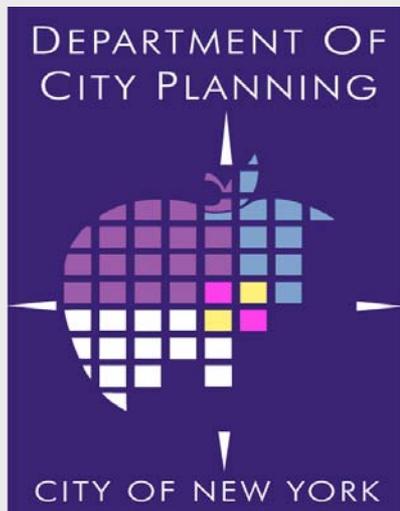


Evaluating A.C.S. Multi-Year Estimates For Sub-County Areas in the Bronx



2007 Census Bureau ACS Review
November 15th, 2007

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Adam Willett, and Joel Alvarez
Population Division
NYC Department of City Planning

Previous Research Focused on Five-Year Estimates for Small Areas

- ✓ Census tract data were generally not reliable for the Bronx
- ✓ Neighborhoods as census tract aggregates were more reliable
- ✓ Neighborhood-level data demonstrated a fair measure of validity when compared with administrative data

Current Research

- Examines change in *neighborhoods* using the five year estimates, the only data available
- Examines the utility of one, three, and five year estimates for selected attributes *within* individual PUMAS
- Examines the utility of one, three, and five year estimates for selected attributes *across* PUMAS

Data User Issues

- What to do when the five year estimates are the *only* source of data
- *Case in point: Measuring Change at the Neighborhood Level*

