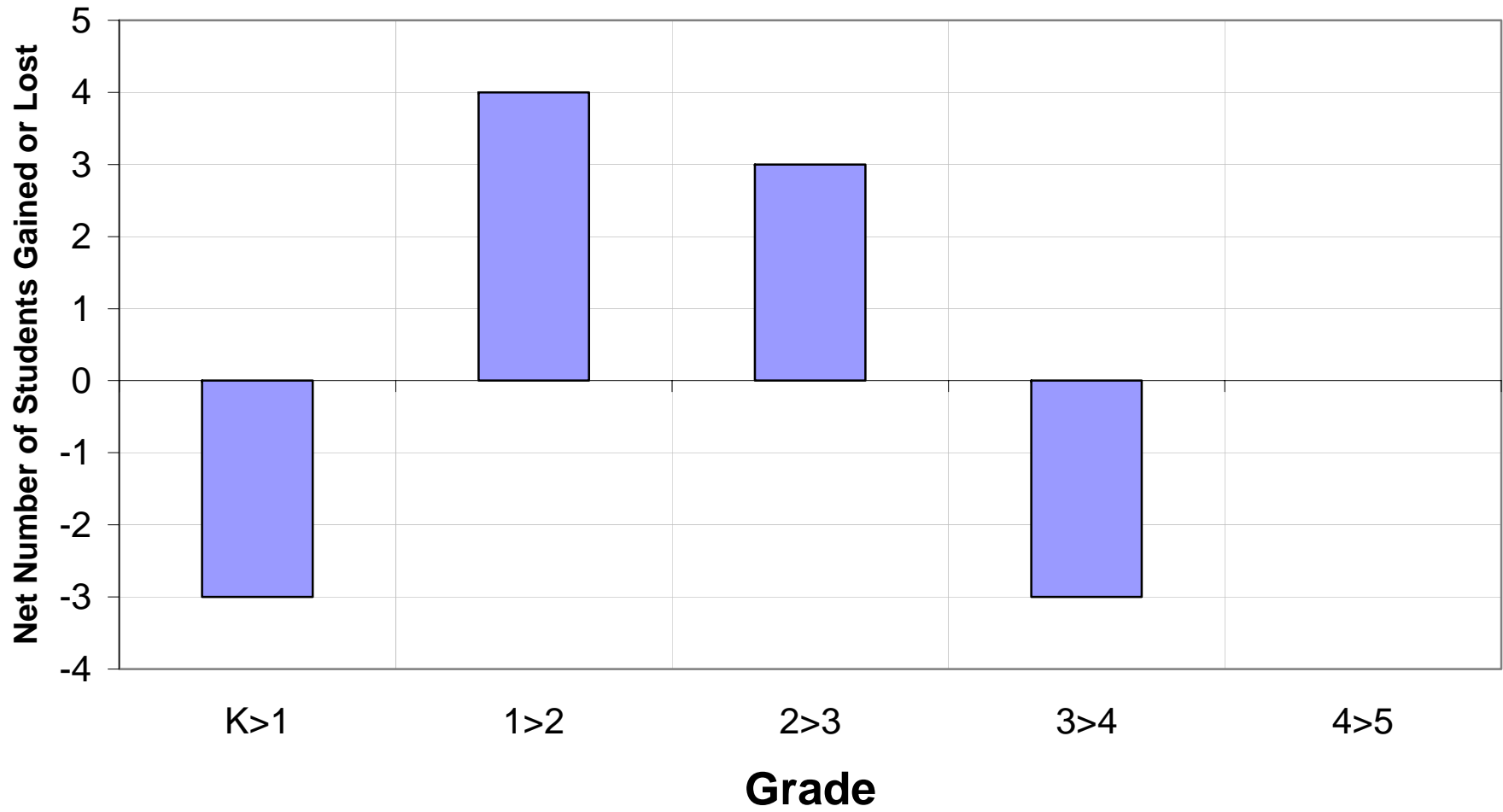
## K to 5 Residents Franklin



## Franklin Residents' Kindergartners

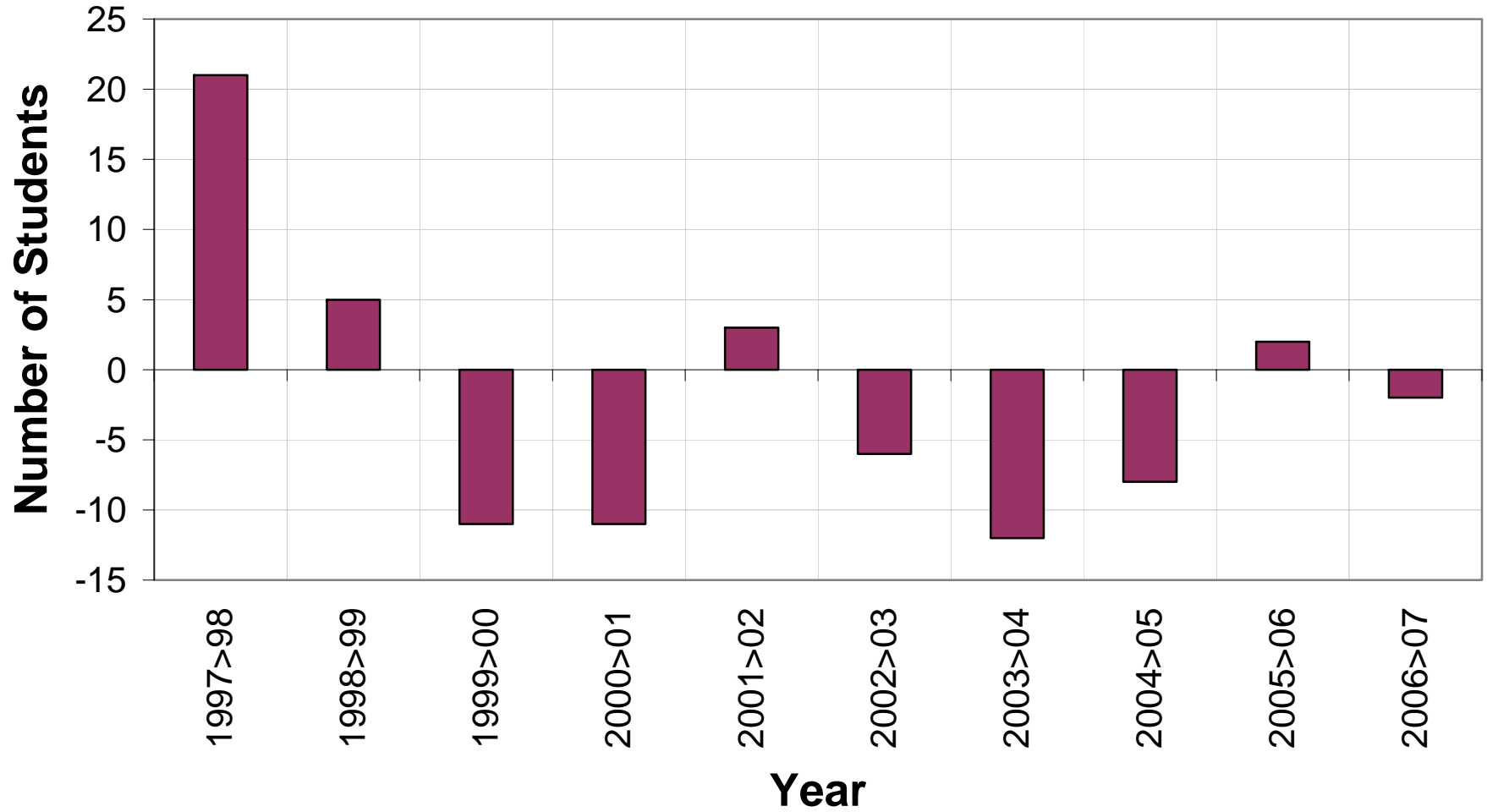


## Franklin's Grade Progressions between Fall 2006 and Fall 2007



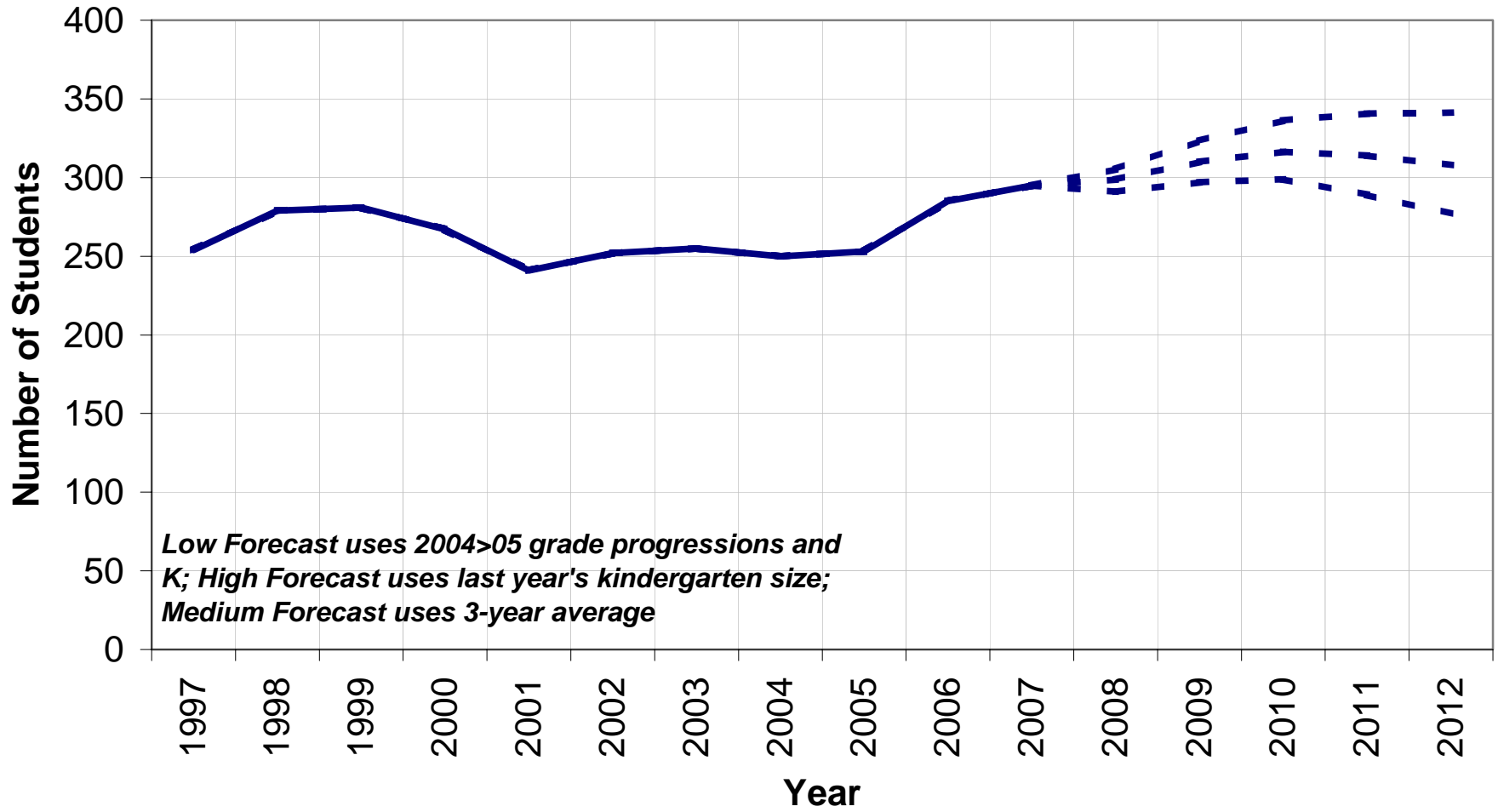
# Franklin Elem. Grade Progressions Summarized

