



Can We Get There From Here?

A presentation to
Florida School Finance
Officers Association
Fall Conference

November
14, 2003



Future ?

Future ?

You
Are
here

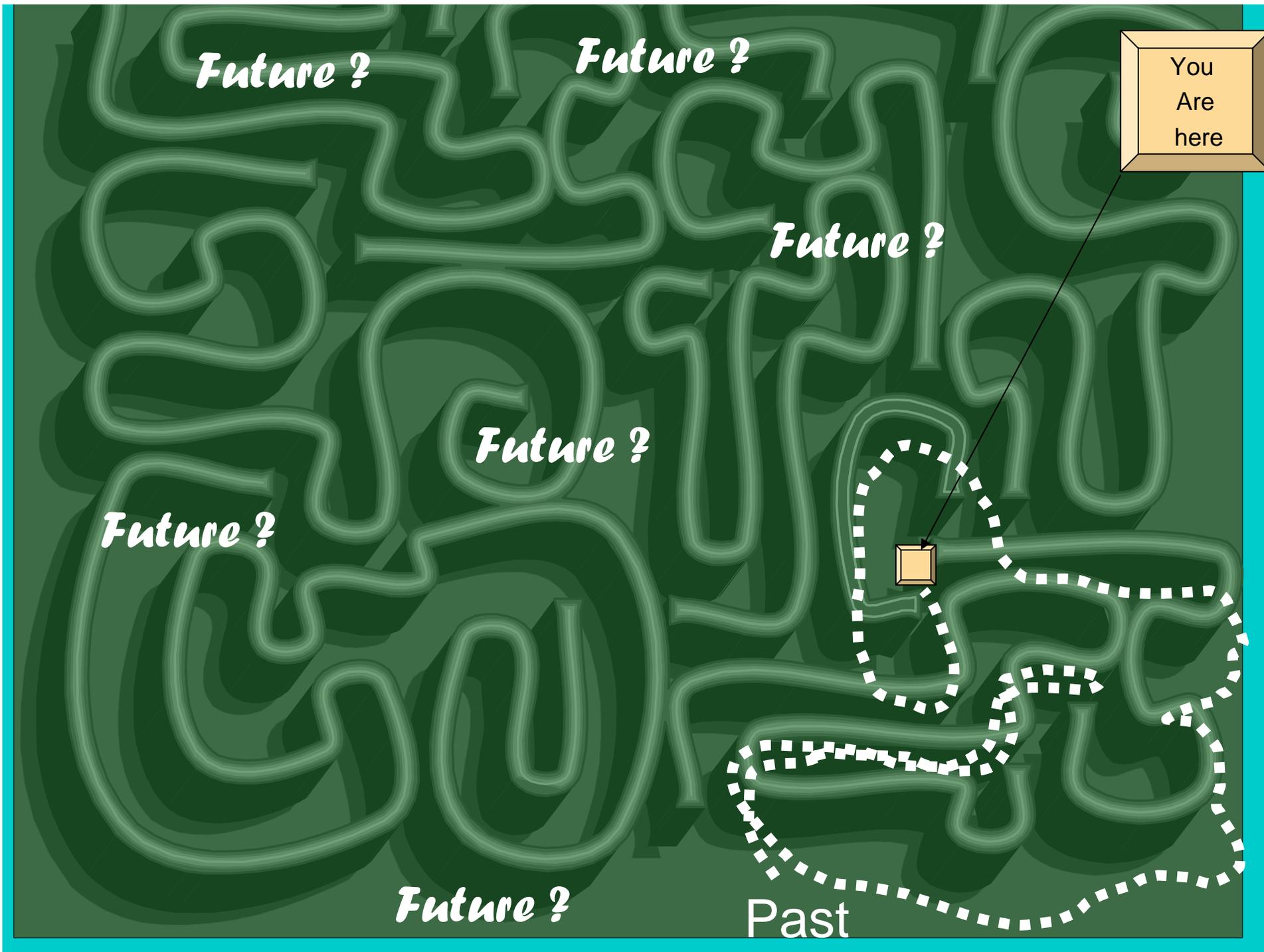
Future ?

Future ?

Future ?

Future ?

Past



You Are Here

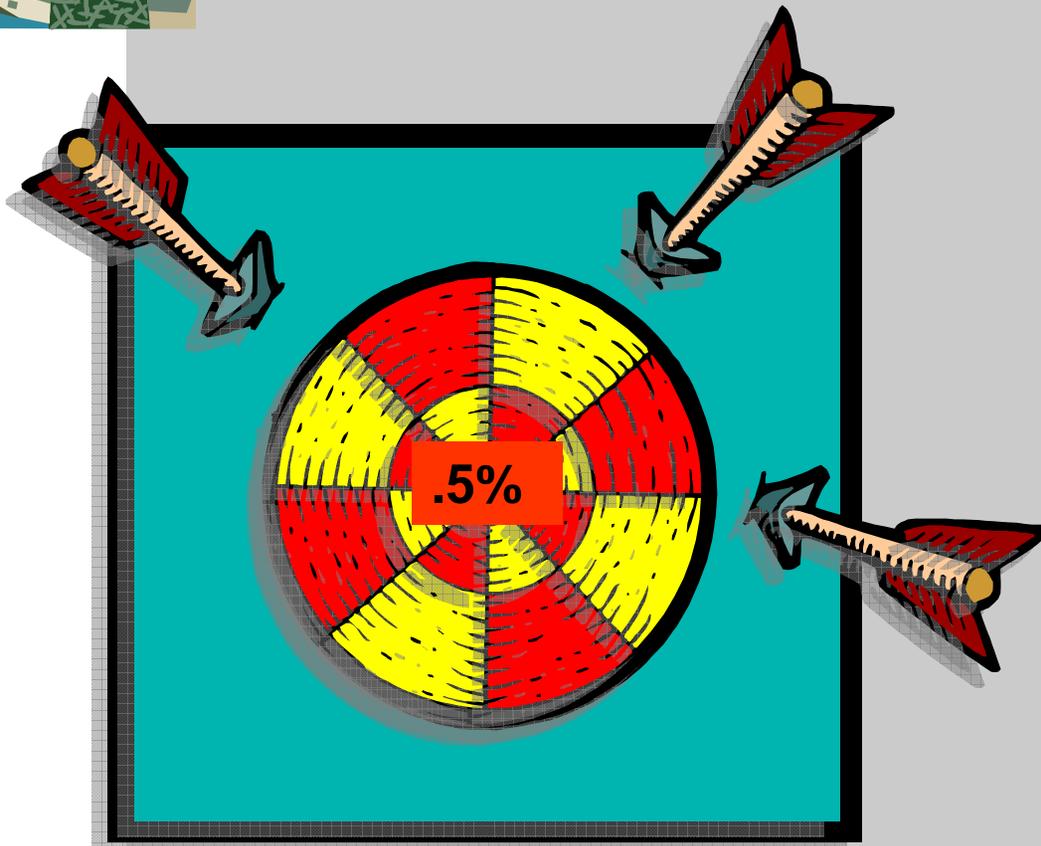
More students enroll in Florida Schools than state lawmakers budgeted for. (Sun-Sentinel)

Florida Department of Education spokeswoman Francis Marine said forecasting student enrollment isn't an exact science. "It's always about 1 percent off...." she said. (Sun-Sentinel)