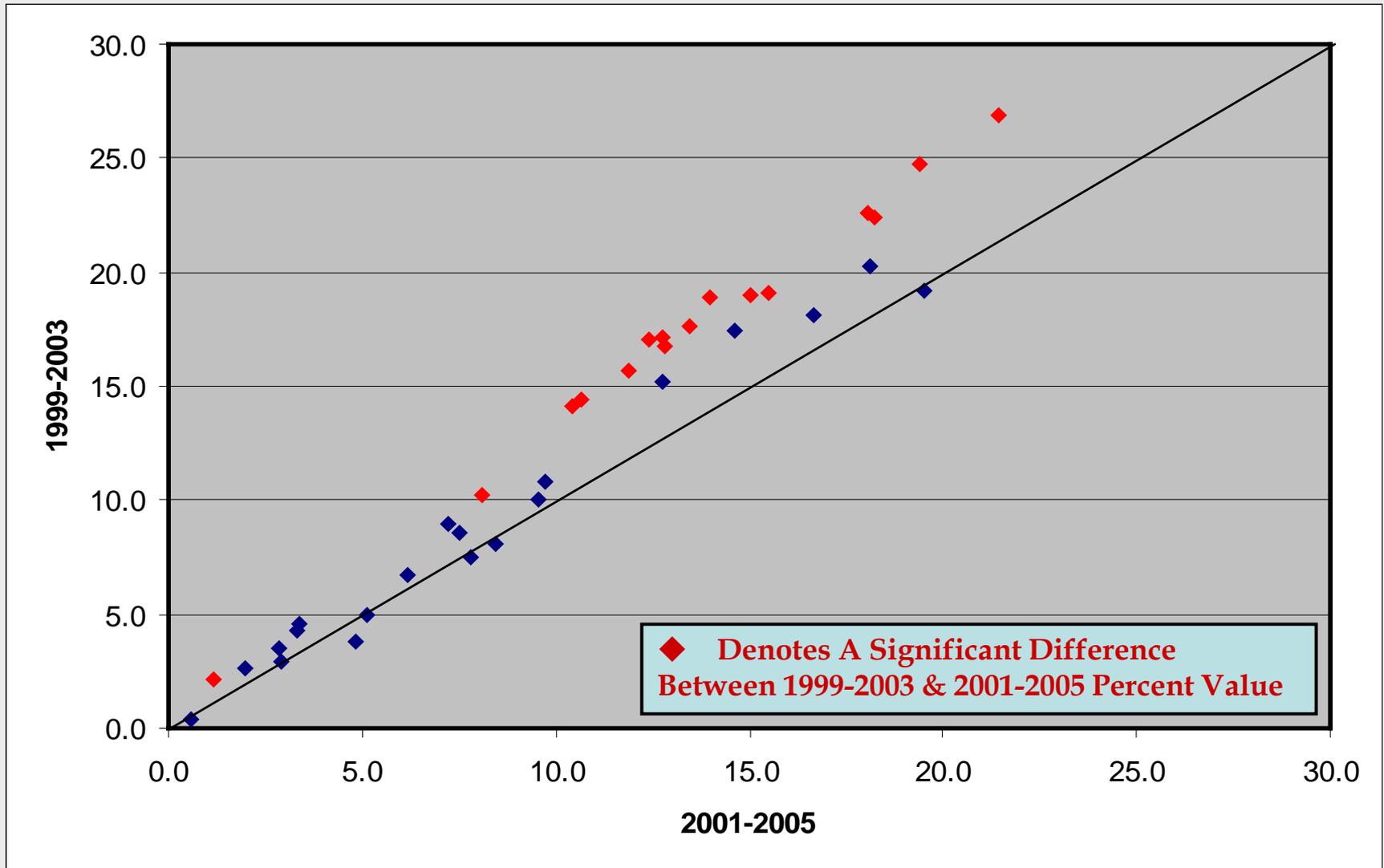
Bronx
Park

Pelham
Bay
Park

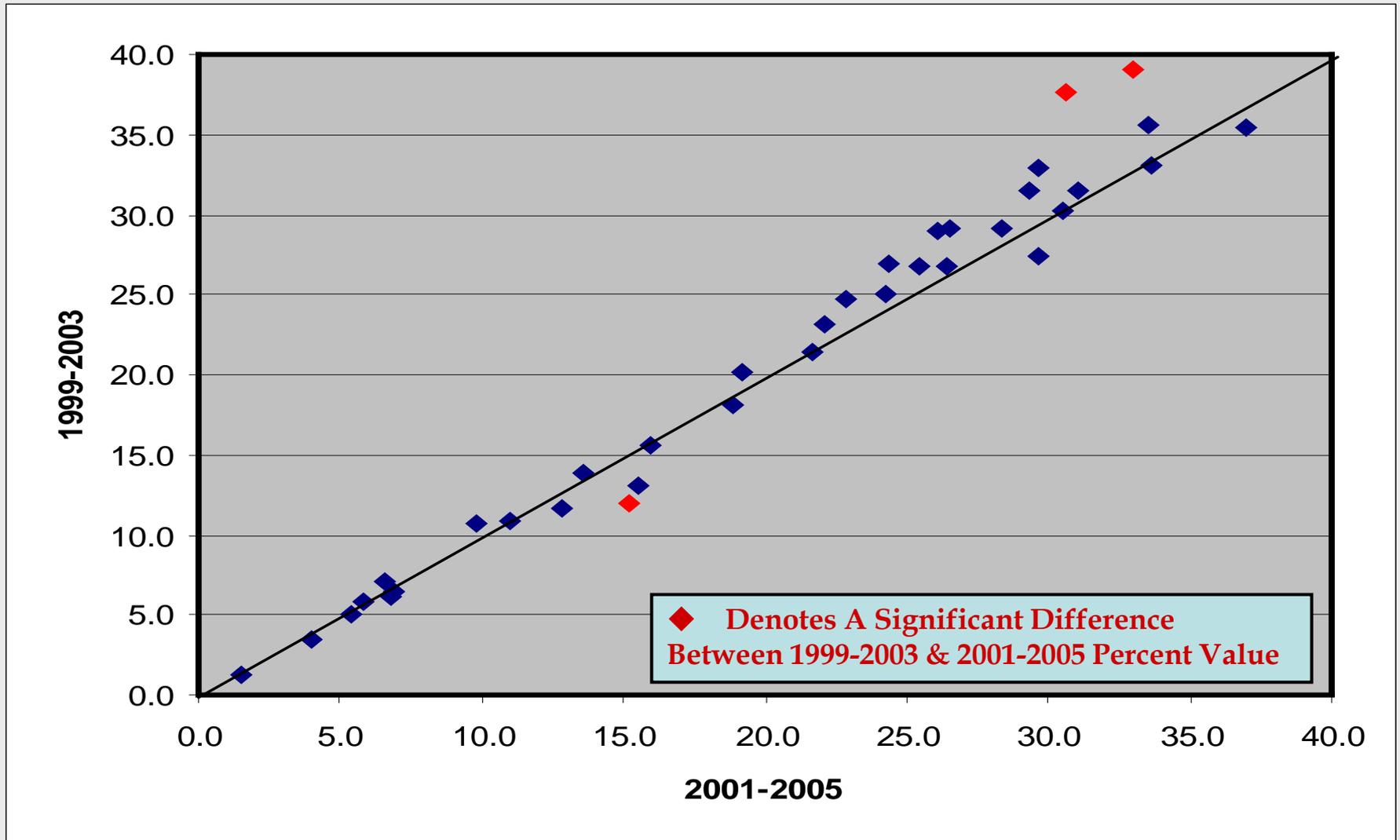
Claremont
Park



Percent of Households Receiving Public Assistance: Bronx Neighborhoods, 1999-2003 and 2001-2005

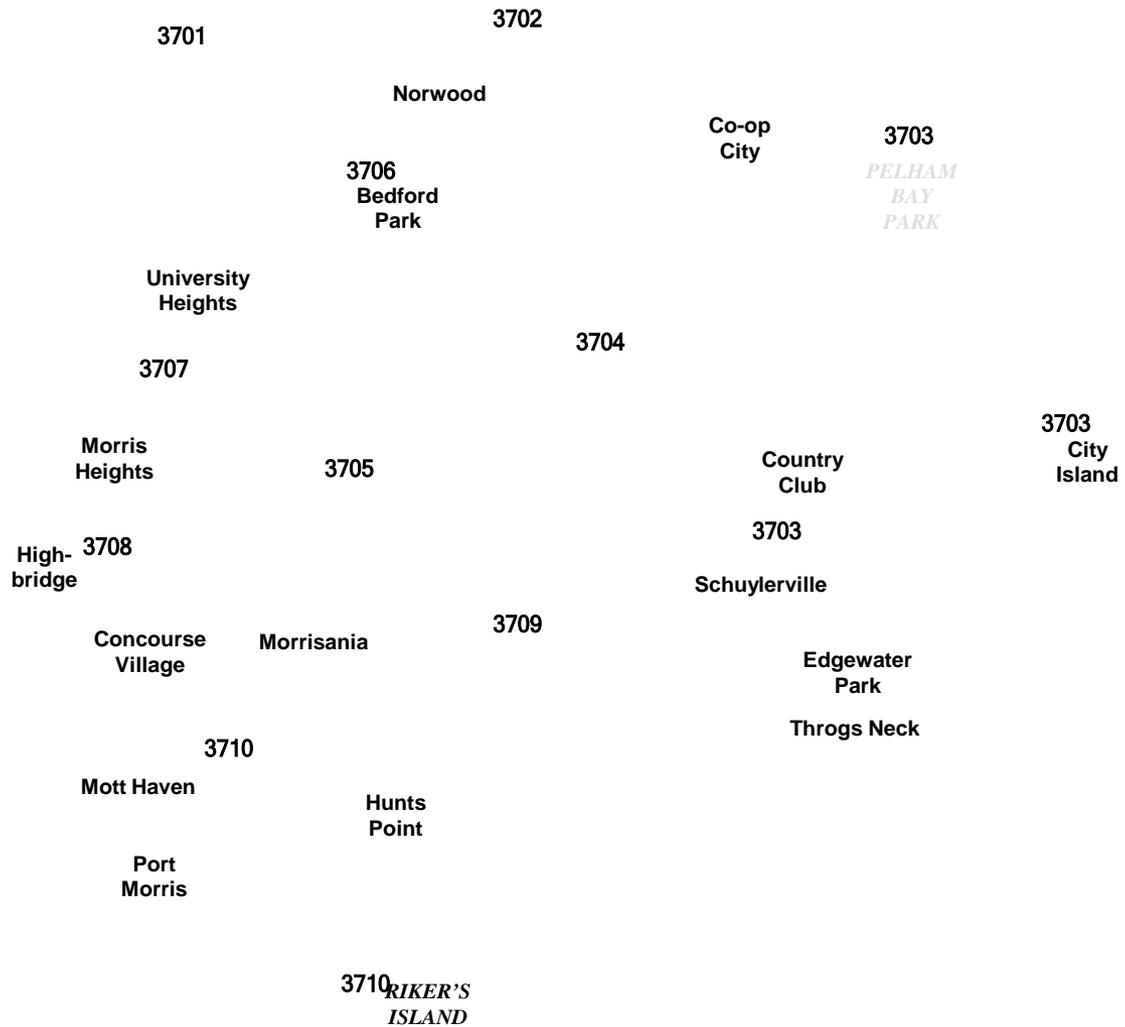


Percent of Households Receiving Food Stamps: Bronx County, 1999-2003 and 2001-2005