## Grades K to 4 into Grades 1 to 5

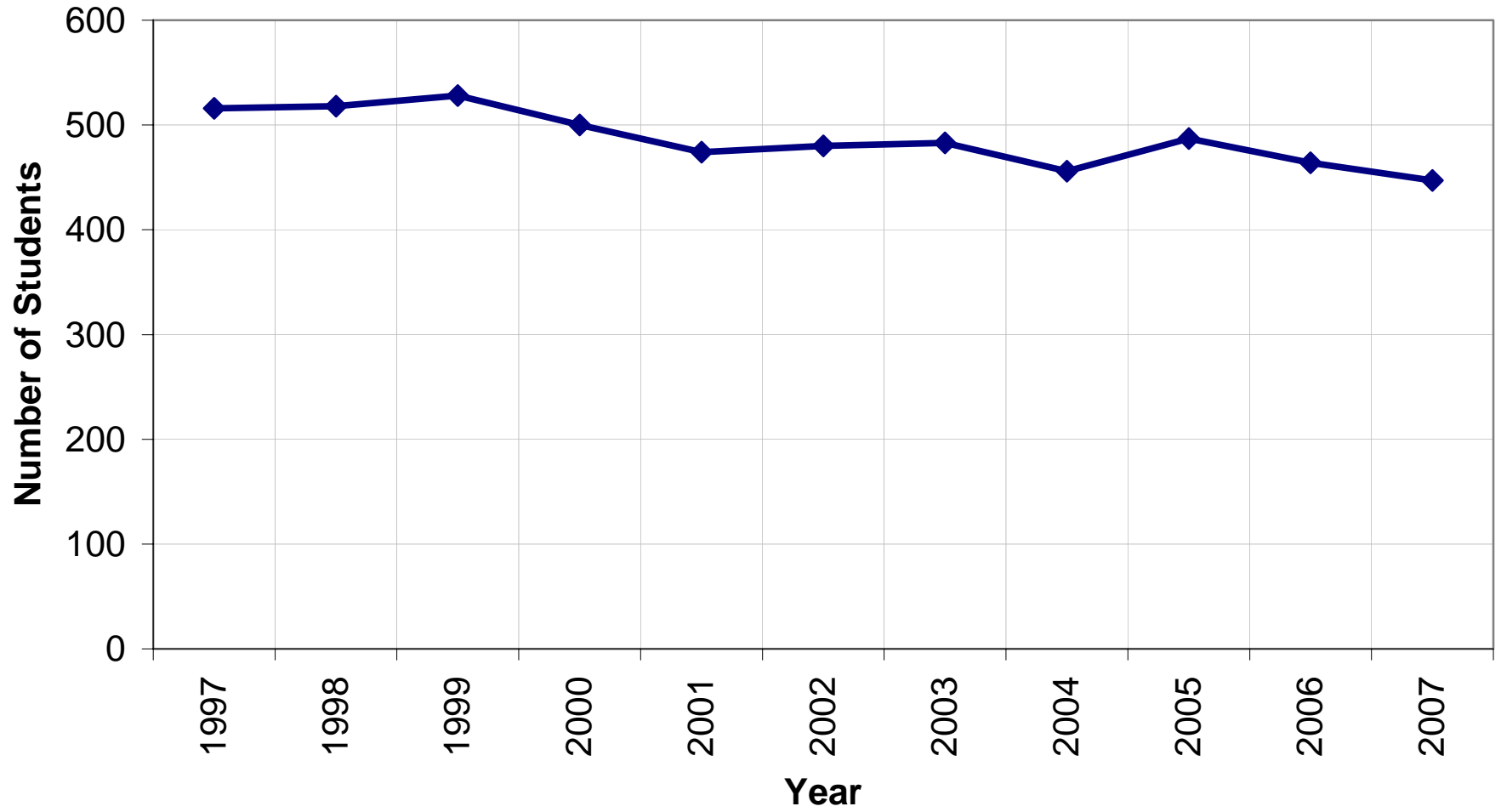




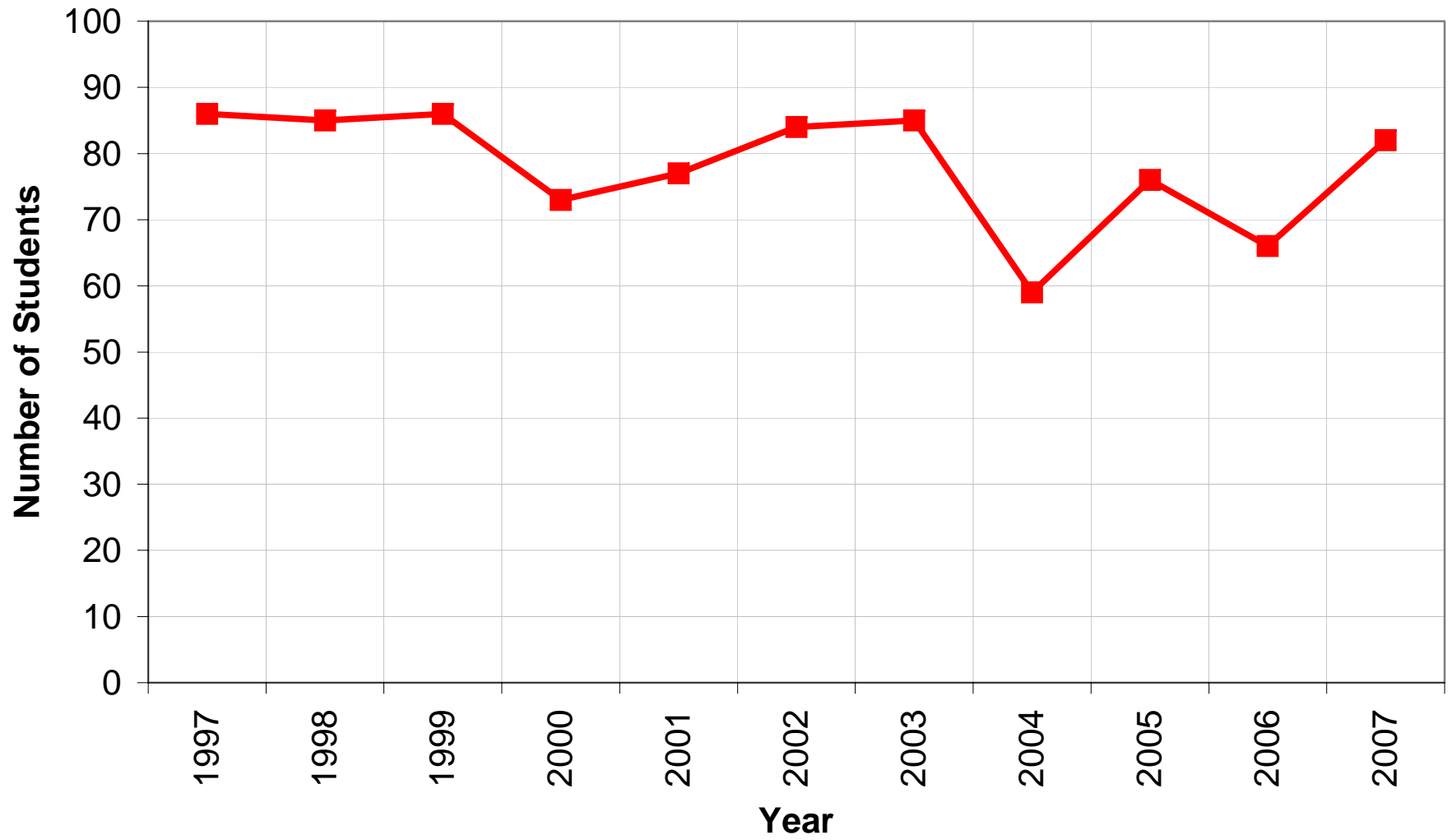
# K to 5 Residents Franklin



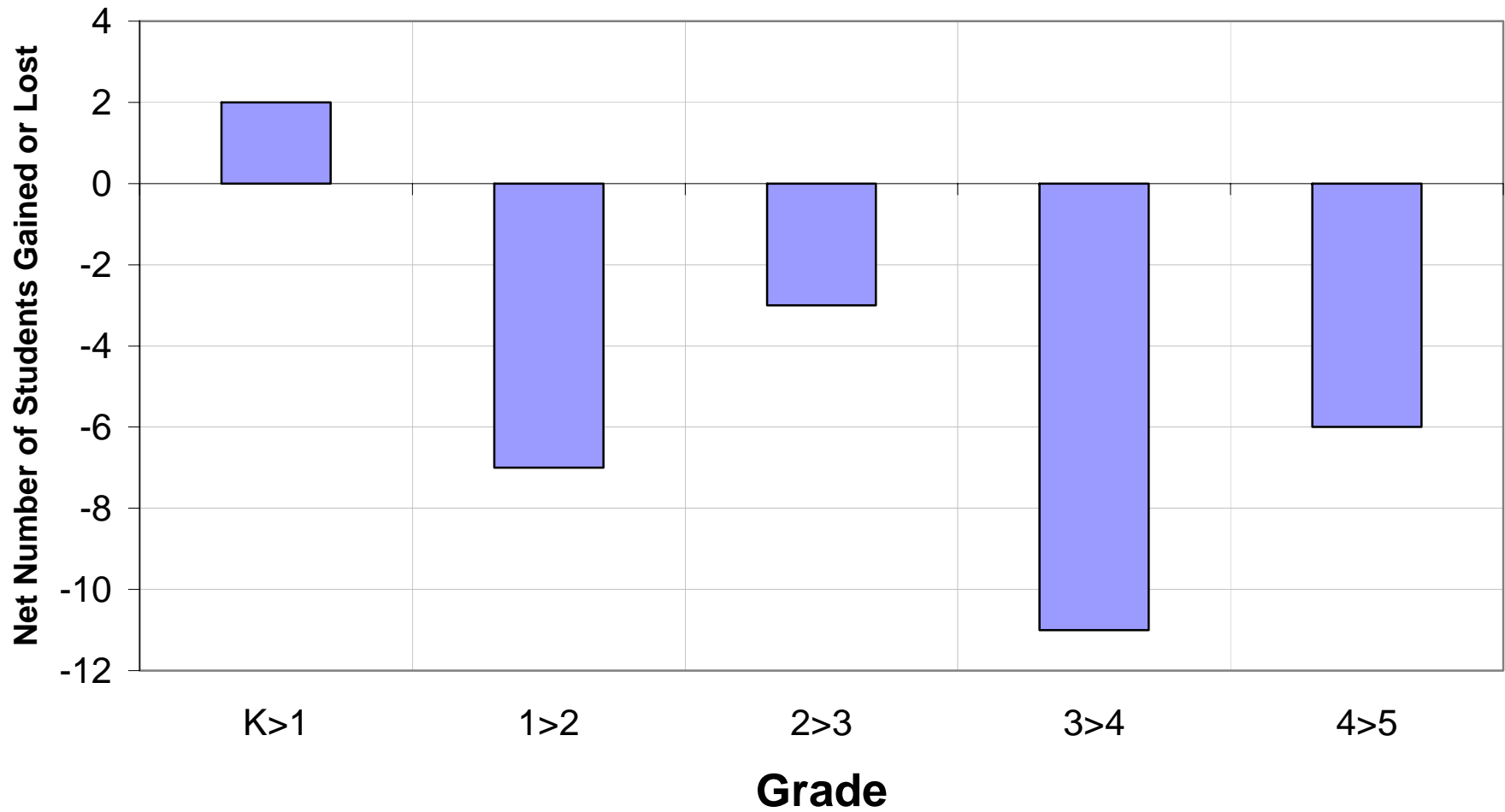
## K to 5 Residents Lum



## Lum Residents' Kindergartners

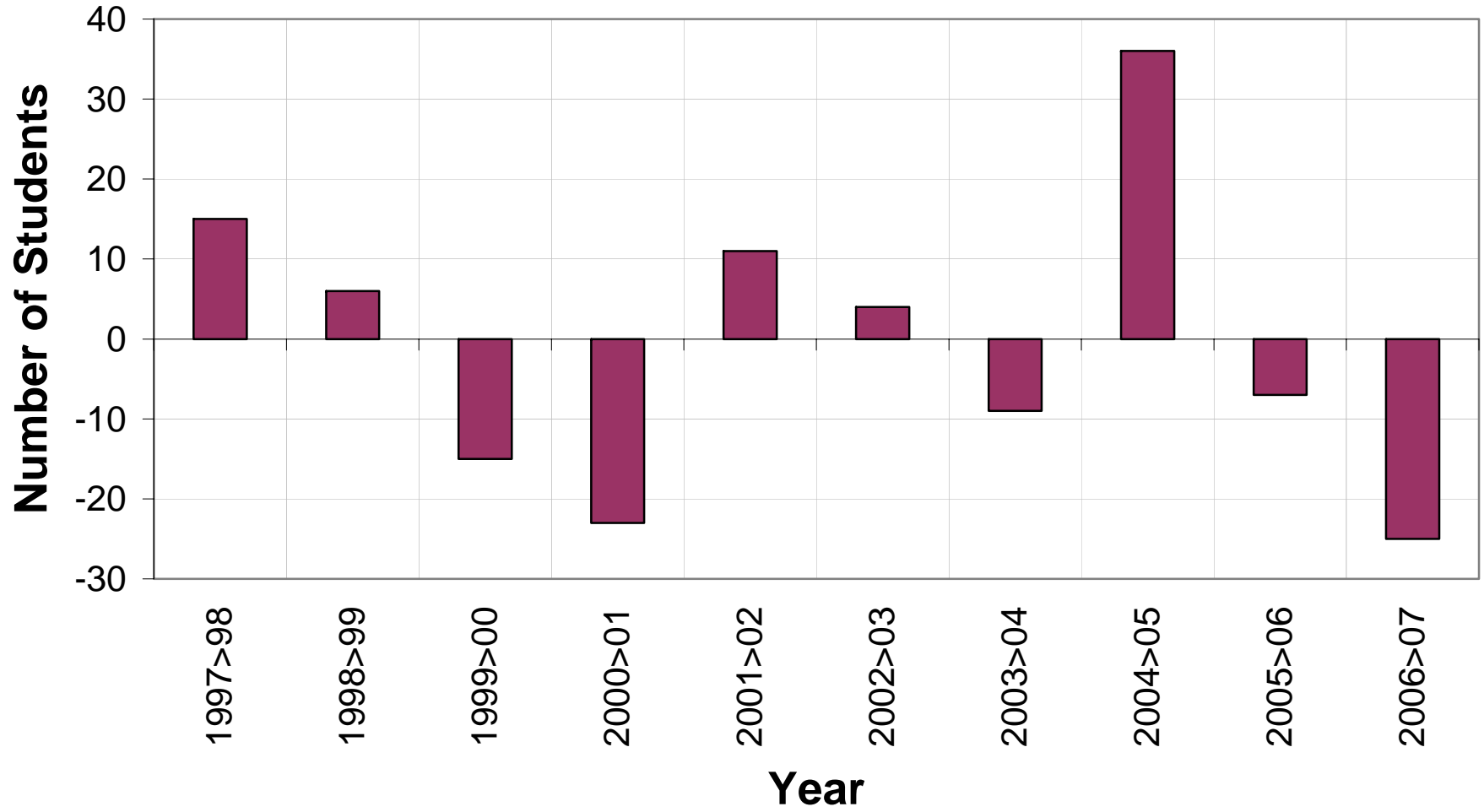