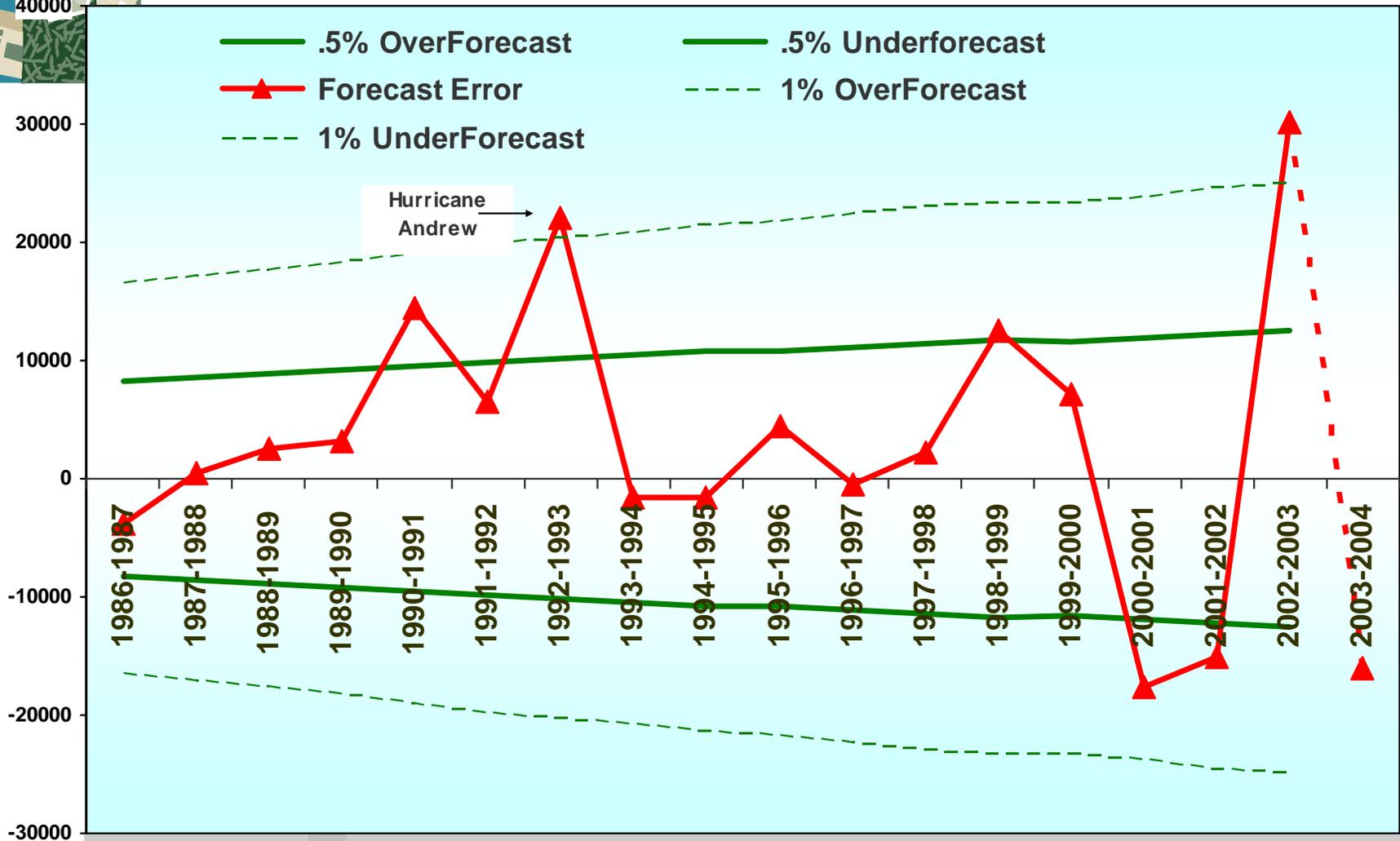
But Accuracy Has Recently Changed



- ◀ The forecast error has been greater than .5% for the past two years and is expected to be so again this year.
- ◀ The actual forecast accuracy has recently changed.



FTE Enrollment Forecast Errors



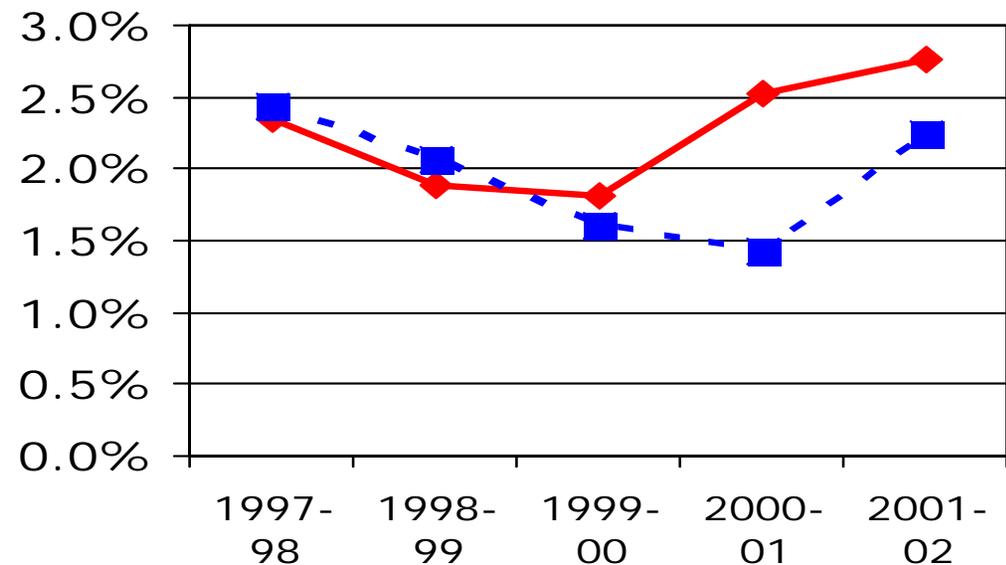


Factors Influencing Patterns Have Different Effects Since 2000-01

Evidence:

Models that have worked very well for many years are now not as accurate.