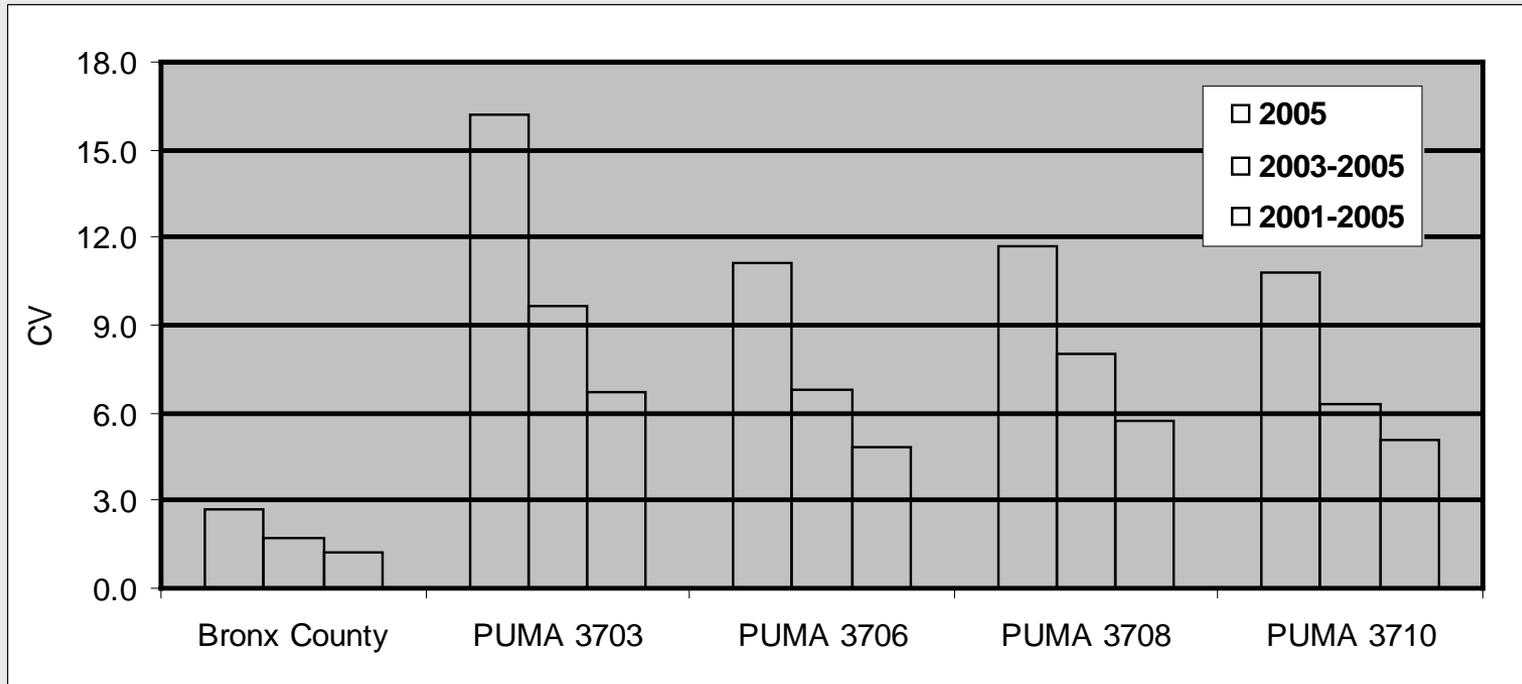


Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in point: Optimizing reliability of PUMA level data*



Mean CV of 12 Variables Measuring Economic Stress: Bronx County and Selected PUMAs



	1 Yr Est.	3 Yr MYE	5 Yr MYE
Bronx	2.7	1.7	1.3
3703	16.2	9.7	6.7
3706	11.1	6.8	4.8
3708	11.7	8.0	5.7
3710	10.8	6.3	5.1

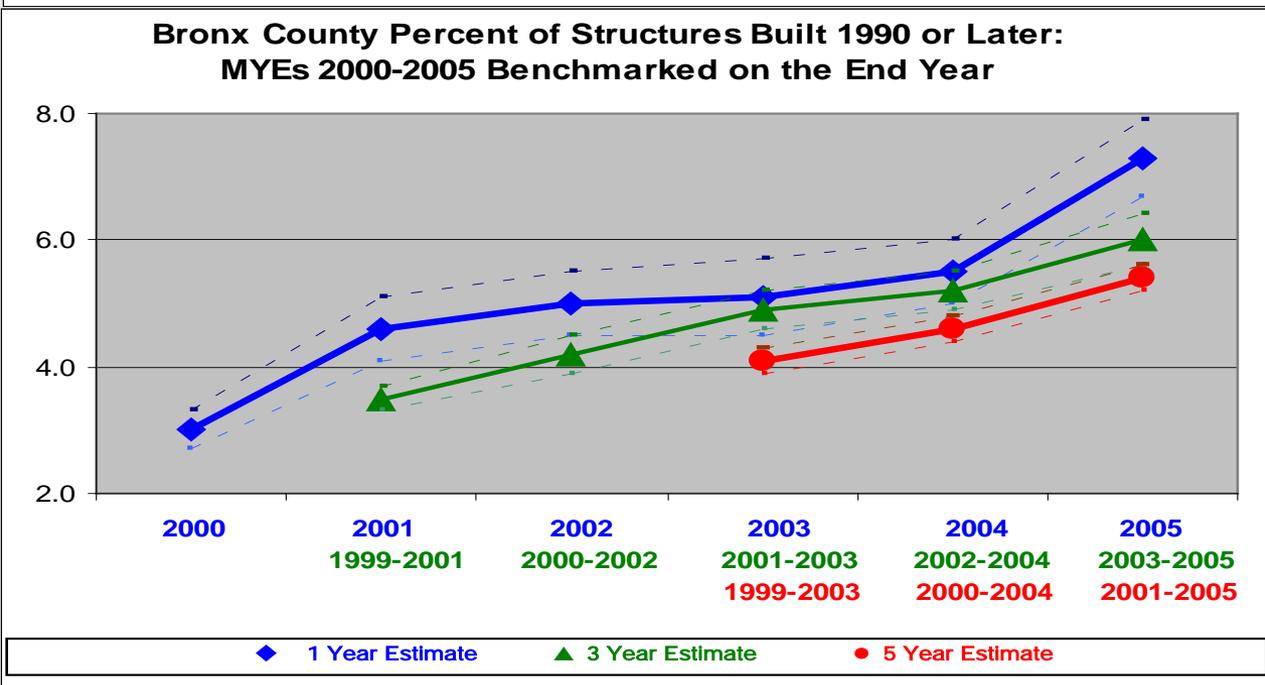
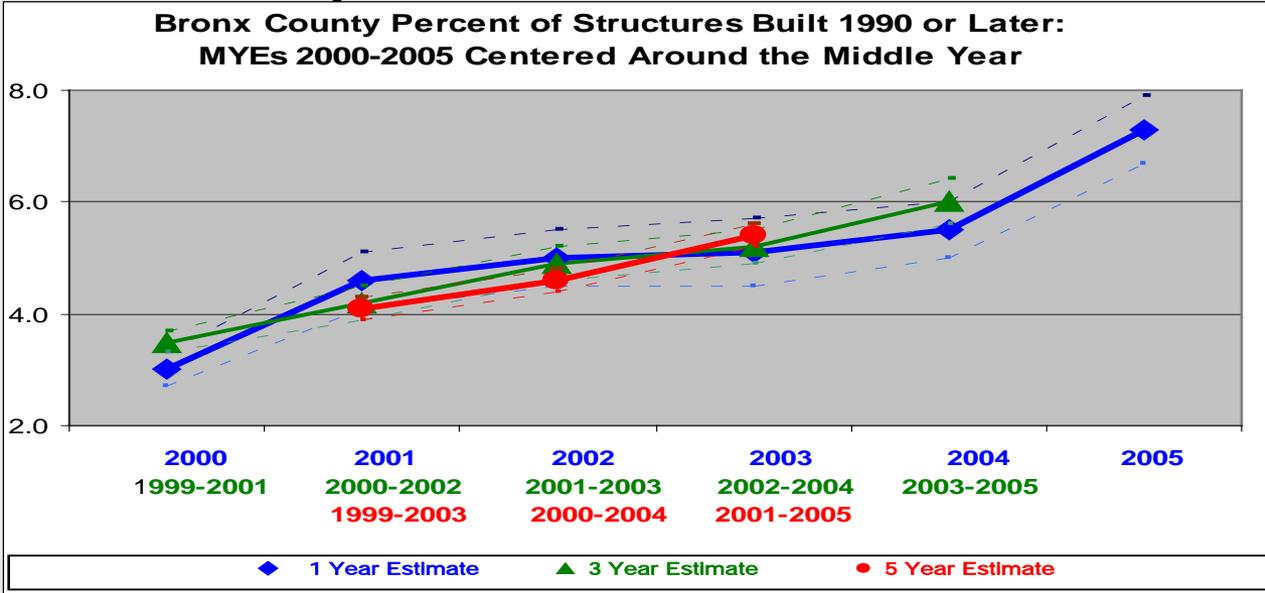
Improvement When Including More Years