## Lum's Grade Progressions between Fall 2006 and Fall 2007

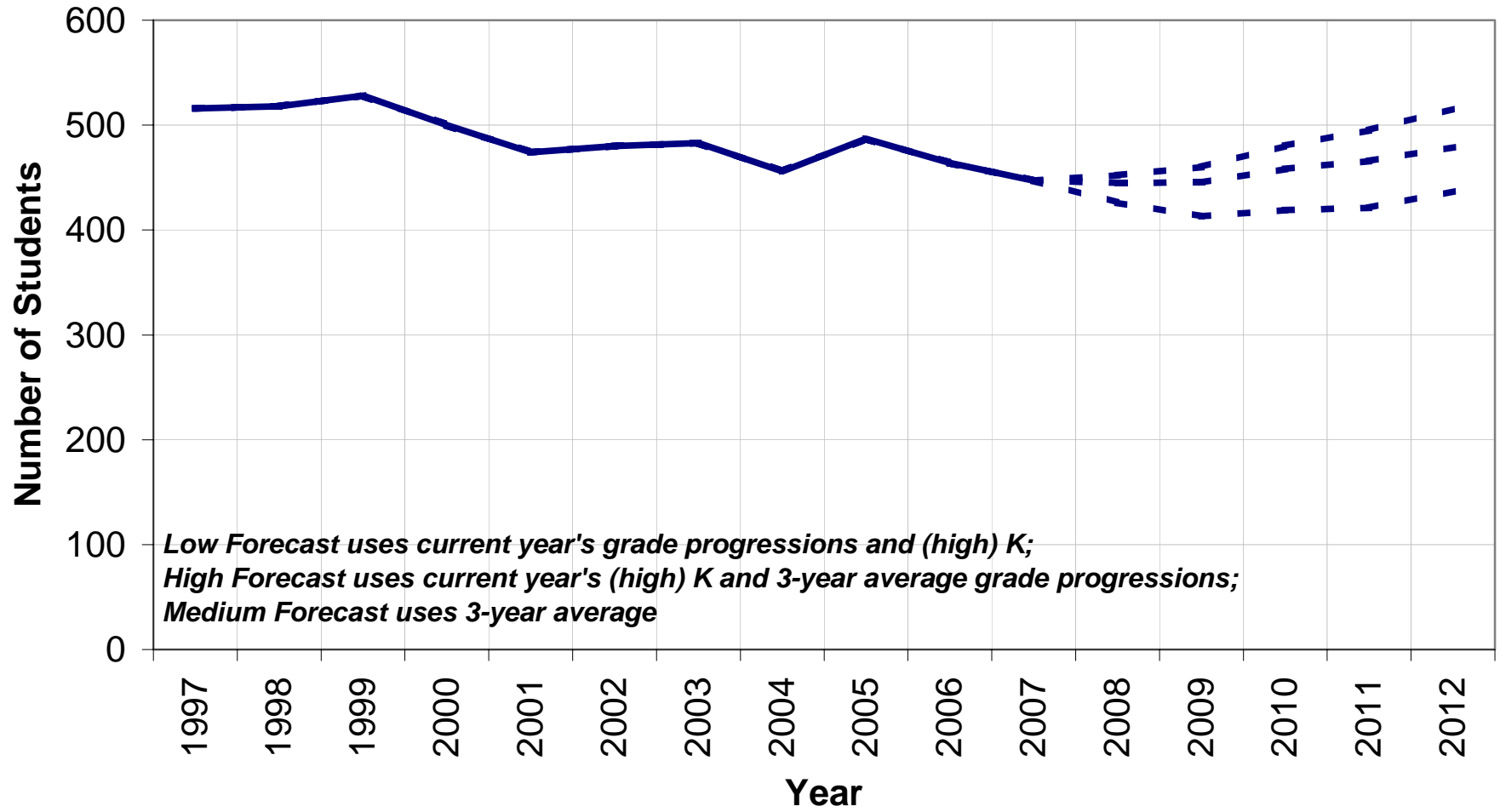


# Lum Elementary Grade Progressions Summarized

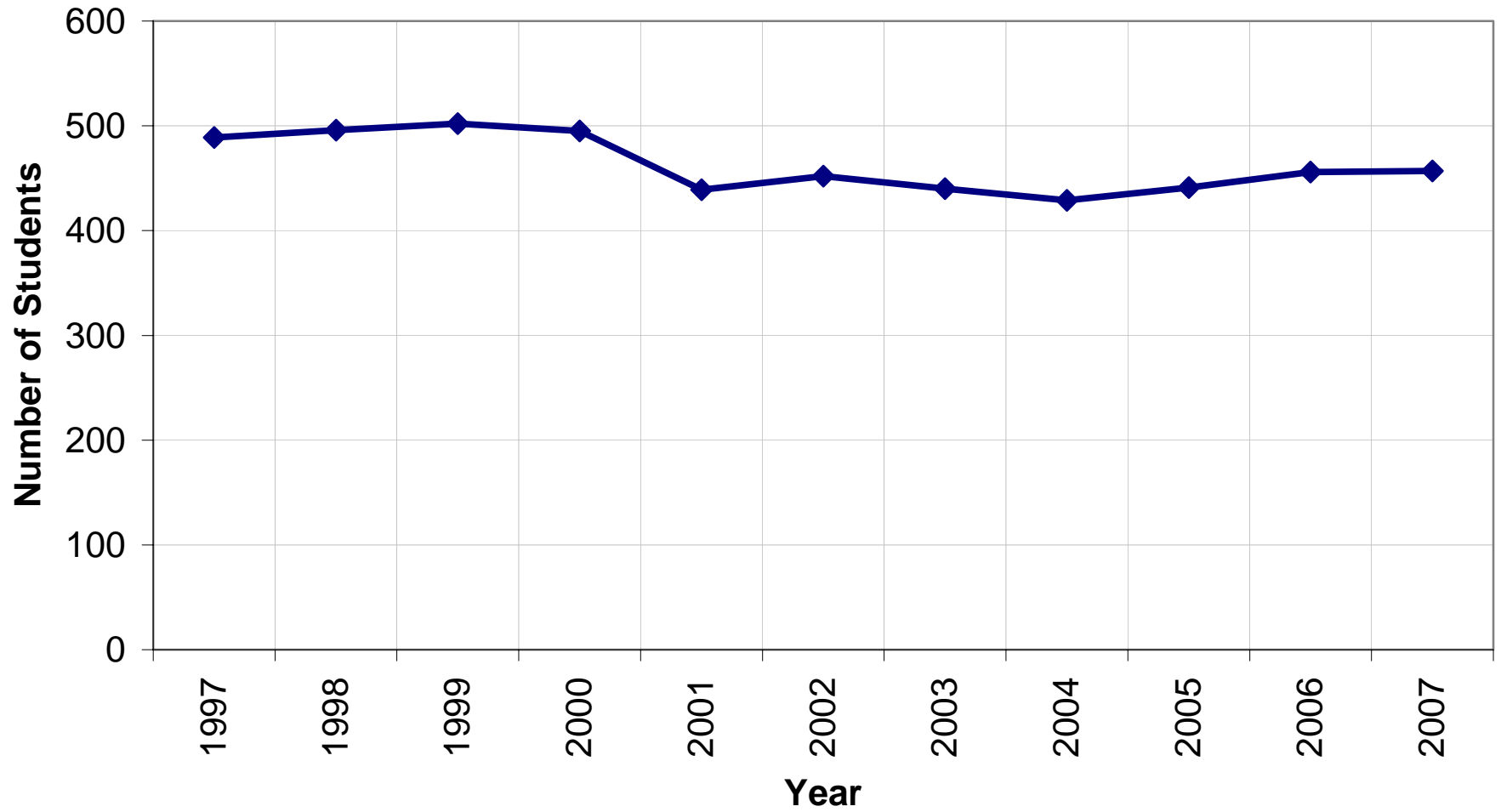
## Grades K to 4 into Grades 1 to 5



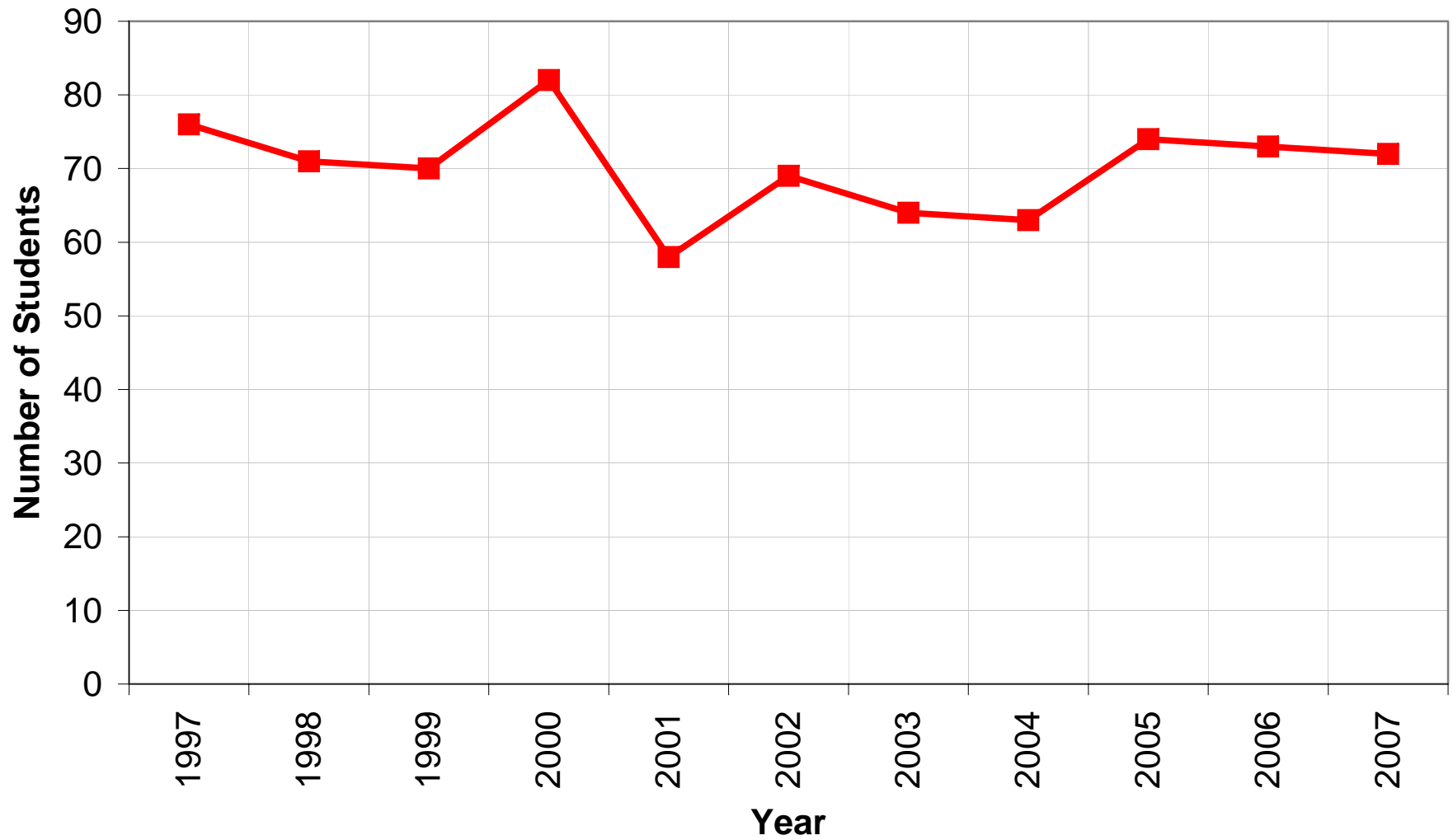