Percentage Growth



—◆— Actual

- -■- - Model



WHY

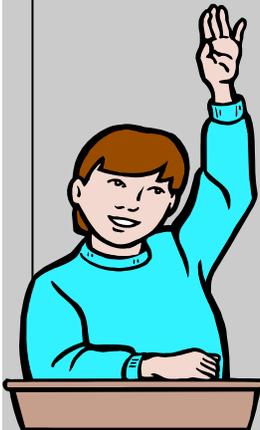


Policy



Economics

Plausible Reasons



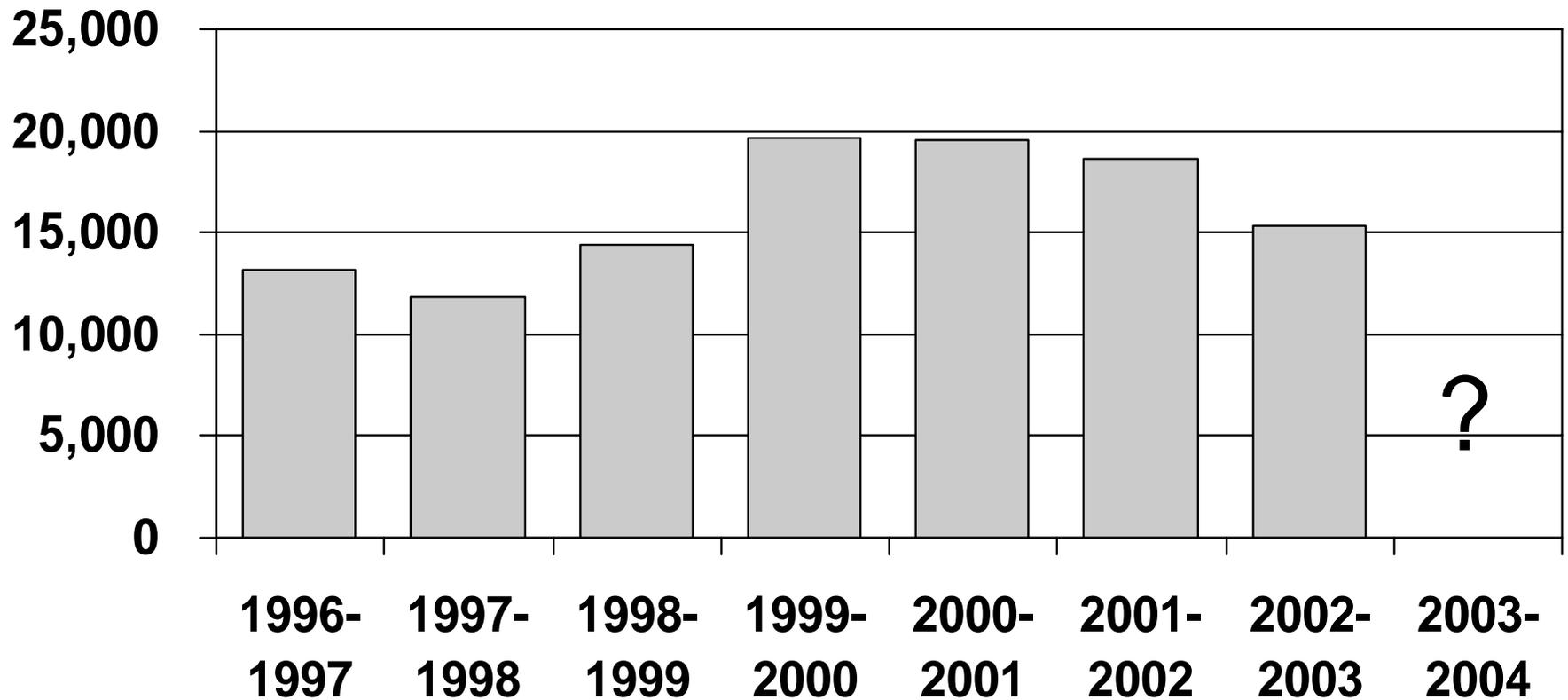
Demographics



Sept 11

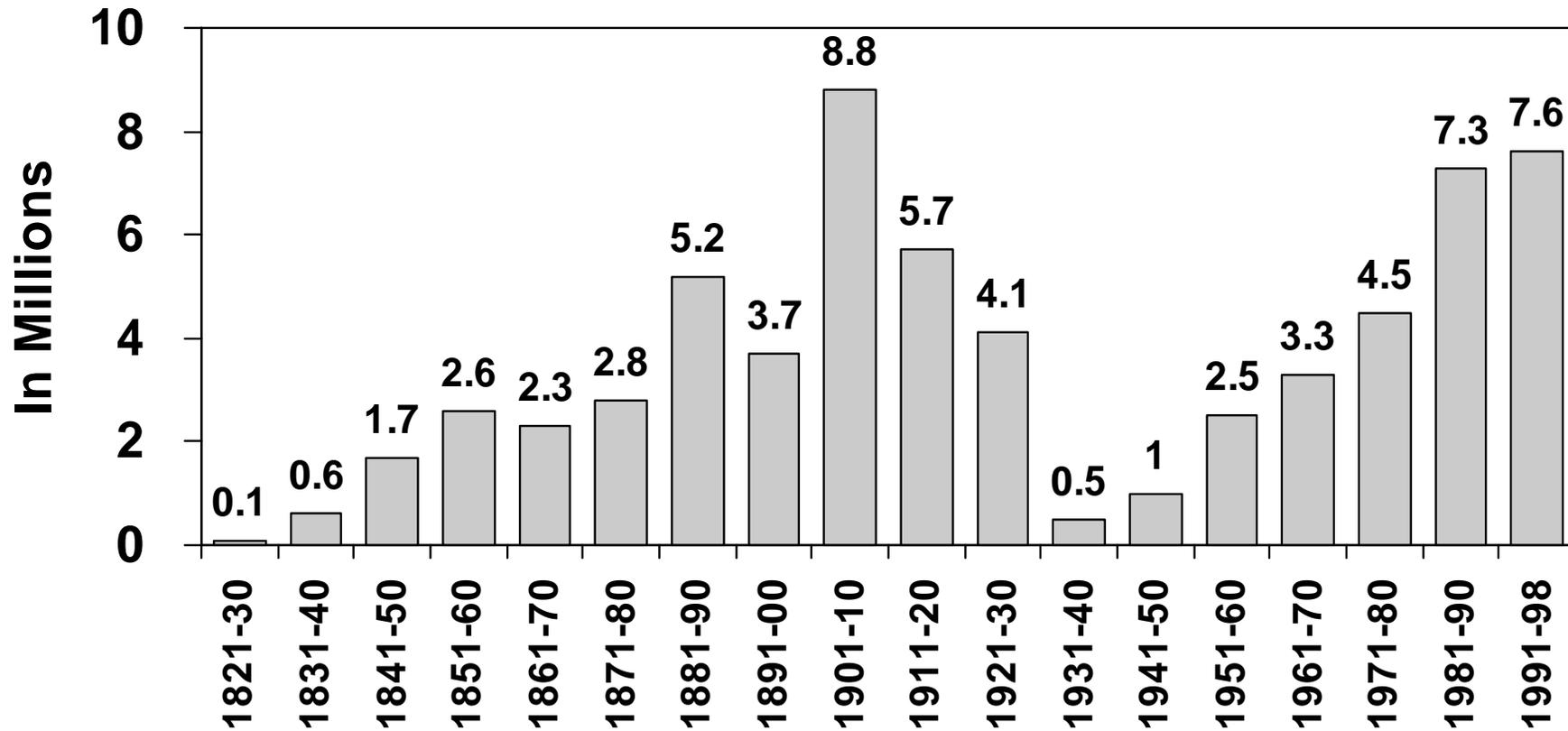


Miami-Dade County Public Schools Annual Foreign Student Registration



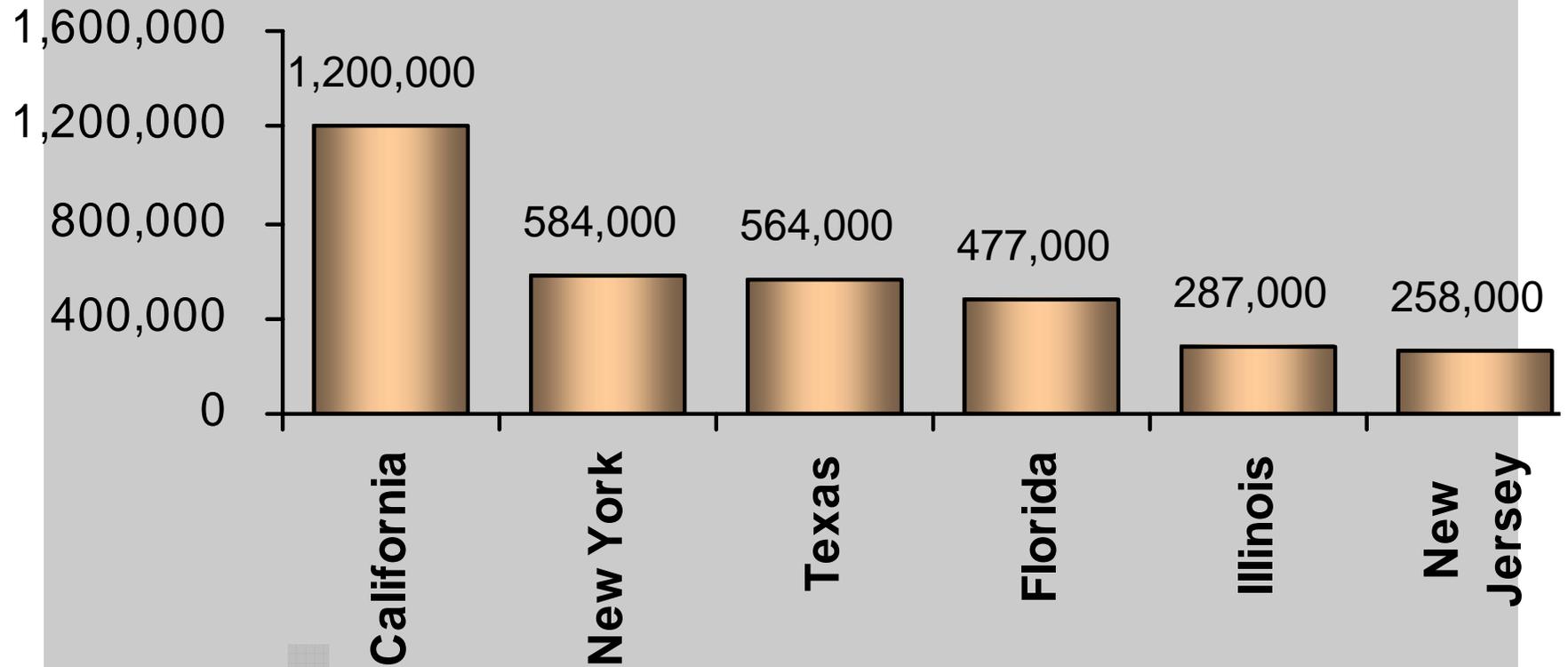


Immigrants to the United States





Florida: Rank 4th of Six *Gateway* States For Foreign-Born Migration From Abroad From 1995-2000

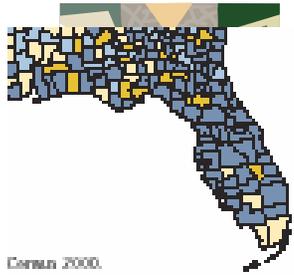


Foreign-Born Were More Mobile than U.S. Born



- ◀ Recent arrivals and non-citizens were the most mobile
- ◀ Africans had highest mobility rate
- ◀ Europeans had the lowest