1 to 3 Year	1 to 5 Year	3 to 5 Year
35.0	53.5	28.4
40.2	58.6	30.8
39.2	56.5	28.5
31.6	51.1	28.5
41.4	53.0	19.7

Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in point: Assessing change in PUMA level data*

Visual Representations of Change



Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in Point: Same Geographic Area
One, Three or Five Year Estimates?
PUMA 3703*

3701

3702

Norwood

3706
Bedford
Park

Co-op
City

3703
*PELLHAM
BAY
PARK*

University
Heights

3704

3707

Morris
Heights

3705

Country
Club

3703
City
Island

High-
bridge 3708

3703

Concourse
Village

Morrisania

3709

Schuylerville

Edgewater
Park

3710

Throgs Neck

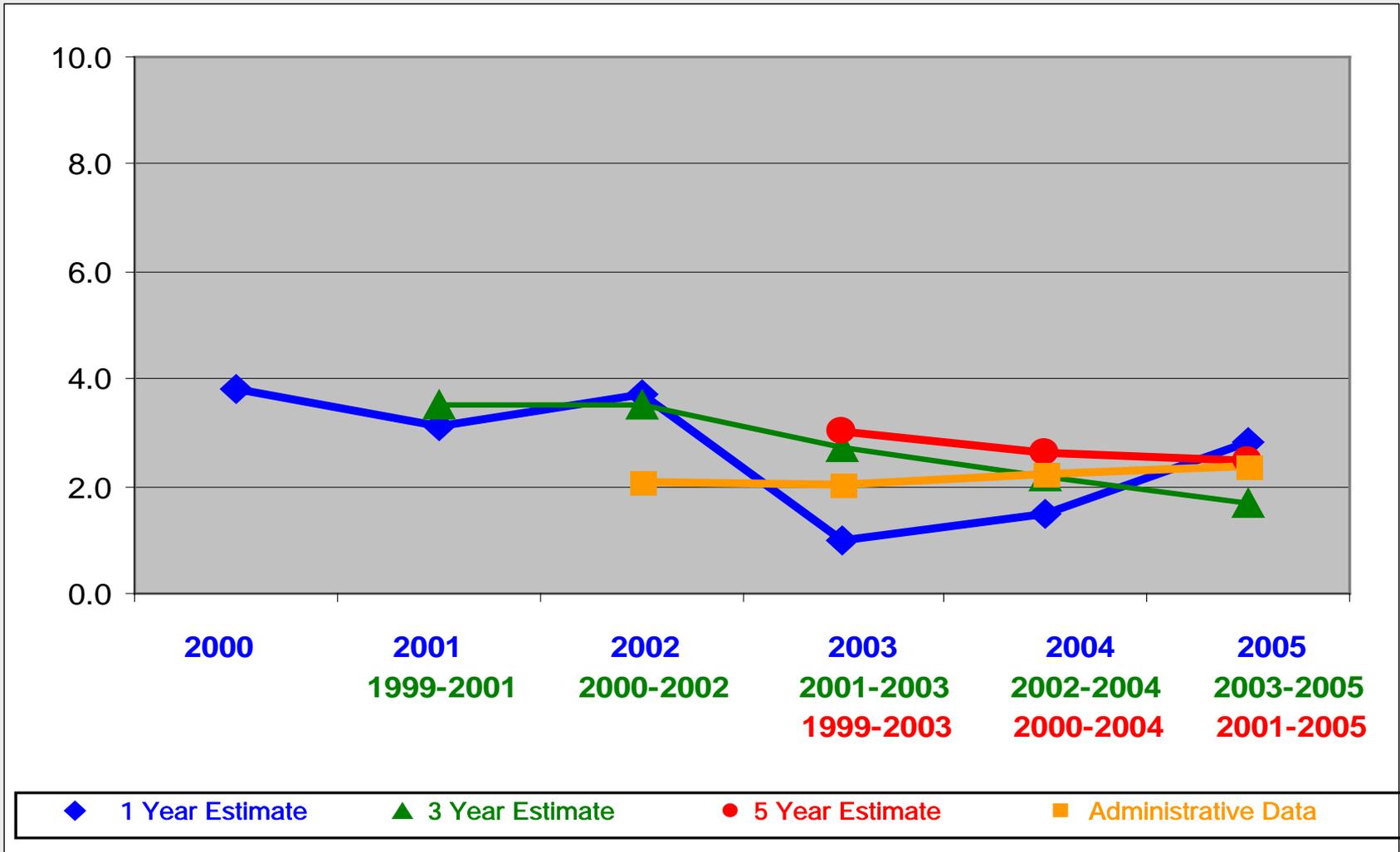
Mott Haven

Hunts
Point

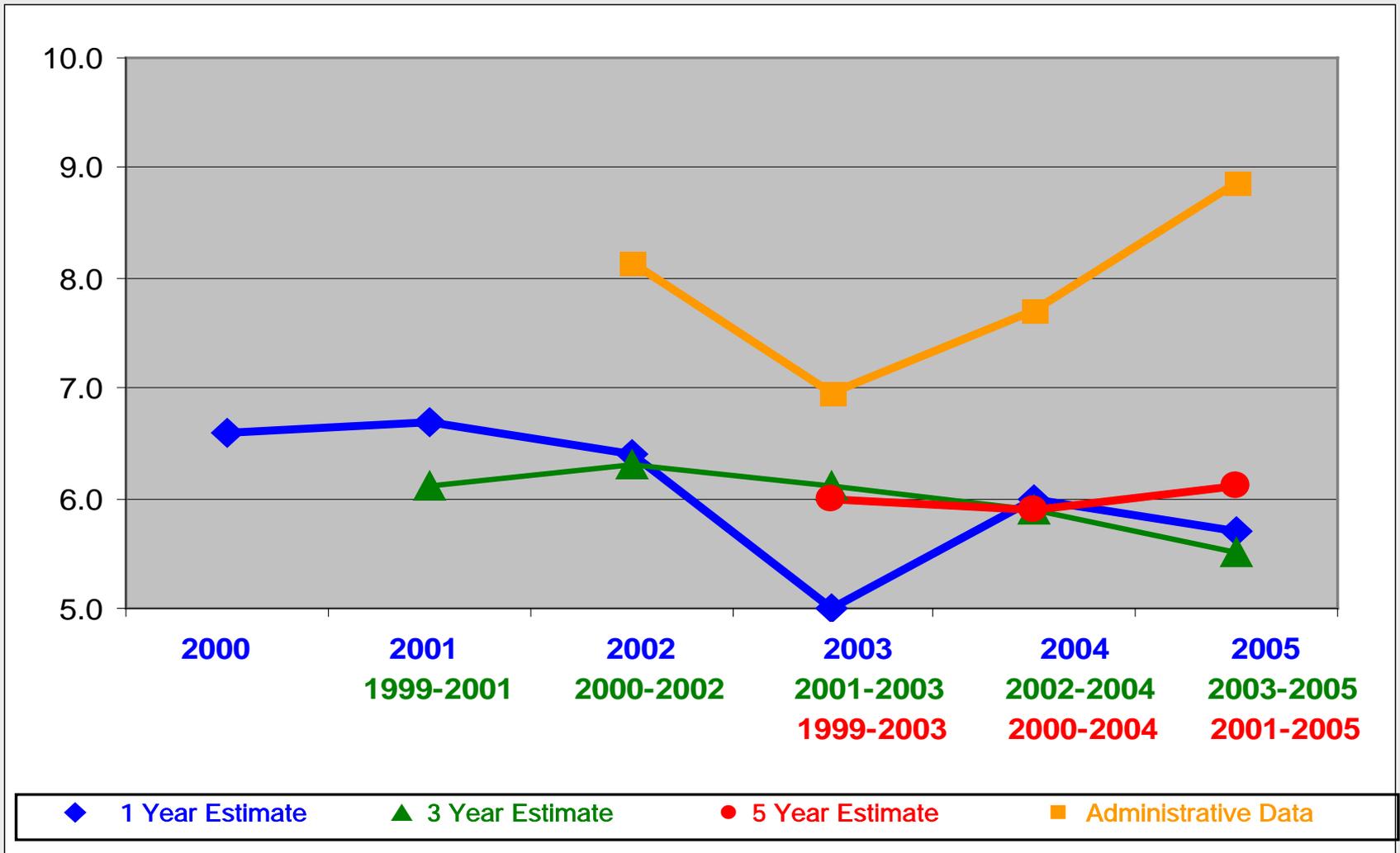
Port
Morris

3710
*RIKER'S
ISLAND*

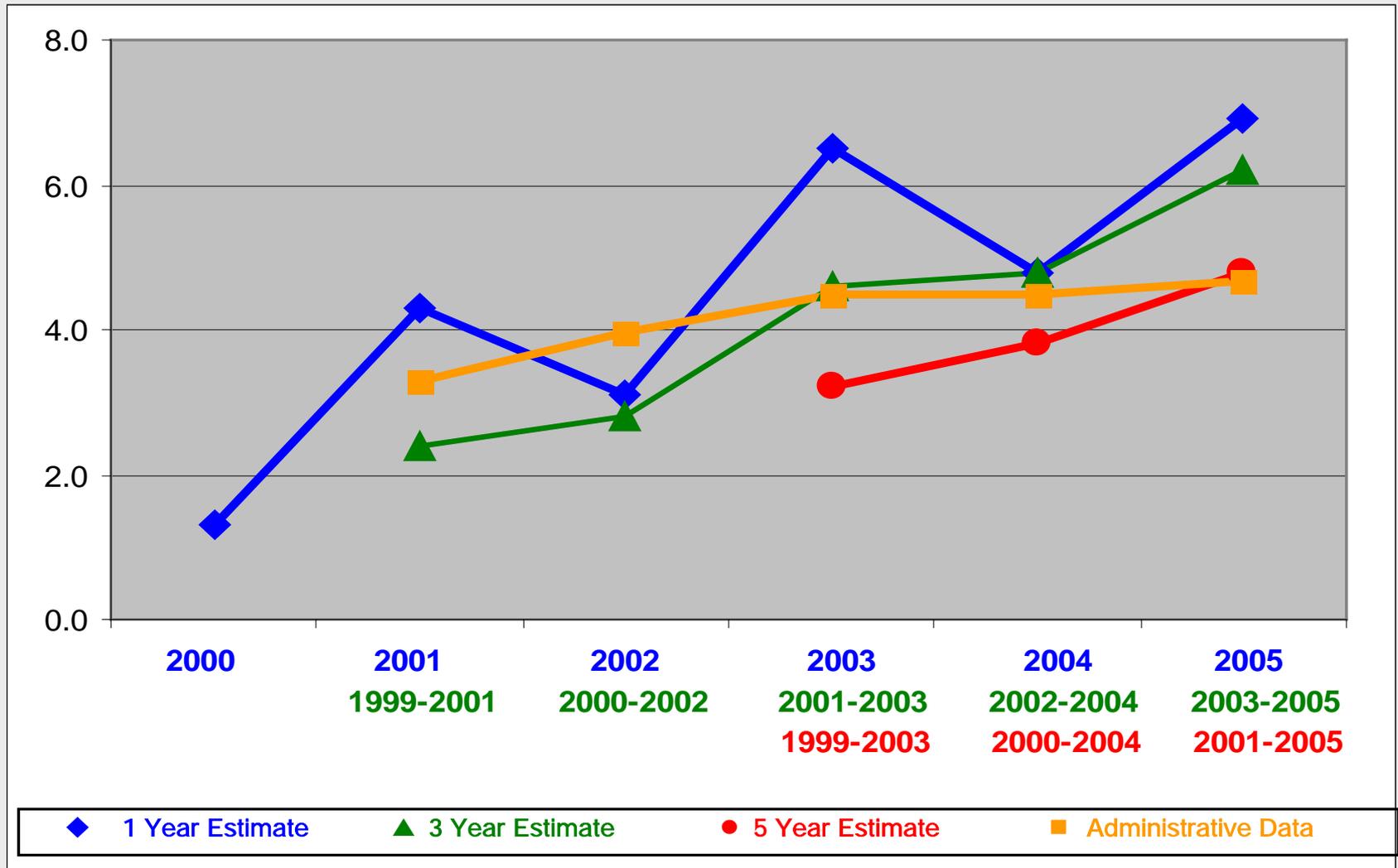
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3703