# K to 5 Residents Lum



## K to 5 Residents (Center Line) Otis

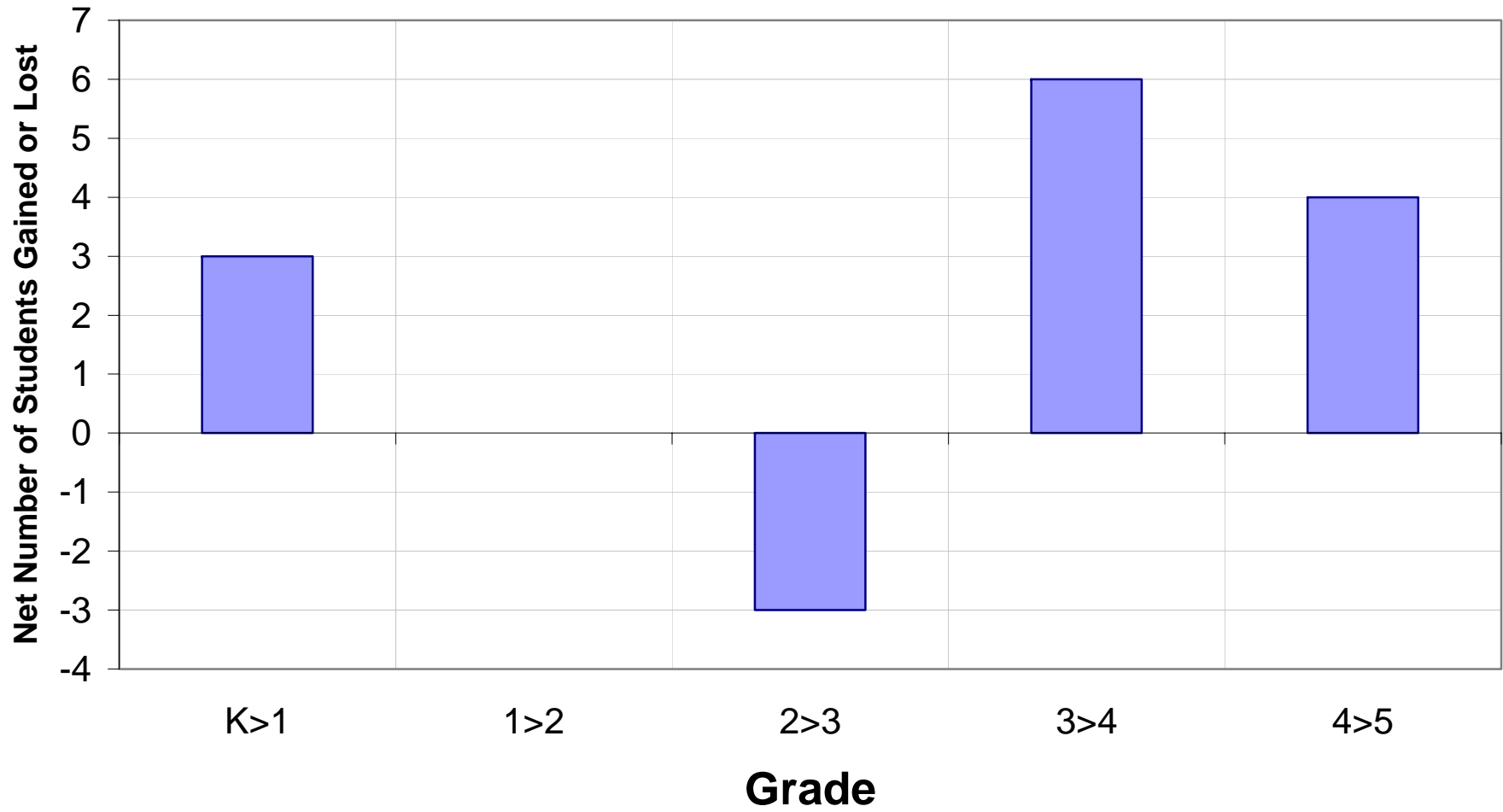


## Otis Residents' Kindergarten Enrollment (center line)



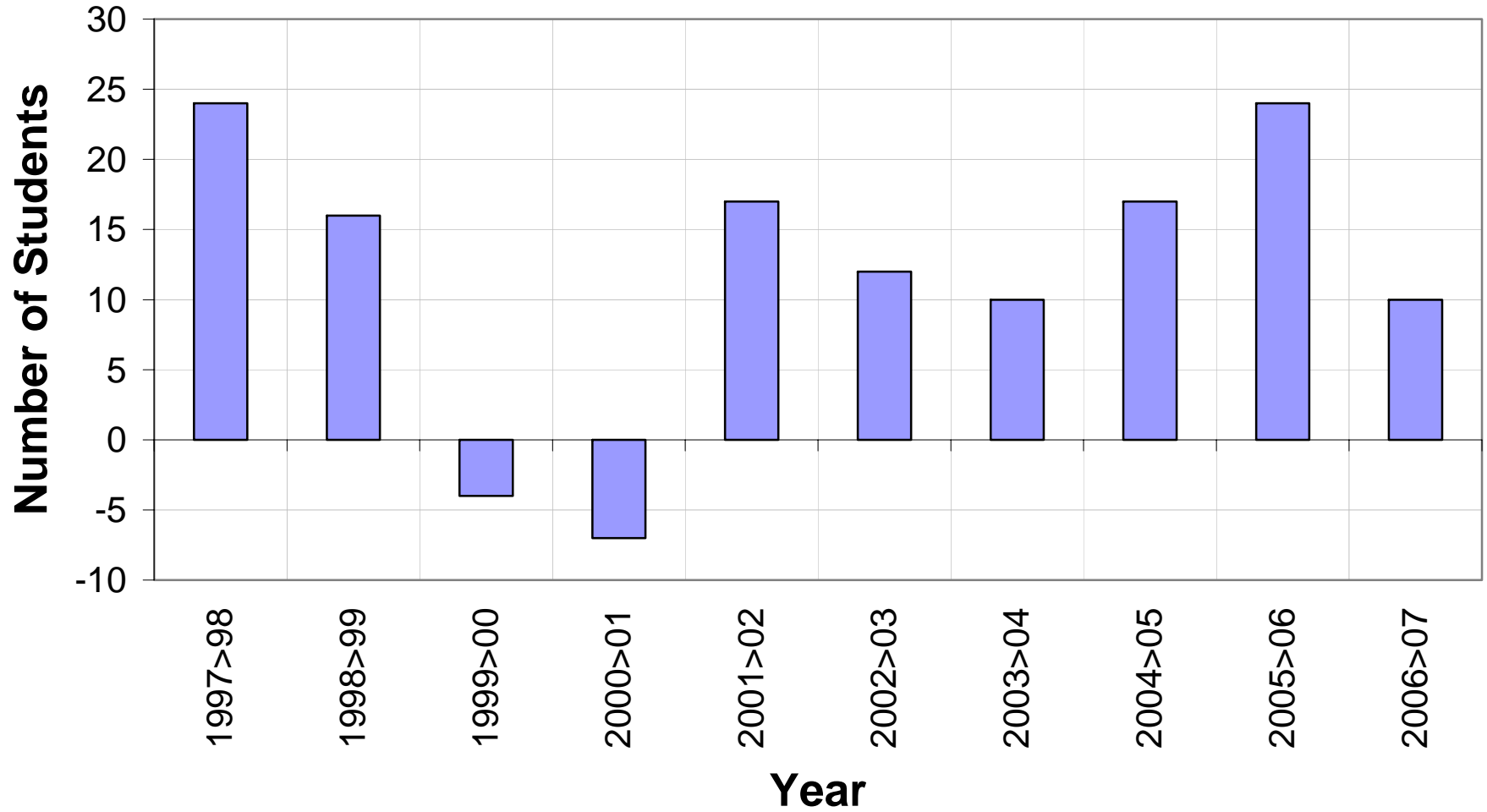