Census 2000

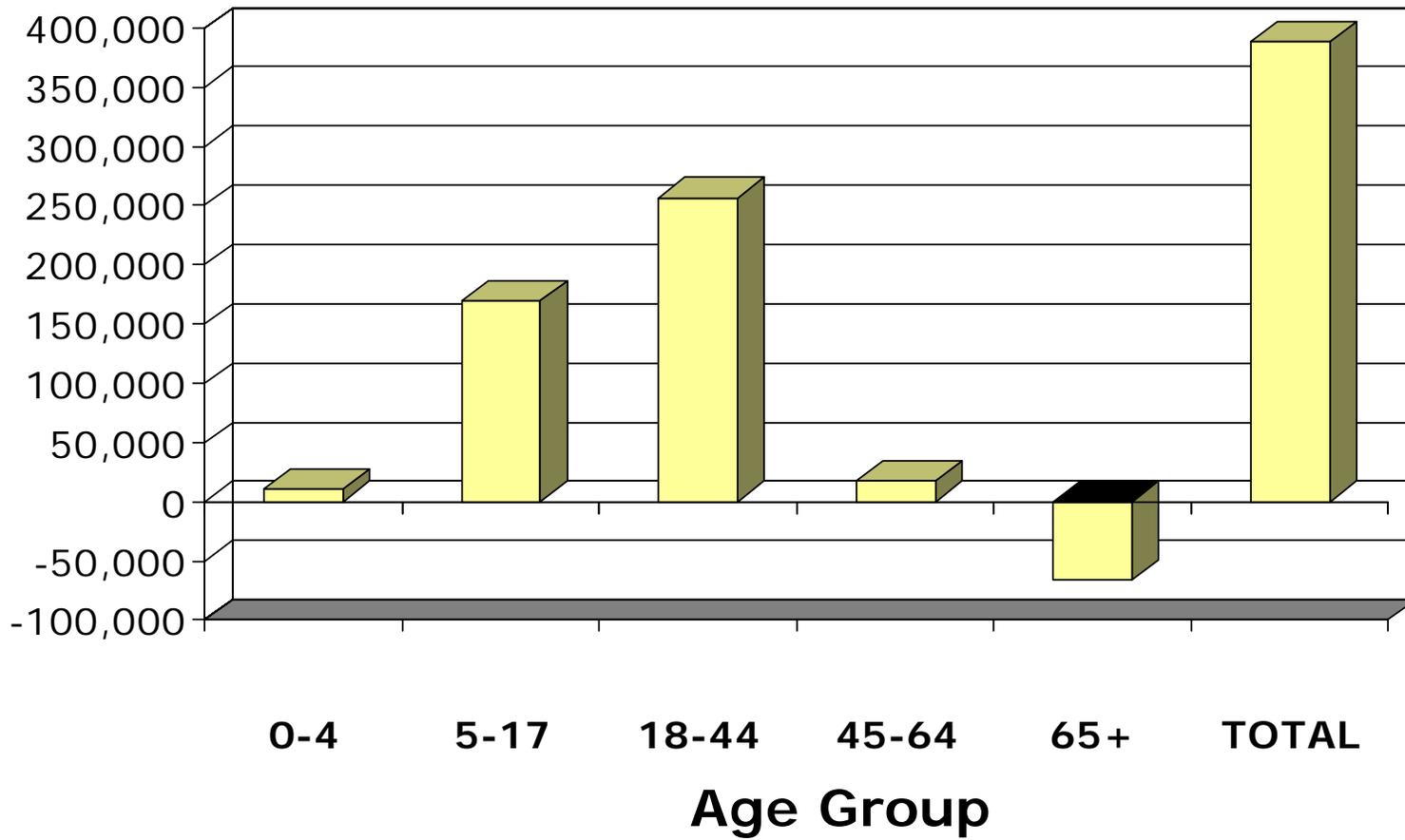
Migration Varied By County 1995-2000

	Net Out-Mig of US-born		Net In-Mig of US-born	
Net In-Mig of Foreign-Born	Duval		All Other Counties (52)	
Net Out-Mig of Foreign-Born	Bay Dade Gadsden	Hardee Hendry Monroe	Alachua Gilchrist Hamilton Liberty	Okeechobee Okaloosa Madison Wakulla

US Census Report 2000 Special Report CENSR-11



Change In 2000 Estimate after Census



Age Distribution of Persons Entering Florida



- ◀ May have changed
- ◀ Evidence:
 - ◀ Age distribution estimates differ pre- and post- 2000 census
 - ◀ Both public and private education are growing in enrollment

The Economy



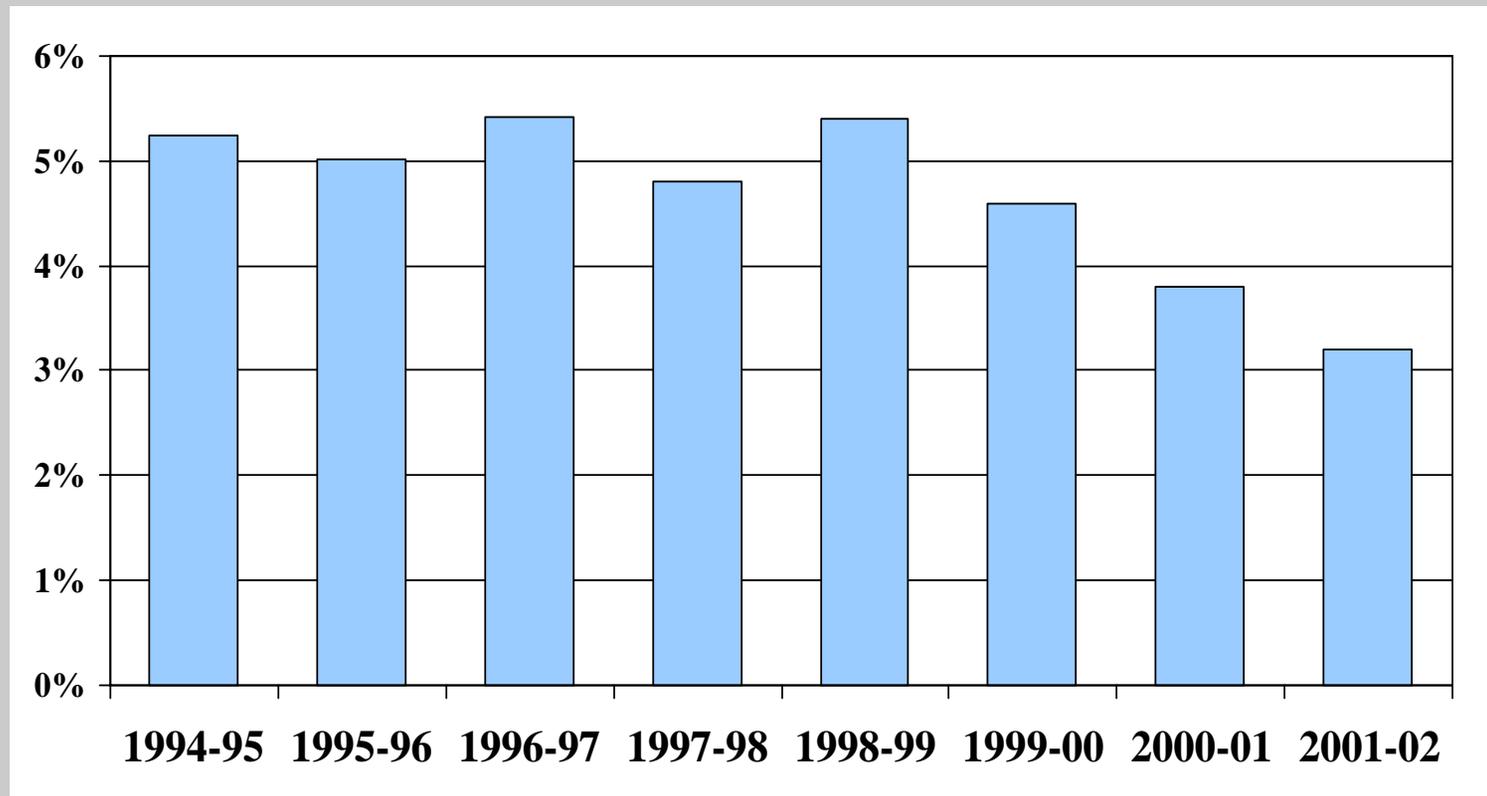
May Influence

- ▶ Movement between public and private education
- ▶ Dropout rate
- ▶ Net migration to state