Percent of Households Receiving Food Stamp Benefits: MYEs 2000-2005 for Bronx PUMA 3703



Percent of Structures Built 1990 or Later: MYEs 2000-2005 for Bronx PUMA 3703



Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in Point: Same Geographic Area
One, Three or Five Year Estimates?
PUMA 3706*

3701

3702

Norwood

3706
Bedford
Park

Co-op
City

3703
*PELLHAM
BAY
PARK*

University
Heights

3704

3707

Morris
Heights

3705

Country
Club

3703
City
Island

High-
bridge 3708

Concourse
Village

Morrisania

3709

Schuylerville

Edgewater
Park

3710

Mott Haven

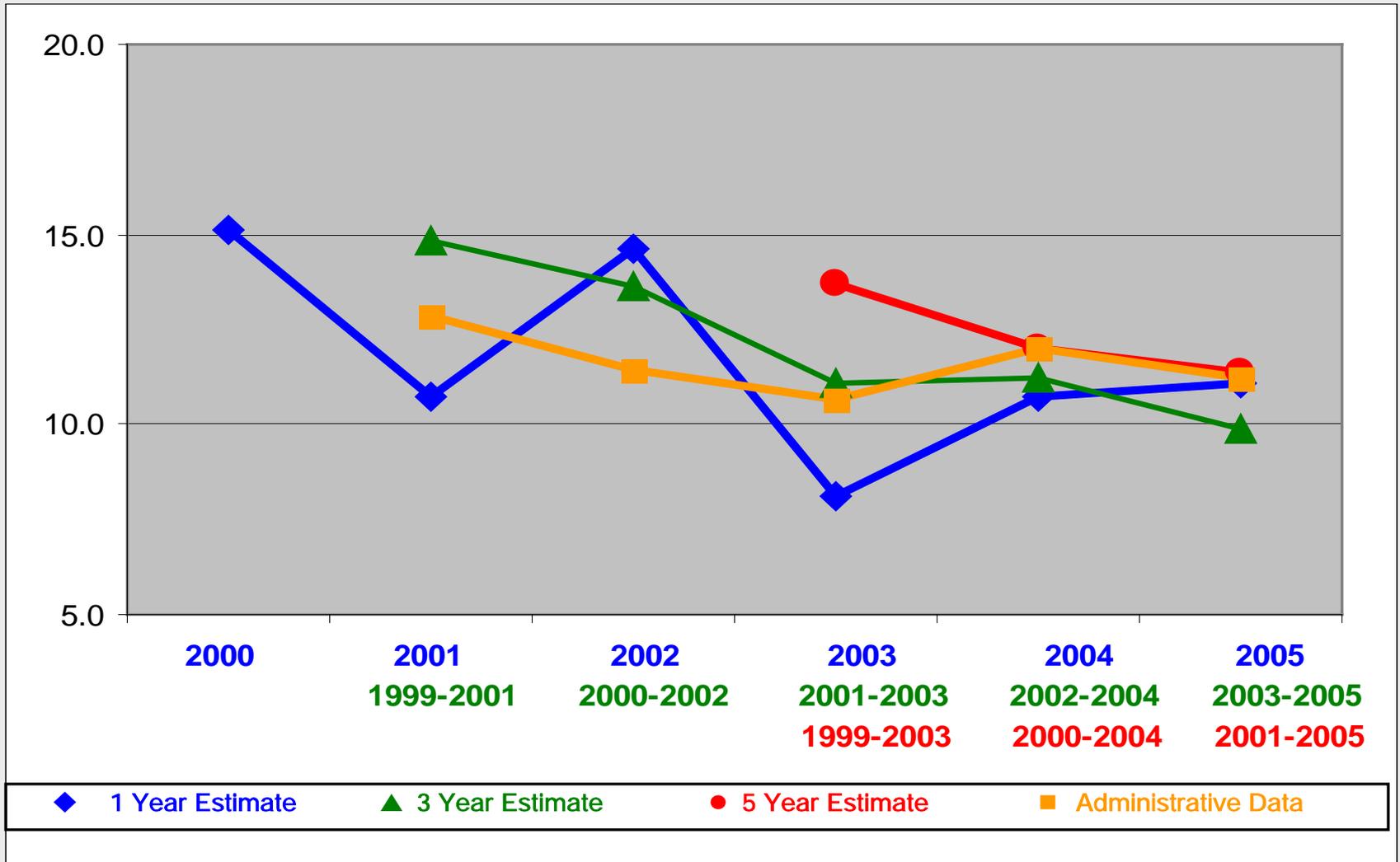
Hunts
Point

Throgs Neck

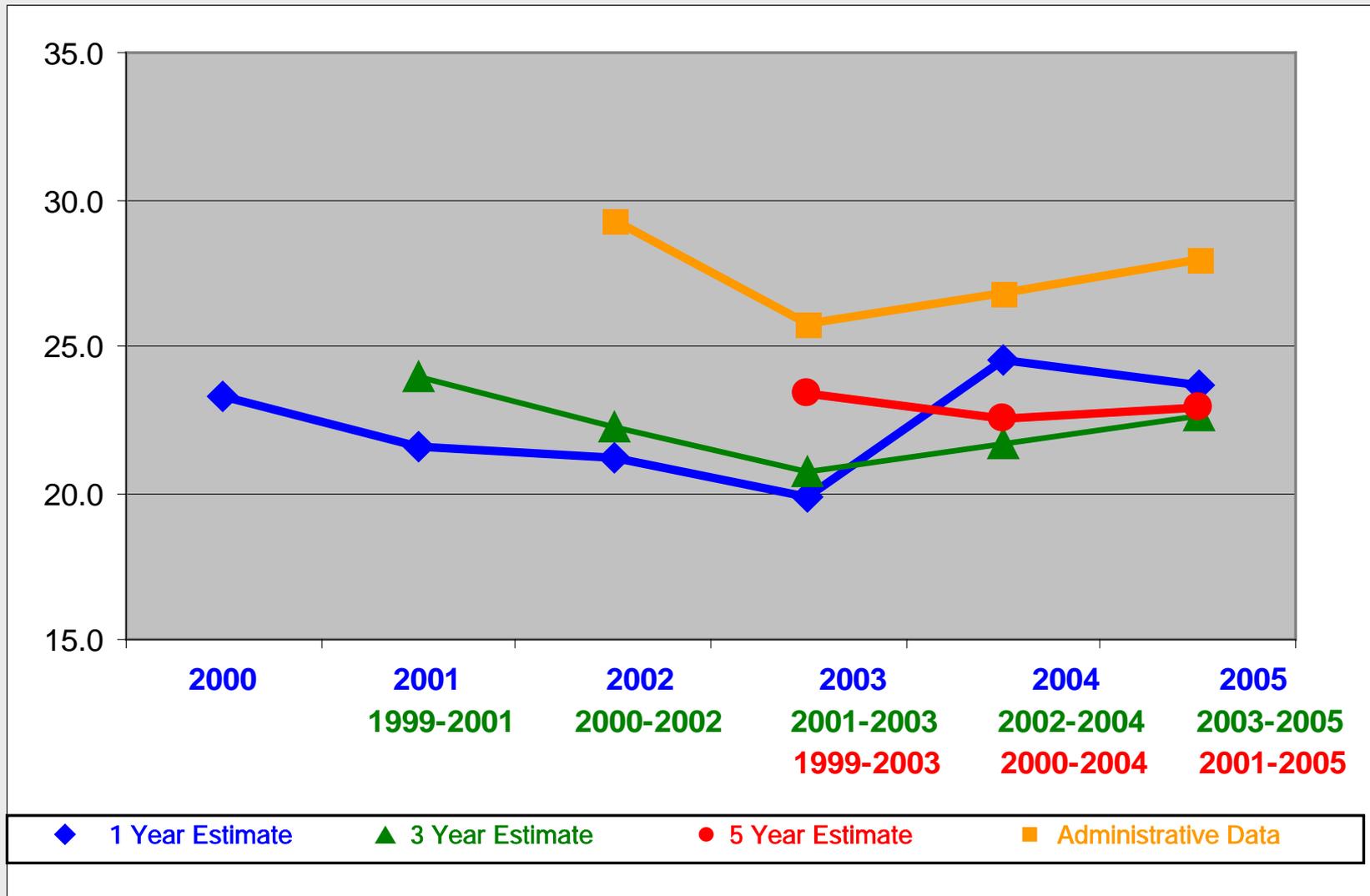
Port
Morris

3710
*RIKER'S
ISLAND*

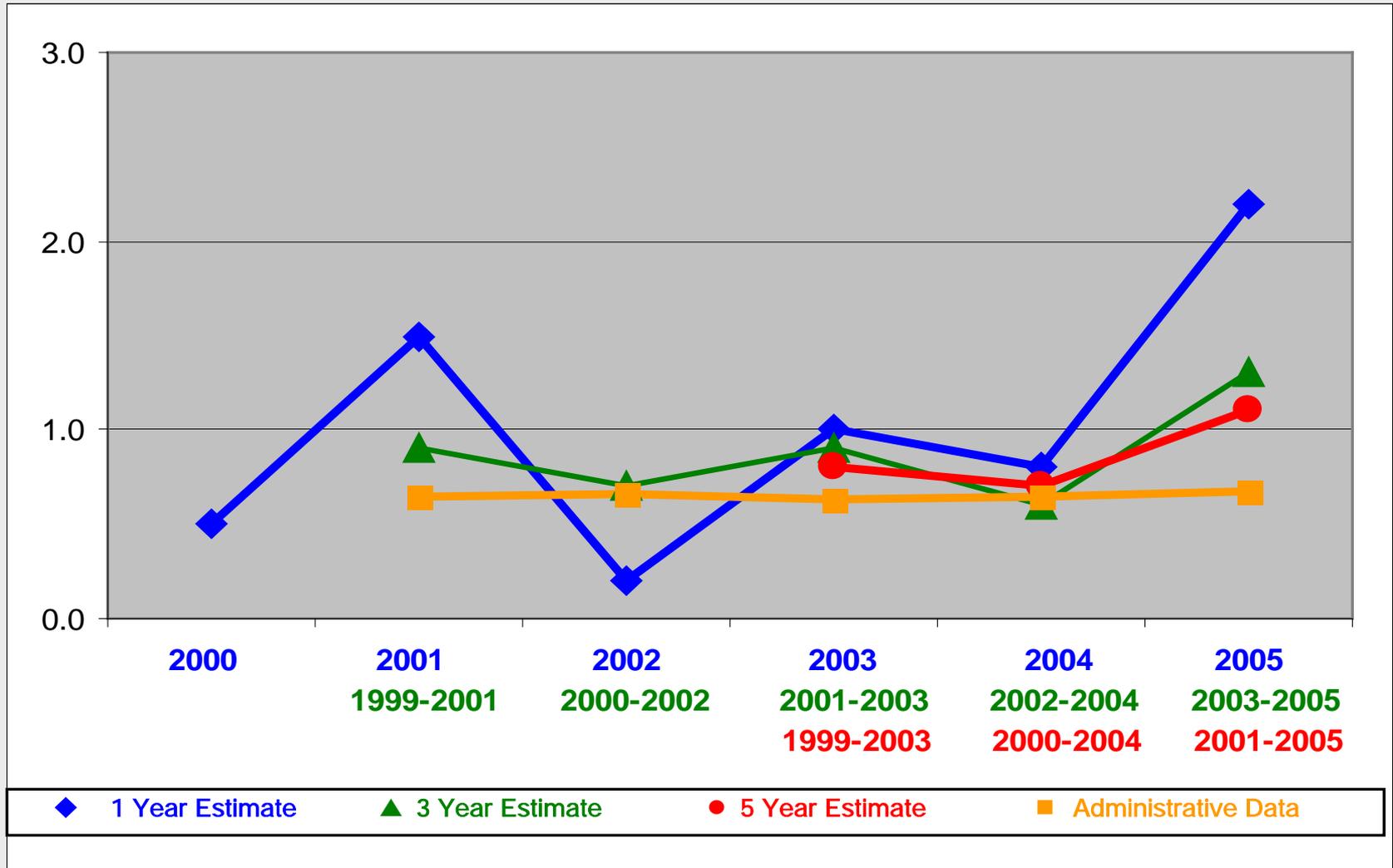
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3706



Percent of Households Receiving Food Stamp Benefits: MYEs 2000-2005 for Bronx PUMA 3706



Percent of Structures Built 1990 or Later: MYEs 2000-2005 for Bronx PUMA 3706



Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in Point: Same Geographic Area
One, Three or Five Year Estimates?
PUMA 3708*