## Otis' Grade Progressions between Fall 2006 and Fall 2007

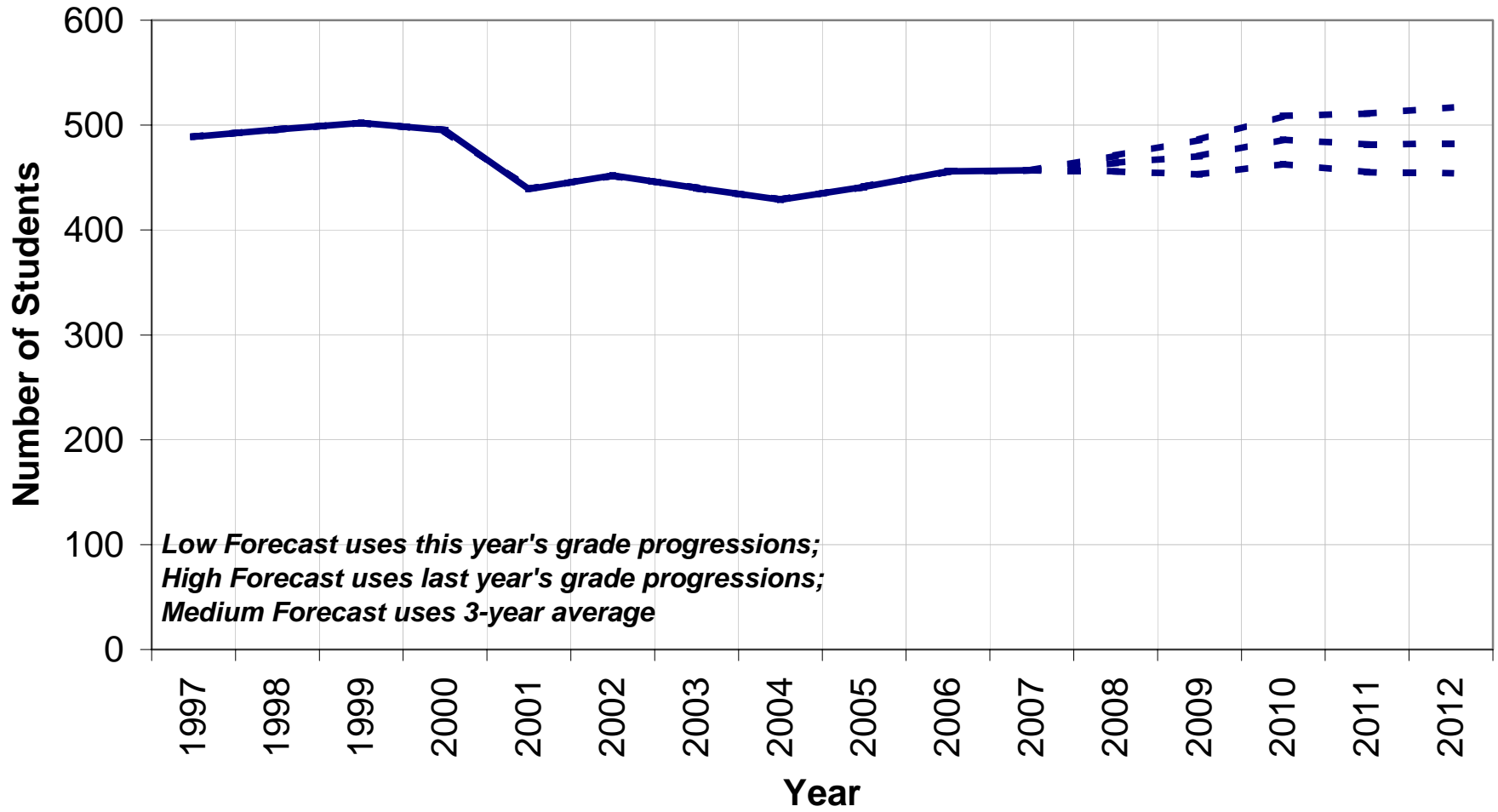


# Otis' Elementary Grade Progressions Summarized

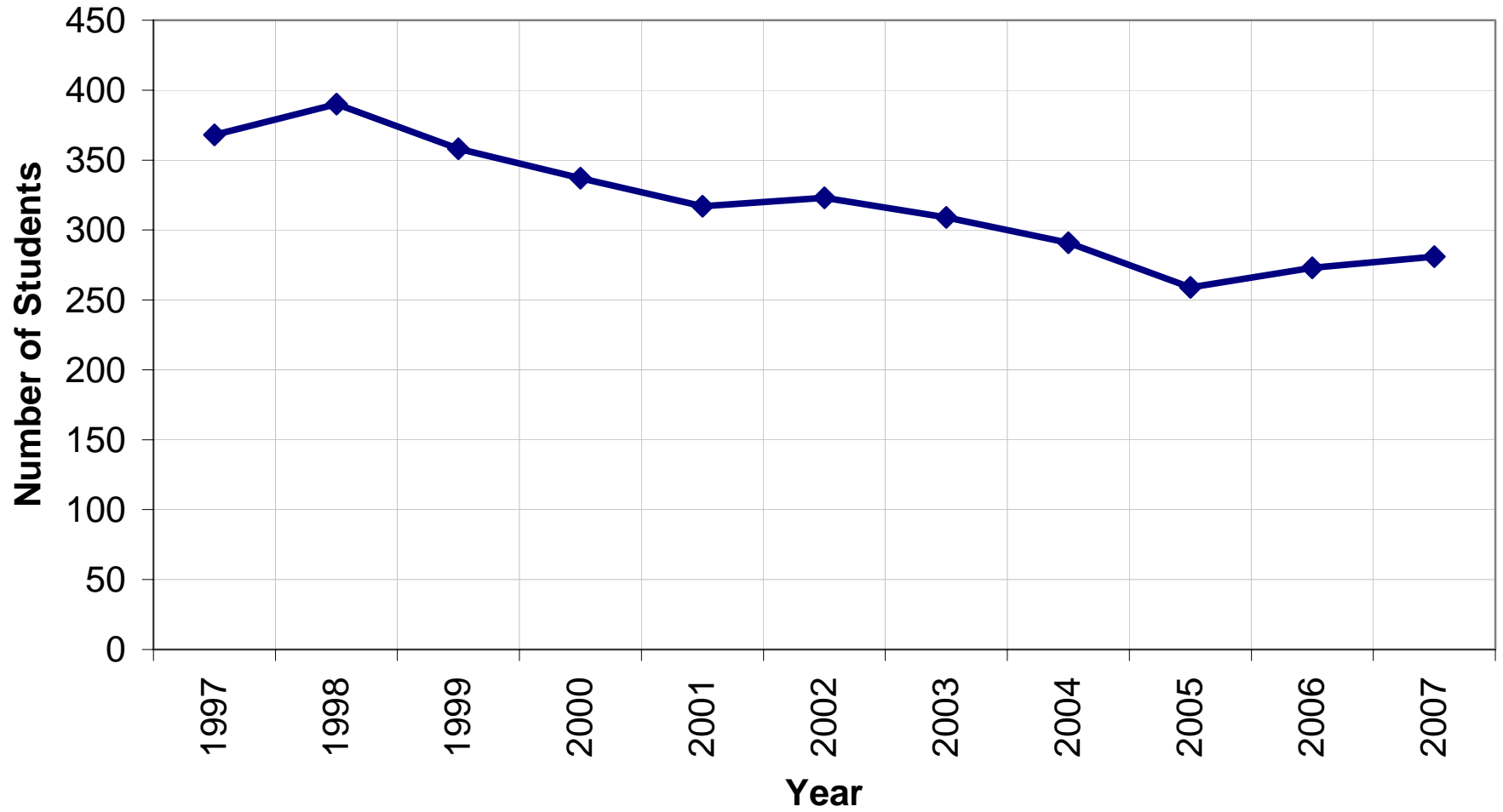
## Grades K to 4 into Grades 1 to 5



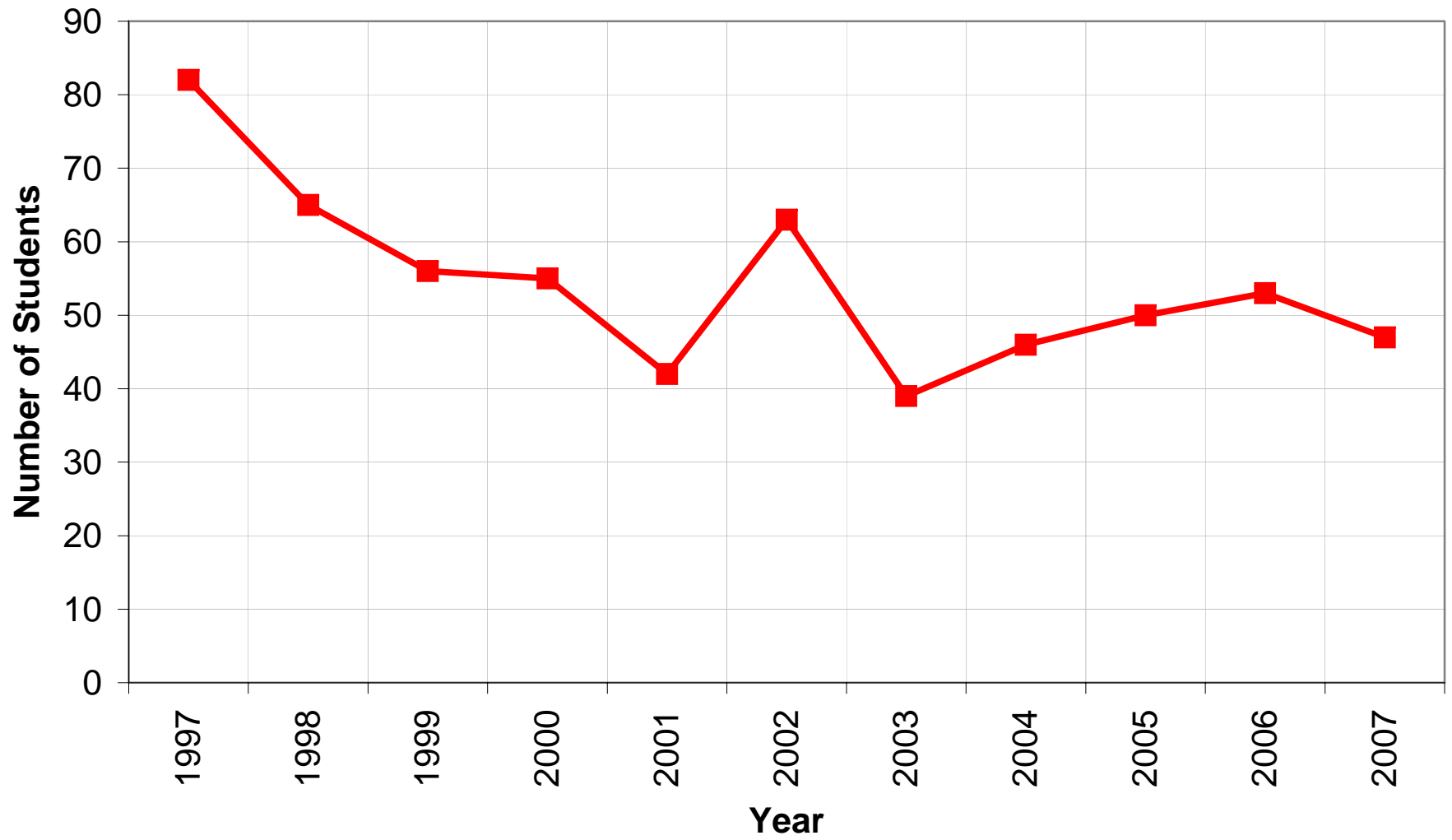