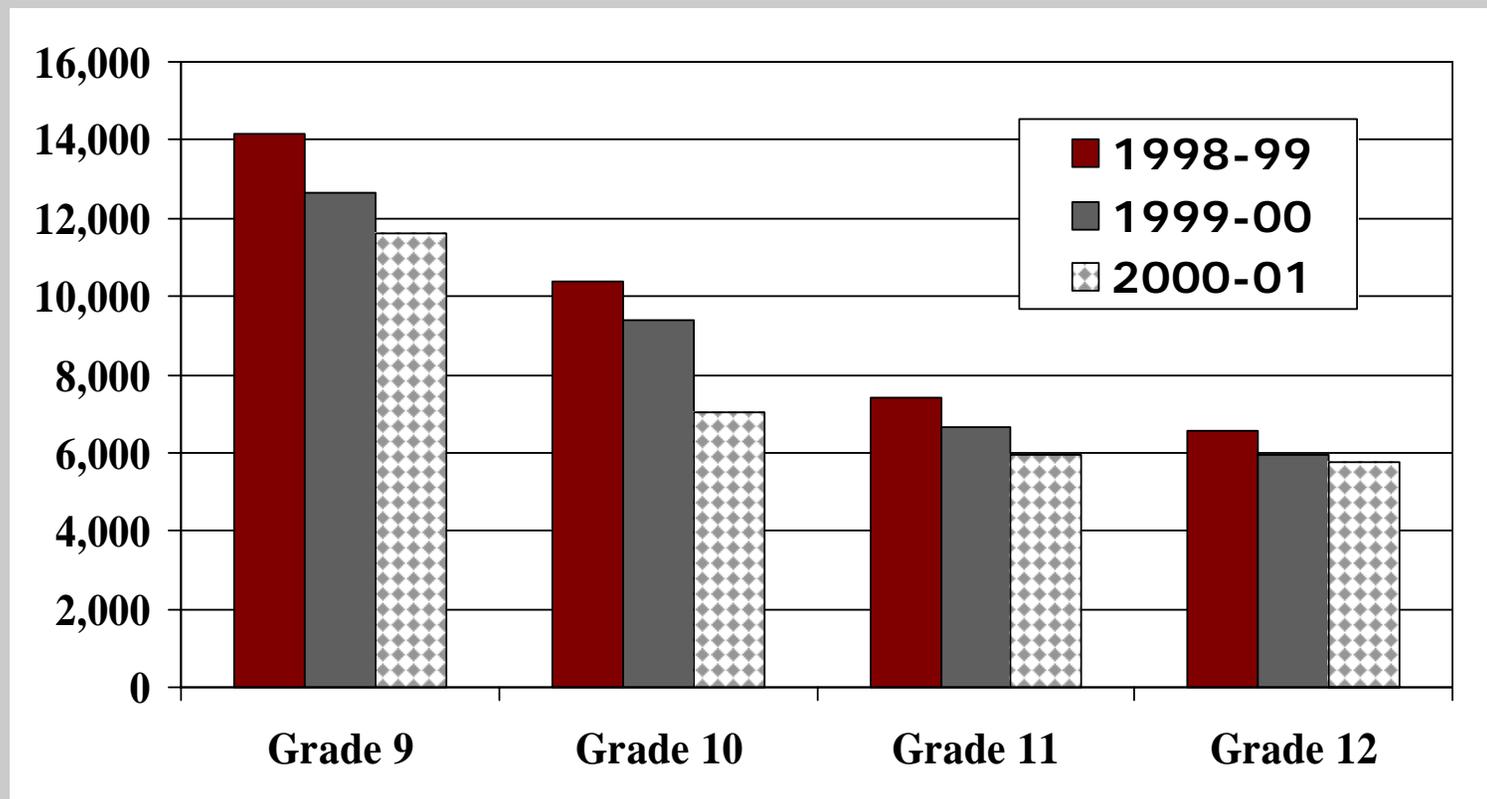


Fewer Dropout Students

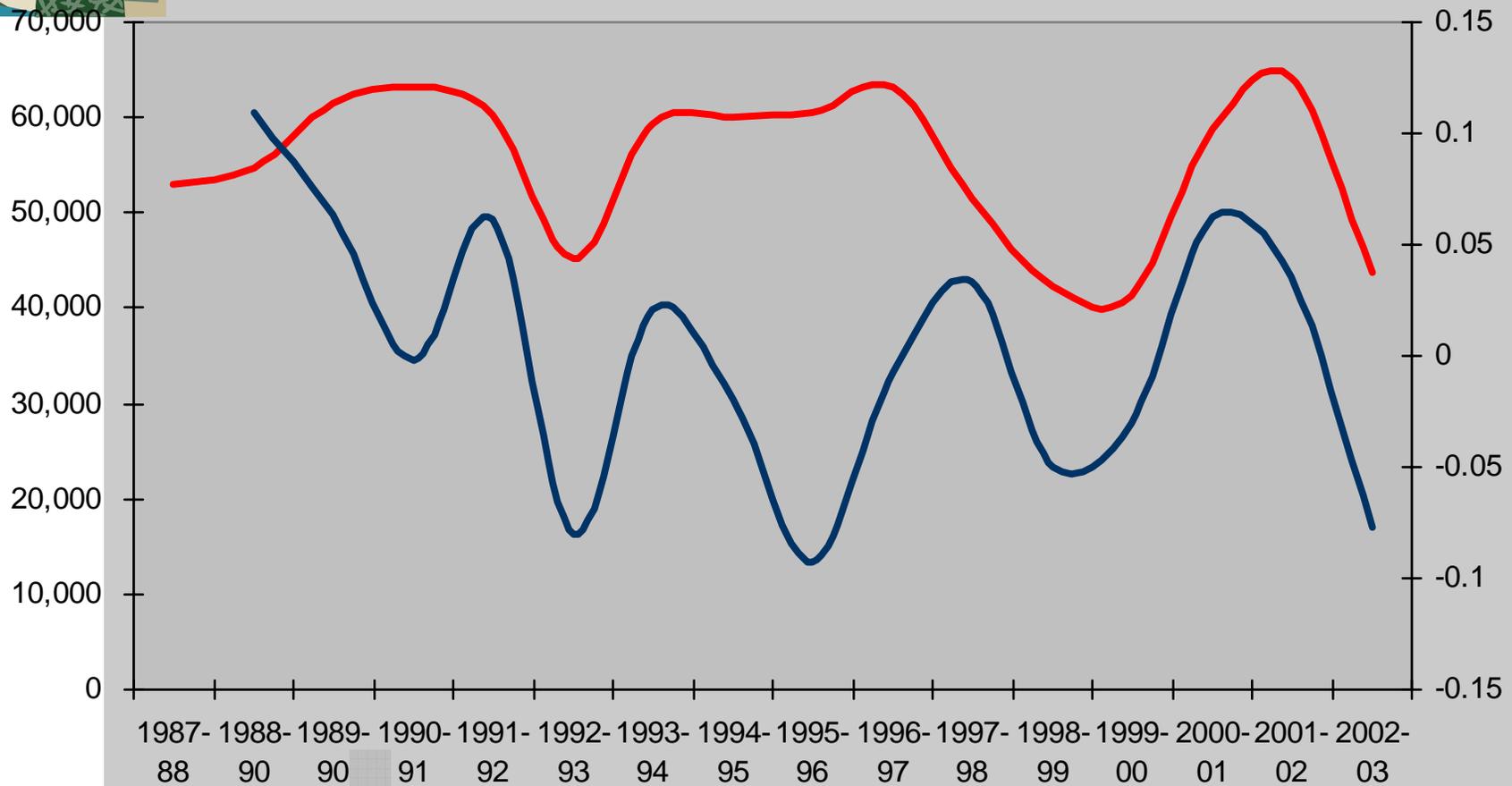




Dropouts Lower Across Grades



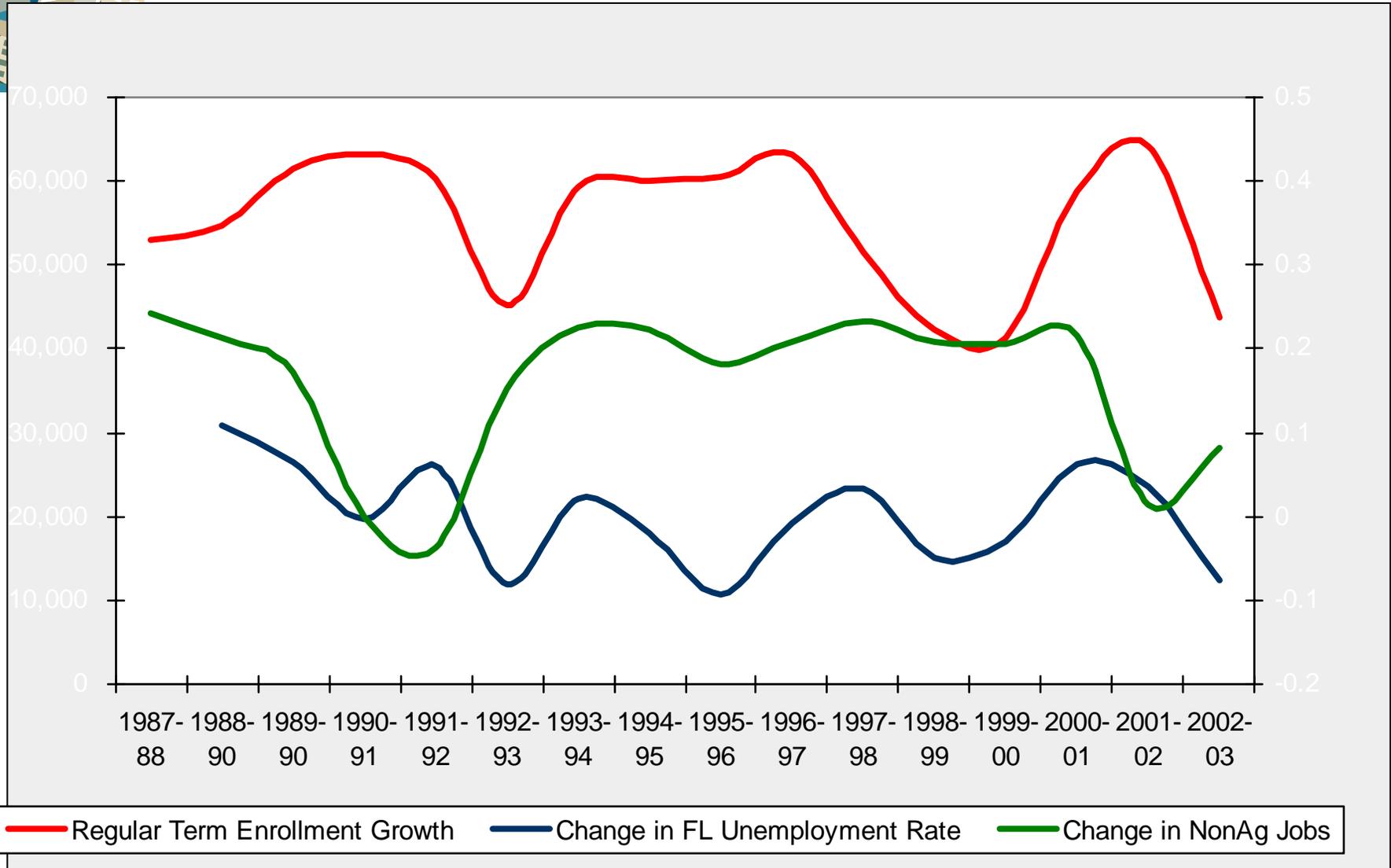
Change in FL Unemployment Rate Vs Growth in Regular Term Enrollment