# K to 5 Residents (Center Line) Otis



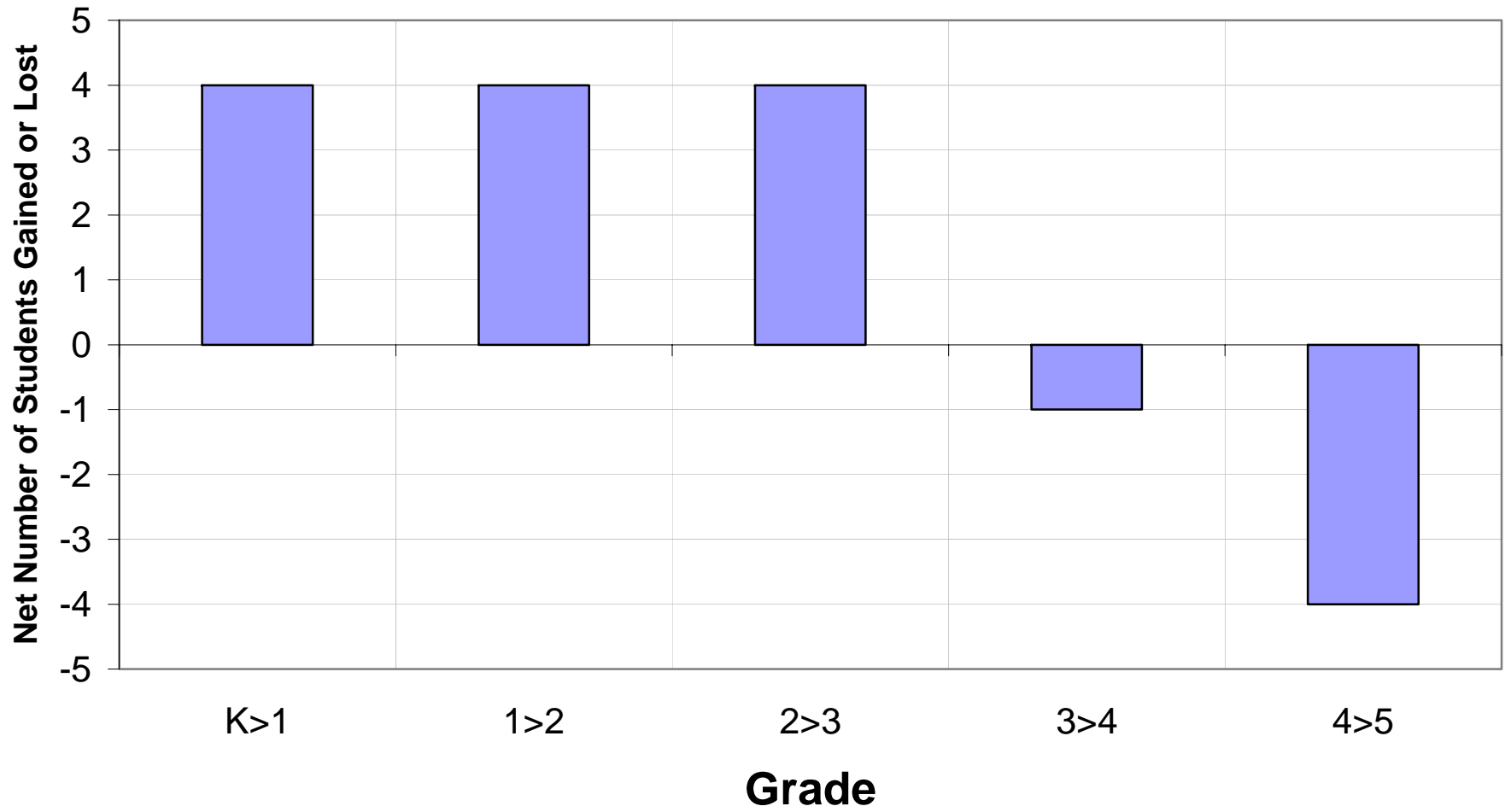
## K to 5 Residents Paden



## Paden Residents' Kindergartners

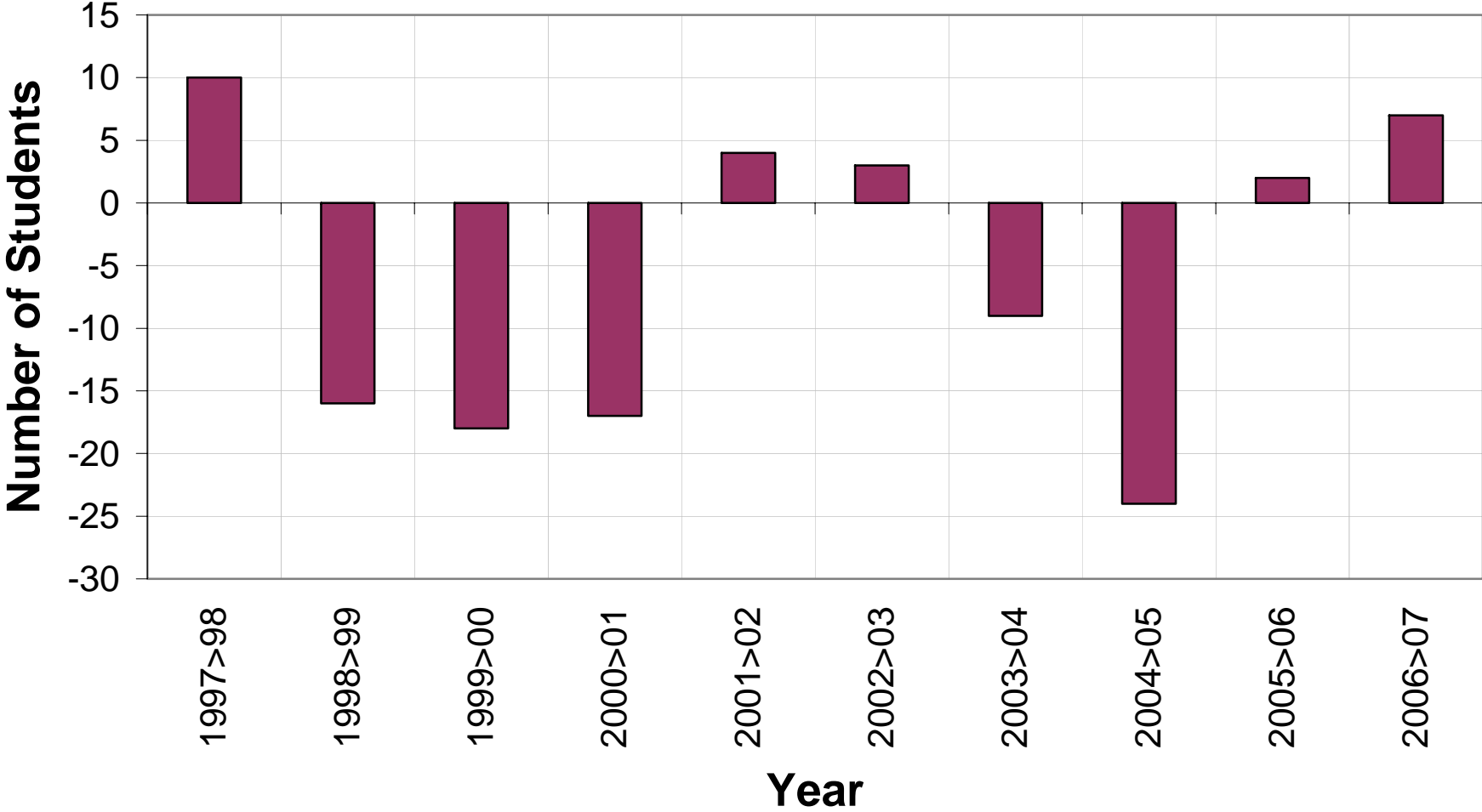


## Paden's Grade Progressions between Fall 2006 and Fall 2007

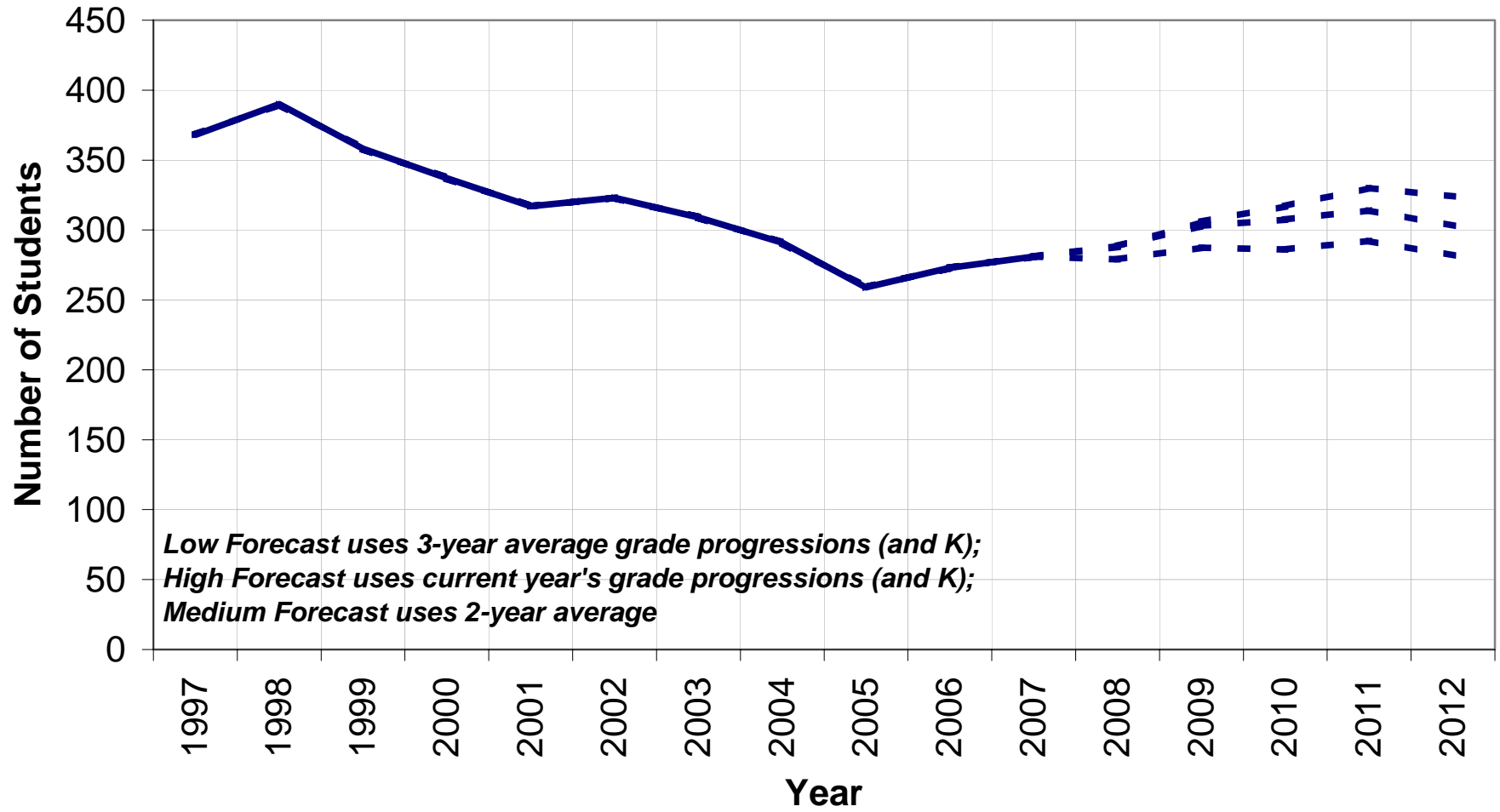


# Paden Elementary Grade Progressions Summarized

## Grades K to 4 into Grades 1 to 5

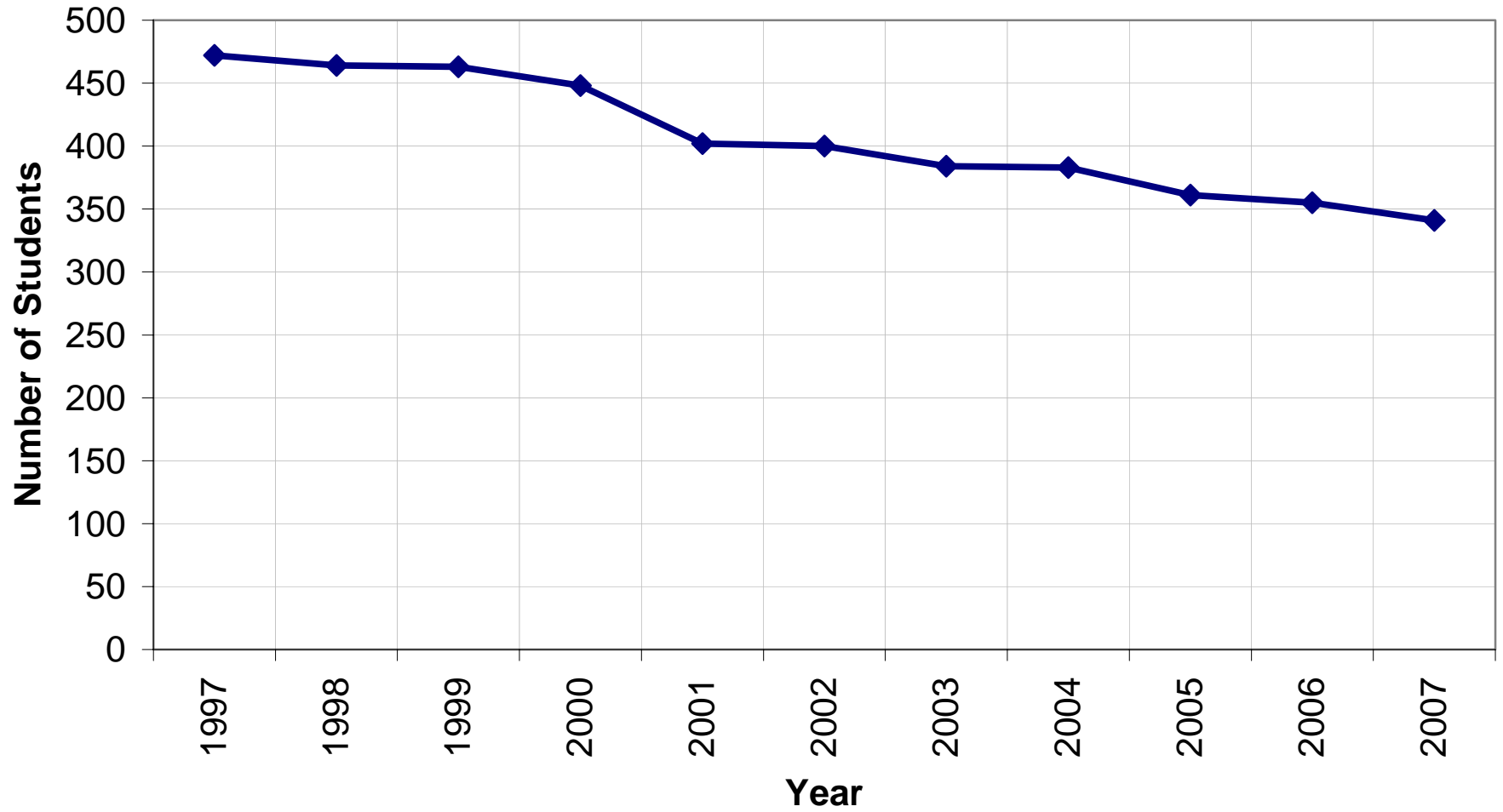


# K to 5 Residents Paden

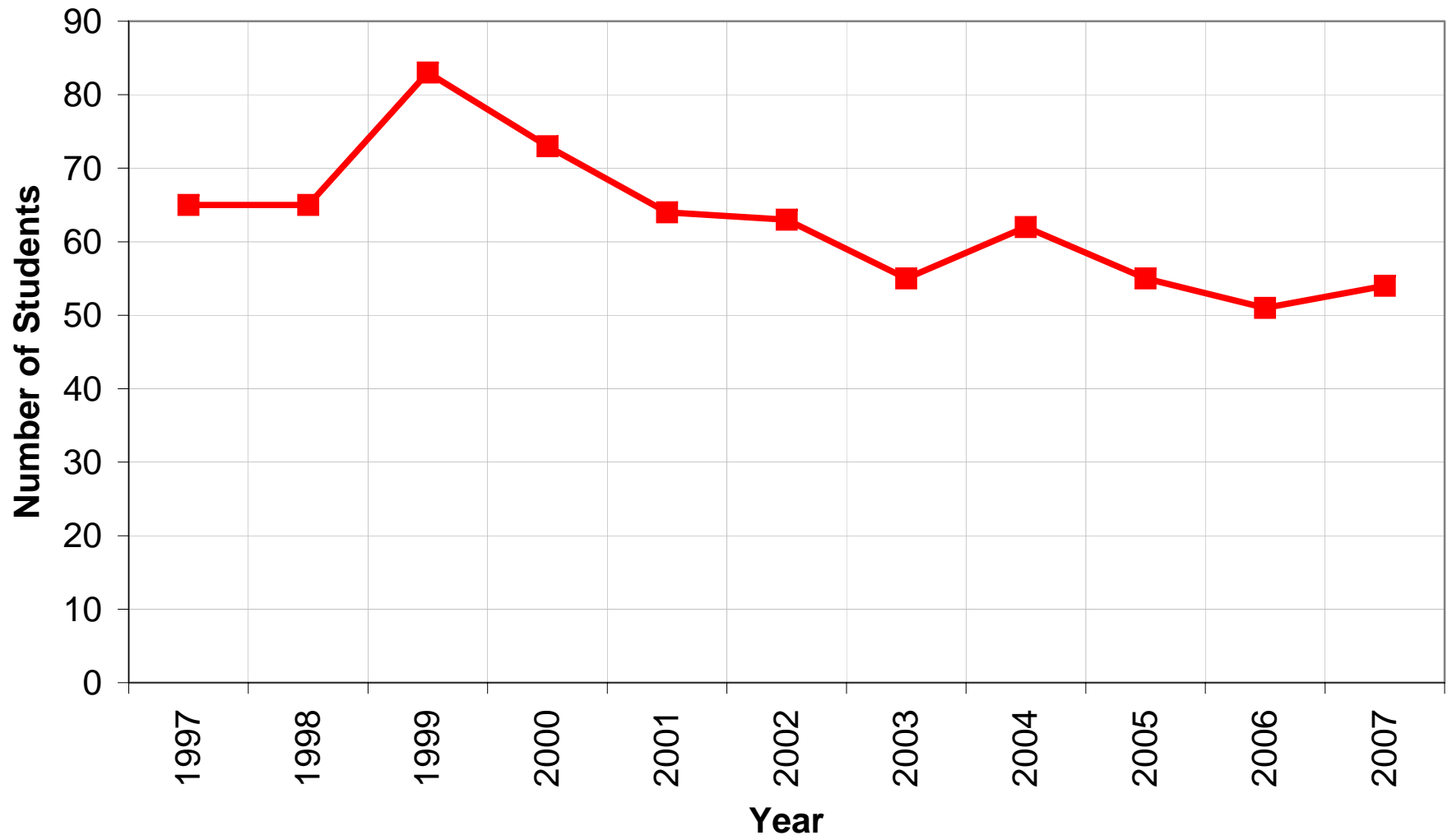




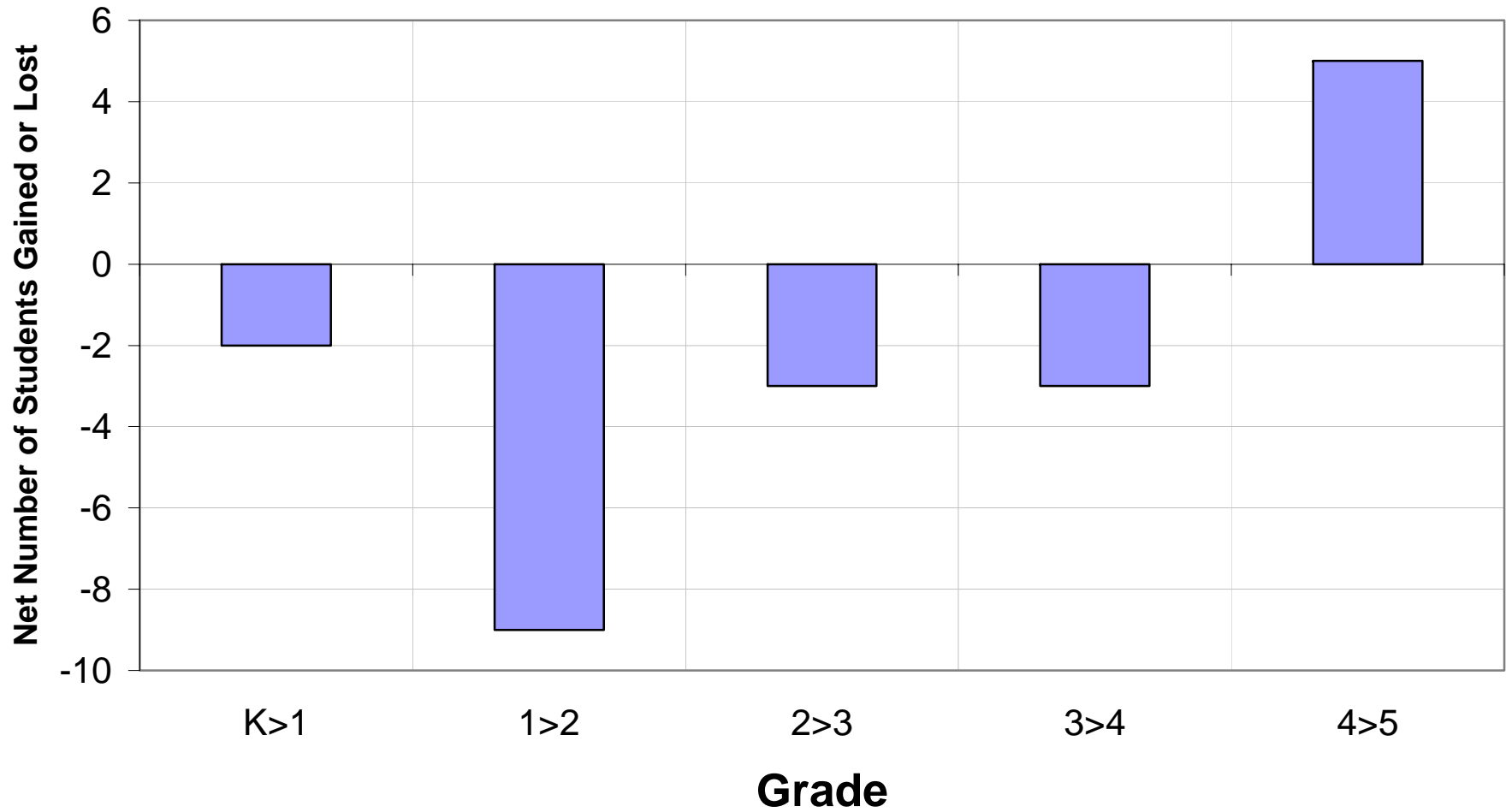