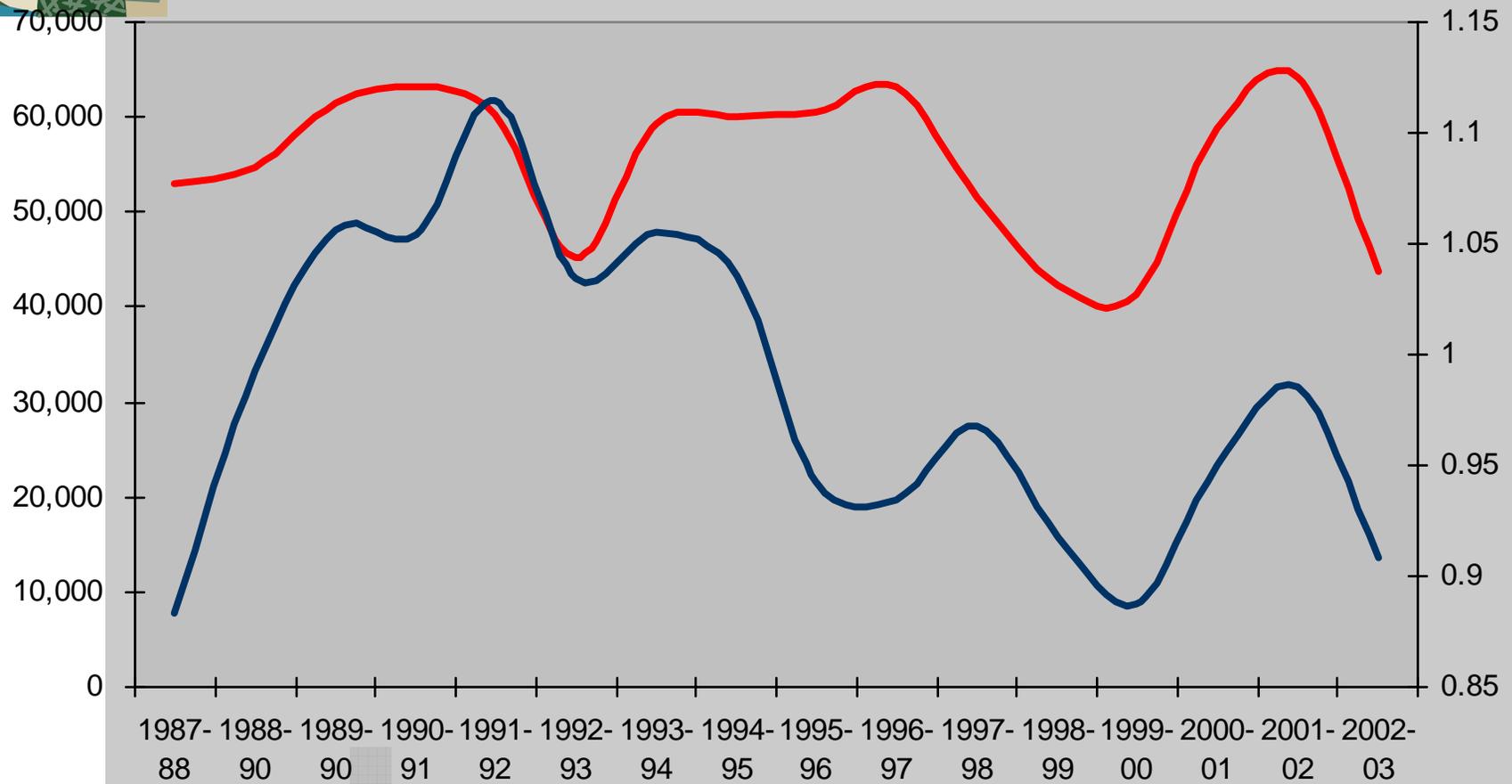
— Regular Term Enrollment Growth

— Change in FL Unemployment Rate

Change in FL Economic Data Vs Growth in Regular Term Enrollment

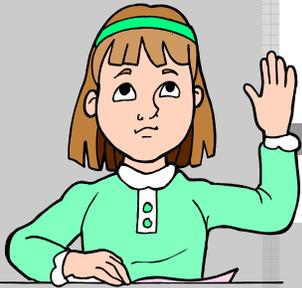


Ratio of FL to US Unemployment Rate Vs Growth in Regular Term Enrollment

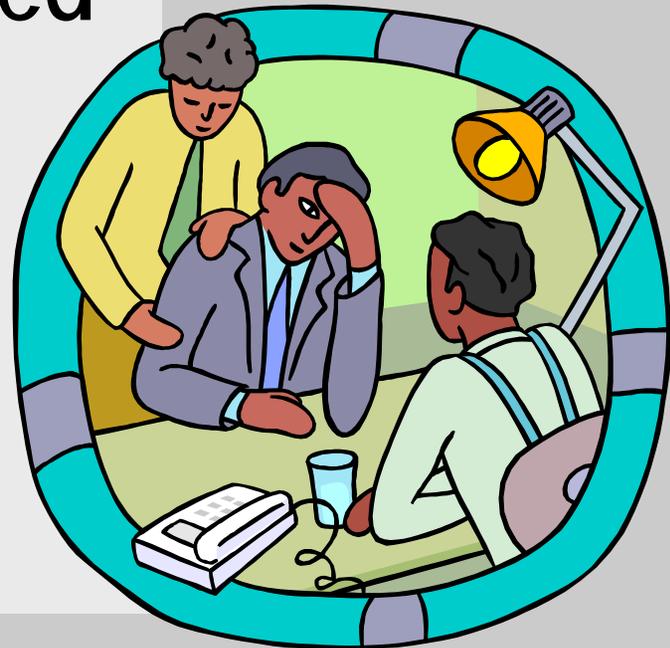


— Regular Term Enrollment Growth
 — Ratio of FL Unemployment Rate to US Unemployment Rate

September 11

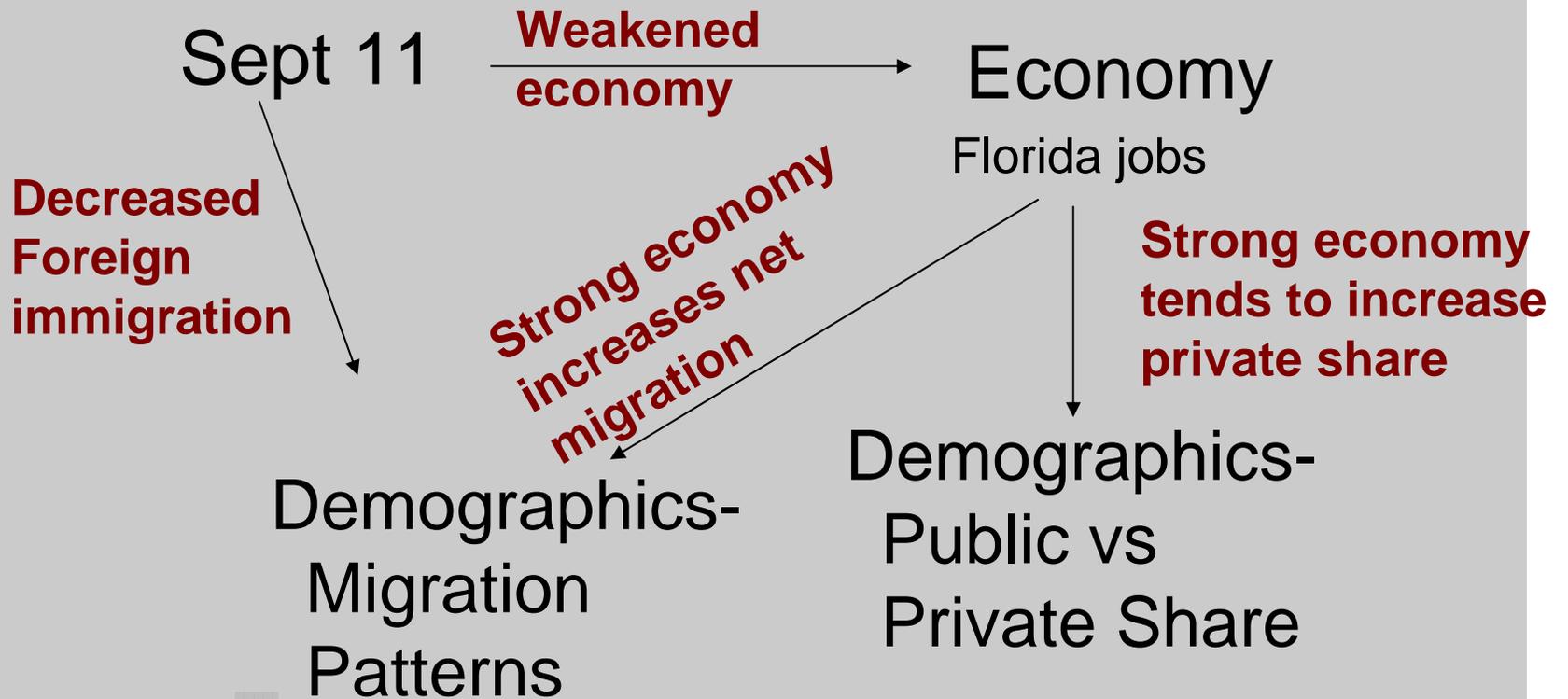


- ◀ Possibly decreased the net migration into the state
- ◀ Weakened the economy

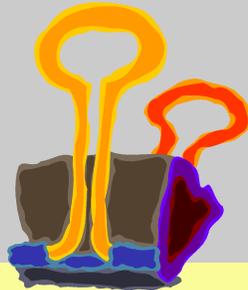




Factors Interact



Possible Policy Factors



Accelerated
Graduation

Increase in Choice Options

- ◀ Public School Choice
- ◀ Charter Schools
- ◀ McKay & Opportunity Scholarships
- ◀ Corporate Income Tax Scholarships
- ◀ Online Education



High School Grades Levels Have Become “FUZZY”

- ◀ In the past, a student progressed sequentially through the grades based on number of course credits.
- ◀ Now, some students may stay in the ninth or tenth grades until ready to pass the FCAT and then skip a grade to rejoin their age cohorts.