## K to 5 Residents Washington



## Washington Residents' Kindergartners

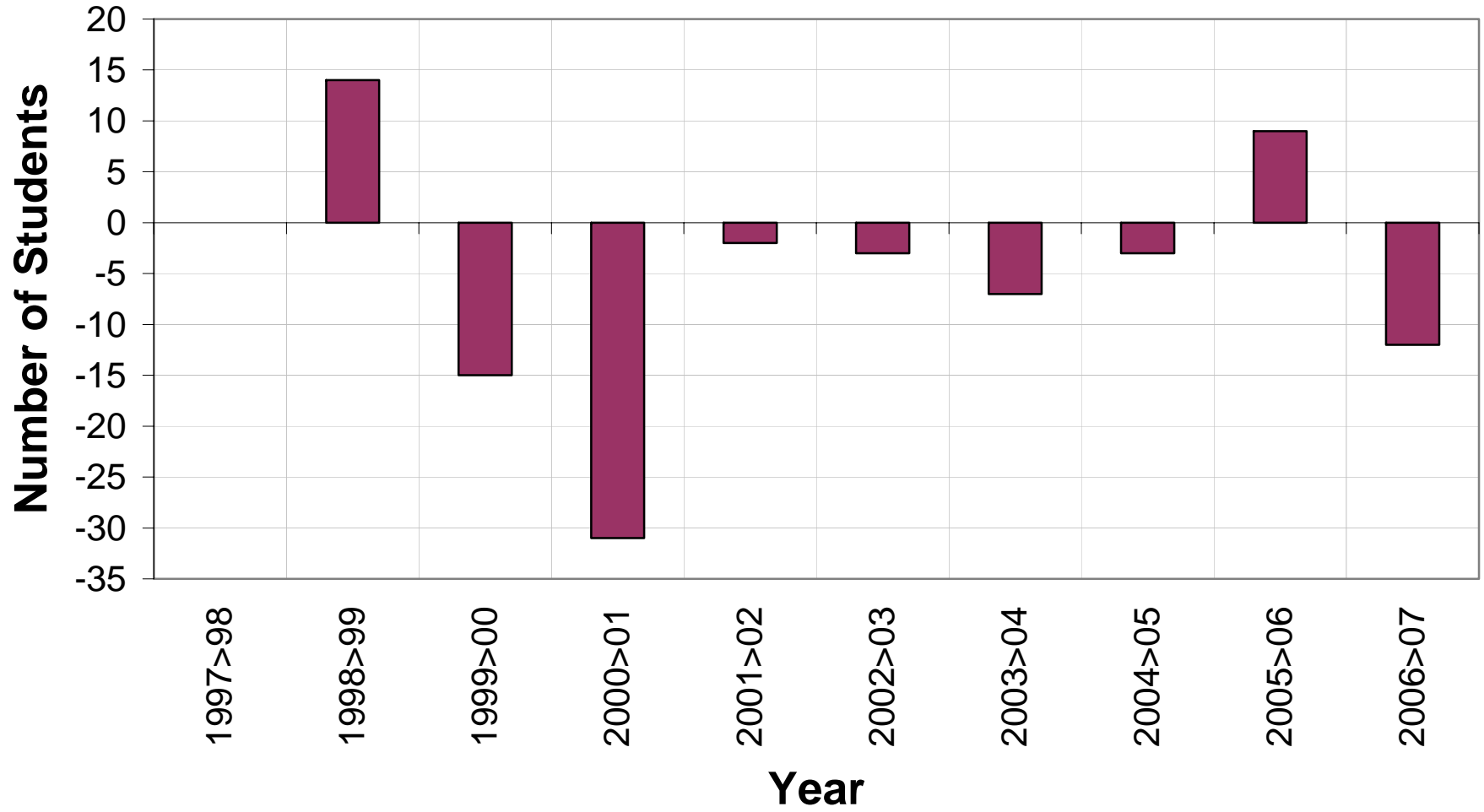


## Washington's Grade Progressions between Fall 2006 and Fall 2007



# Washington Elem. Grade Progressions Summarized

## Grades K to 4 into Grades 1 to 5



# K to 5 Residents Washington