Longer Time in High School

Or Not

- ◀ Some may take longer to complete standard high school due to testing.
- ◀ Some ESE students may spend longer time in K-12 education.
- ◀ Some may or may not have accelerated graduation option



Who? What? When? Where? Why?

- ◀ Who will receive state-funded education?
- ◀ What kind of services will they receive?
- ◀ When will these services be provided?
- ◀ Where will these services be provided?
- ◀ Why are these services provided?





FEFP Categories

Year	Basic K-12, AT-Risk, ESOL	ESE	K-12 Voc	Adult
1981	5	15	10	16
1991	10	15	10	19
2001	7	2	1	



Where is State-Funded Education Provided?

Prior to late 1990's

◀ Public Schools

Since late 1990s

◀ Public Schools

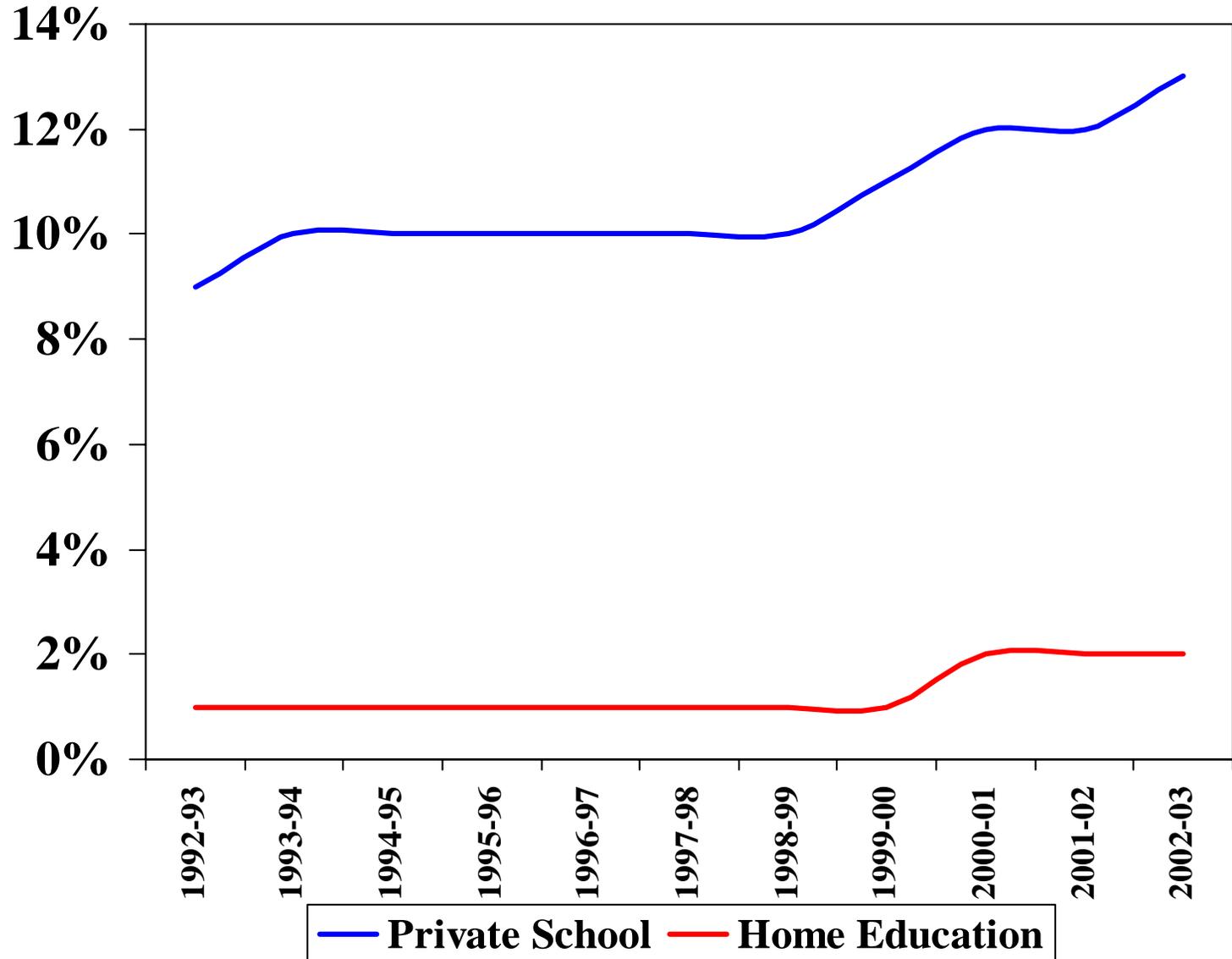
◀ Private Schools

◀ Home

◀ Online



Percent of Students in Private Sector





Public Vs Private

"Fuzzier"

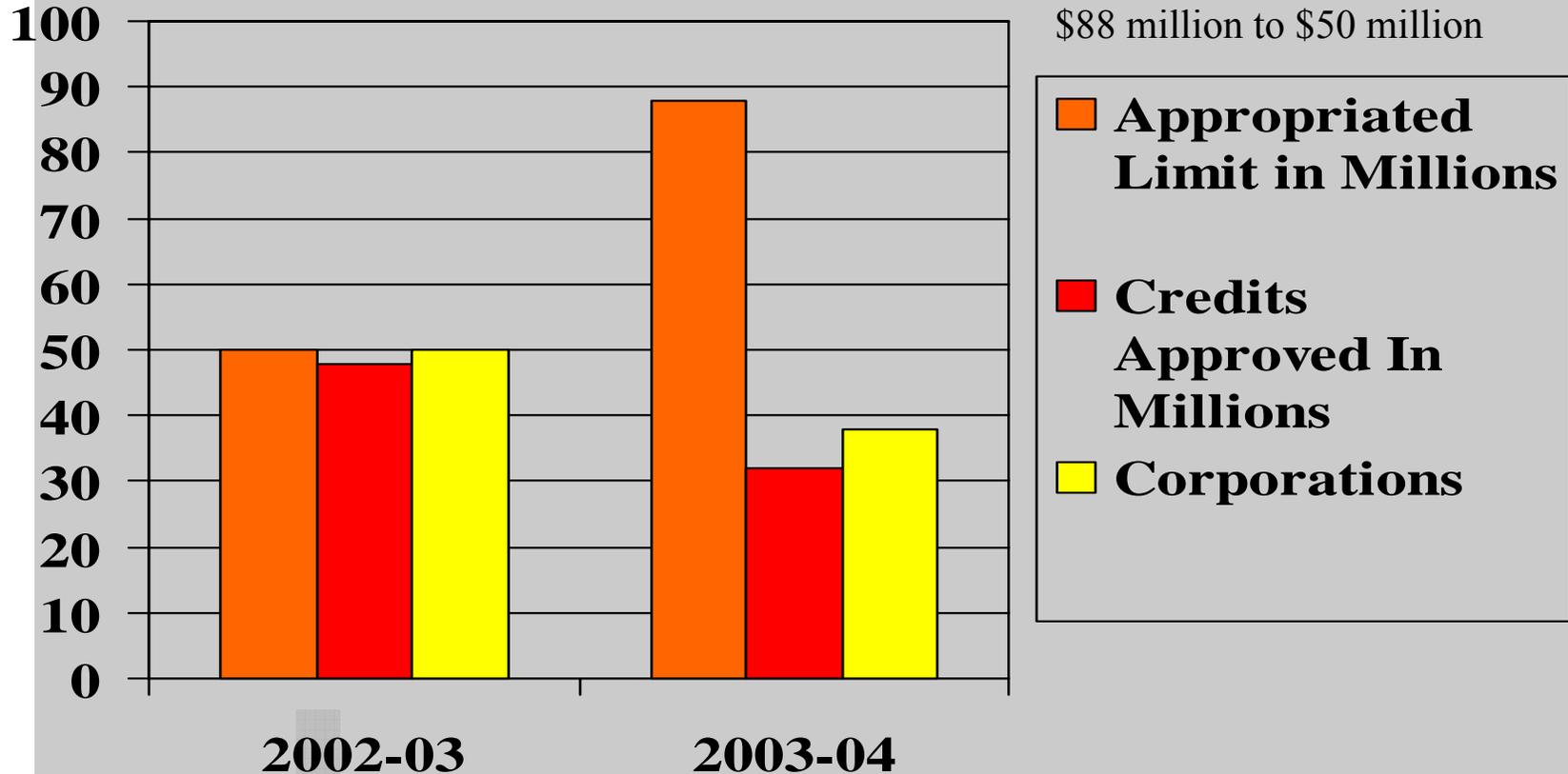
- ◀ Private school and home school students can receive some services at public schools.
- ◀ Some students are counted in both public and private education (McKay and Opportunity students).

Affected By

- ◀ the economy
- ◀ the choice options

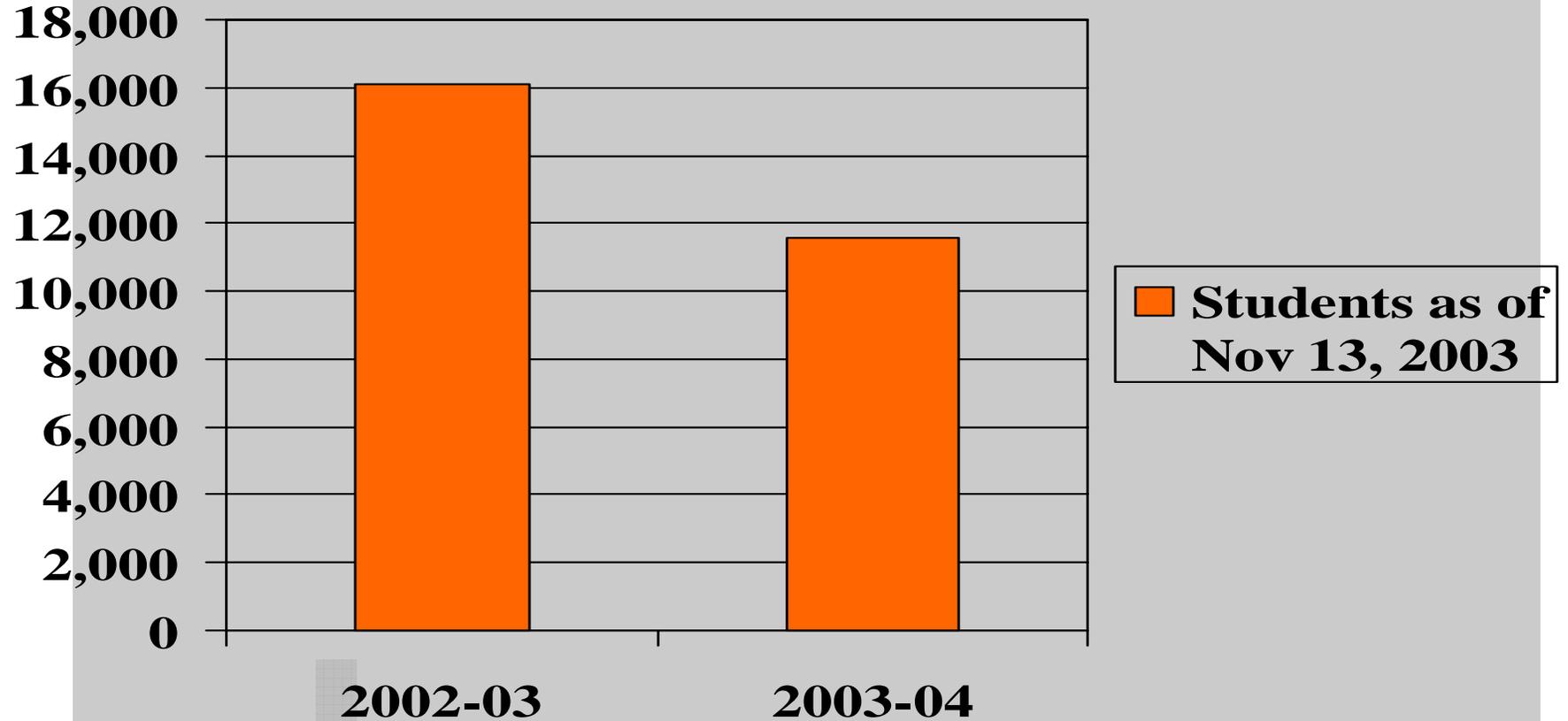


Corporate Tax Credit Program Dollars



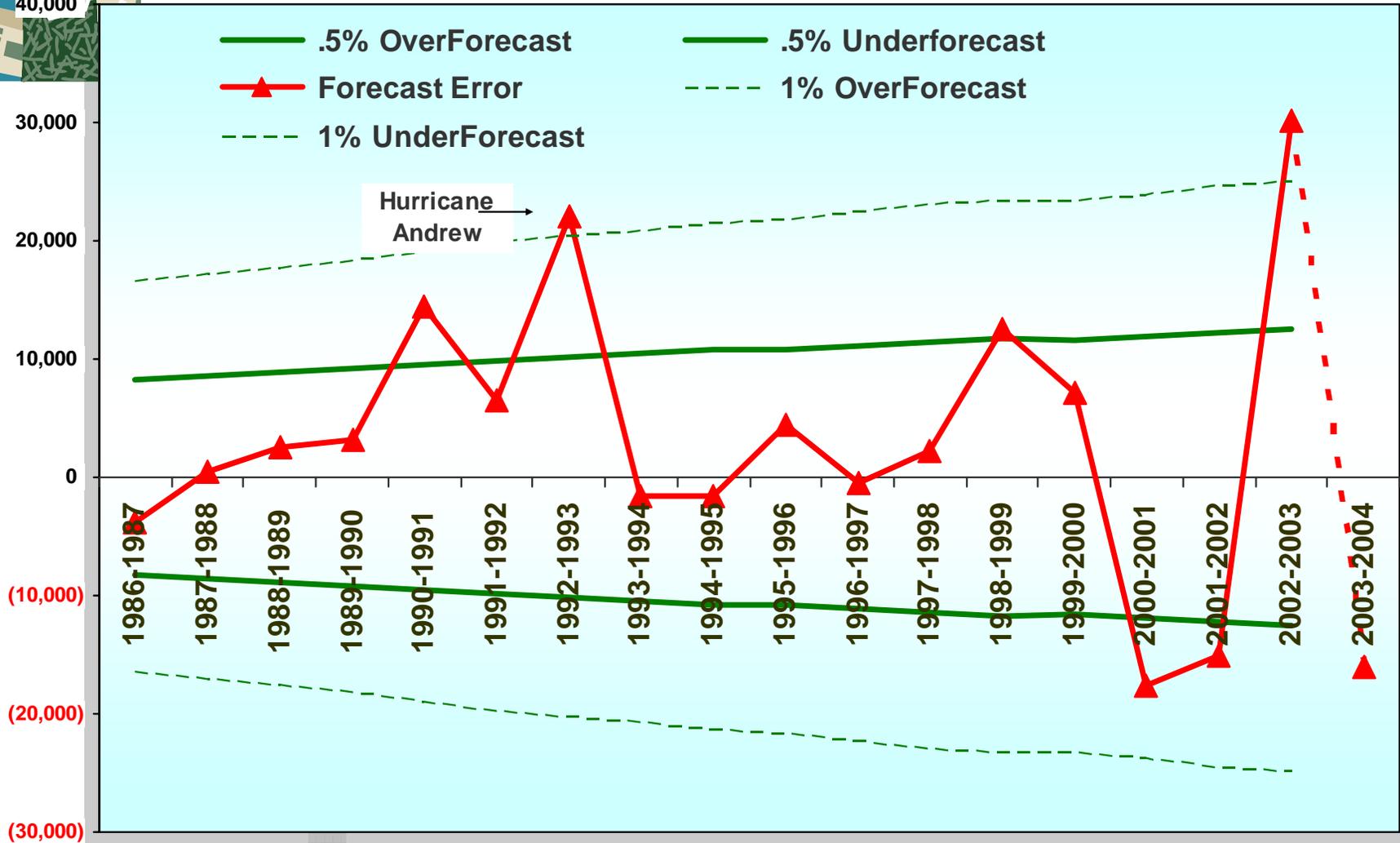


Corporate Tax Credit Program Students





What Does The Future Hold?





Partial Explanations for Recent Forecast Errors

2000-01 and 2001-02 Underforecasts

Increasing migration into the state

Decreasing dropout rate

2002-03 Overforecast

Sept 11 decreased migration into state

Decision to not adjust for Corporate Tax Credit Program

2003-04 Underforecast

Possible partial recovery of Sept 11 effect

Decision to adjust for Corporate Tax Credit Program



Future Forecast Errors

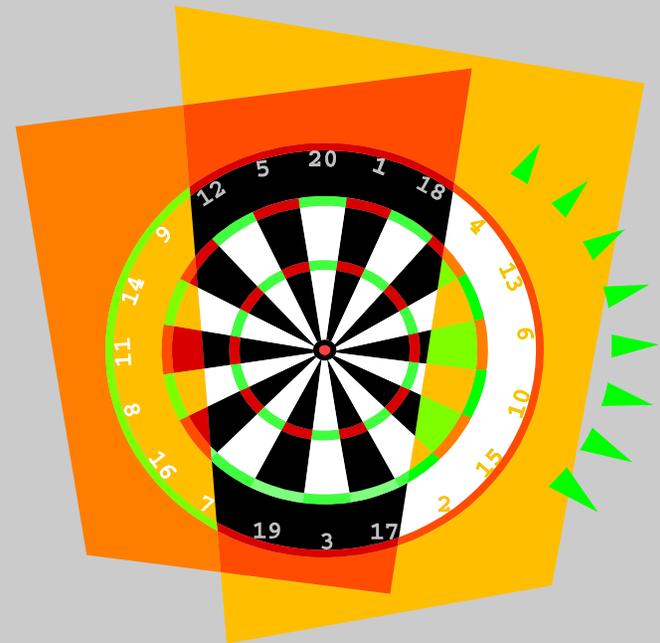
- ▶ Accuracy of economic and demographic models will likely improve if the definition of the target population remains constant
- ▶ Policy Changes may continue to increase the forecast error



Forecasting Enrollment

◀ High Importance

◀ Increasing Difficulty





Recommended Strategies For Districts -- I

◀ Audit the input data



◀ Follow forecasting instructions



◀ Use a committee



Recommended Strategies For Districts -- II

◀ Anticipate that models will eventually adjust to change



◀ Don't over-react to prior errors



◀ But plan for forecast error



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