3701

3702

Norwood

Co-op
City

3703
*PELHAM
BAY
PARK*

3706
Bedford
Park

University
Heights

3704

3707

Morris
Heights

3705

Country
Club

3703
City
Island

High-
bridge 3708

3703

Concourse
Village

Morrisania

3709

Schuylerville

Edgewater
Park

3710

Throgs Neck

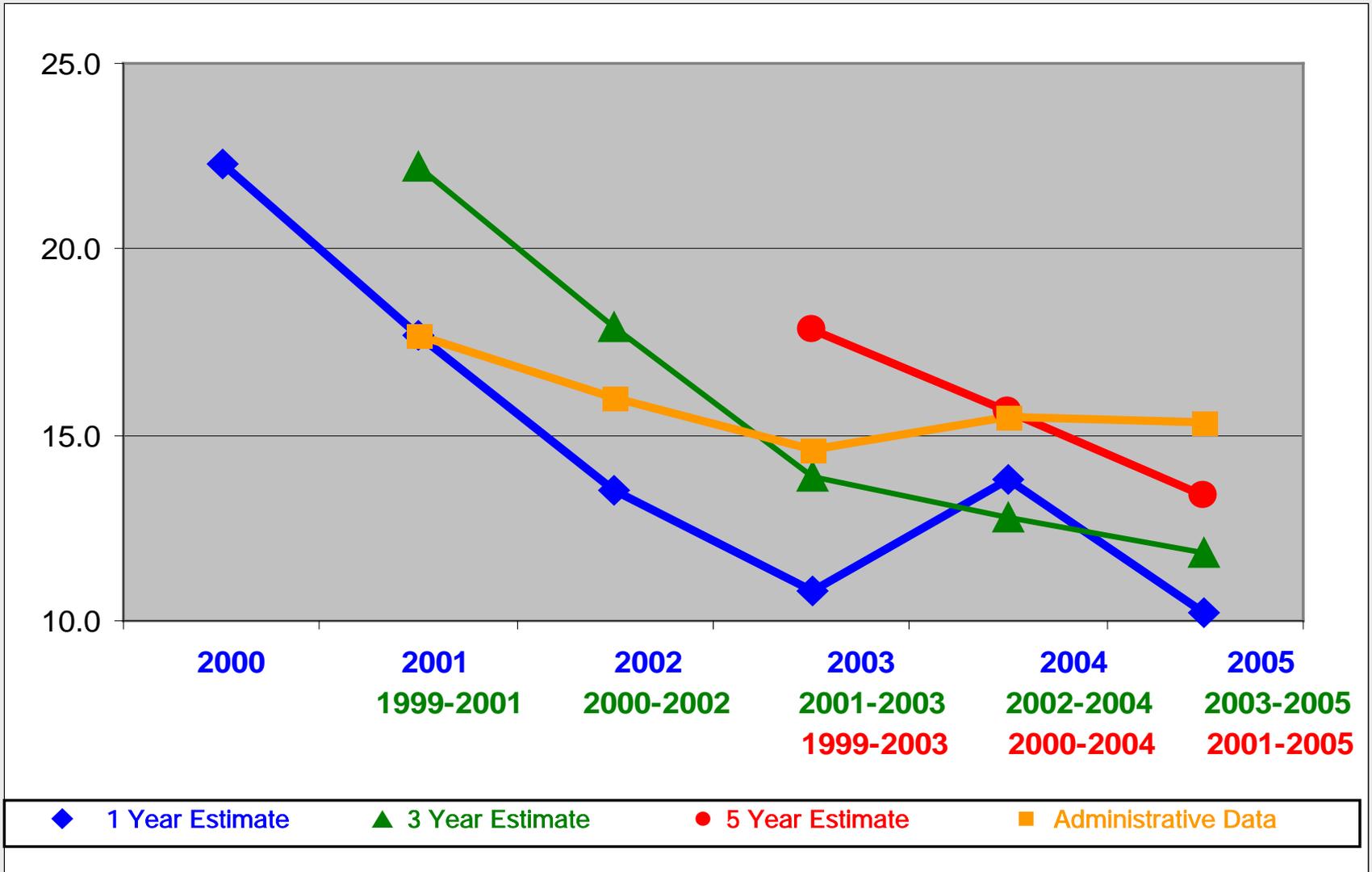
Mott Haven

Hunts
Point

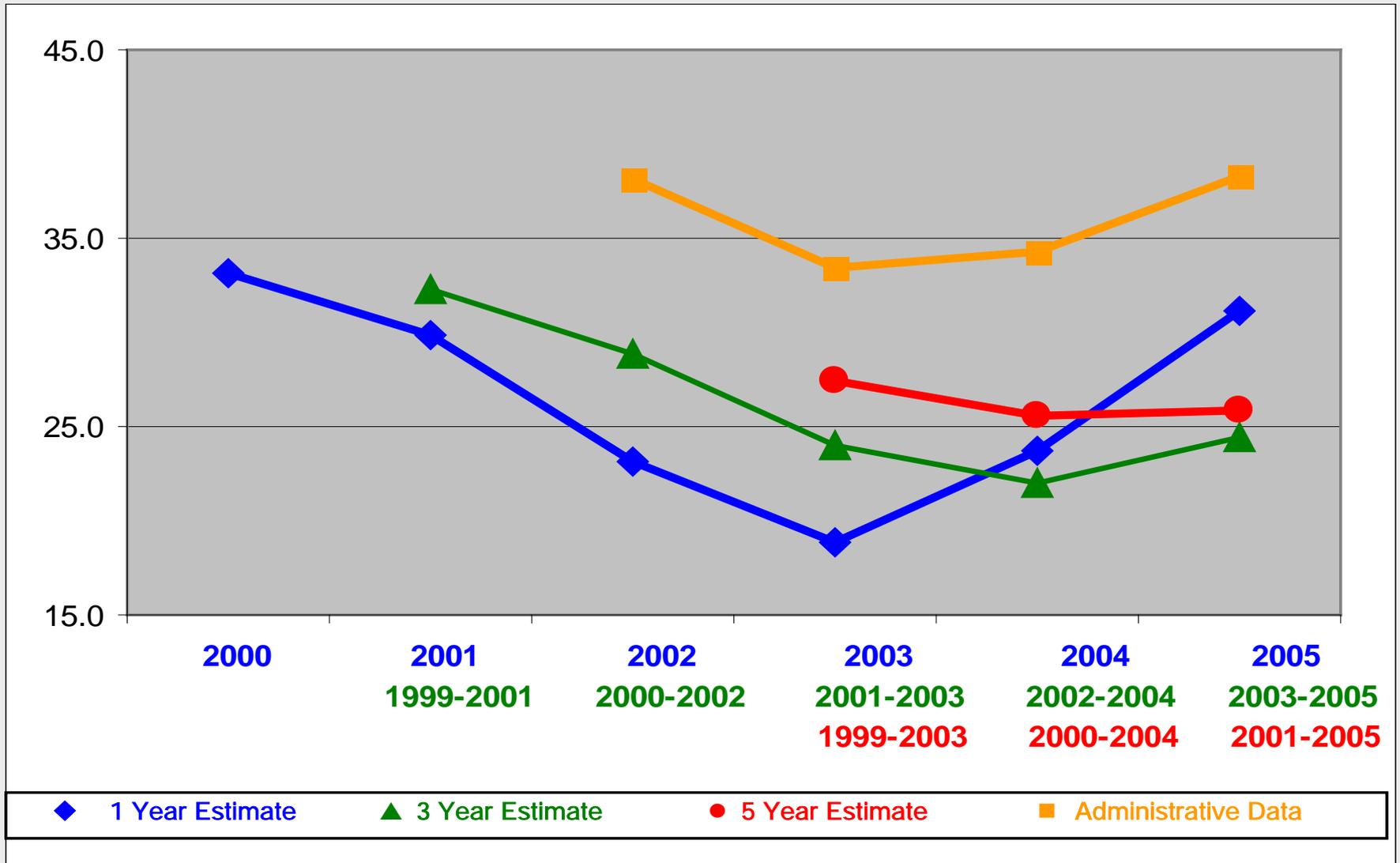
Port
Morris

3710
*ROKER'S
ISLAND*

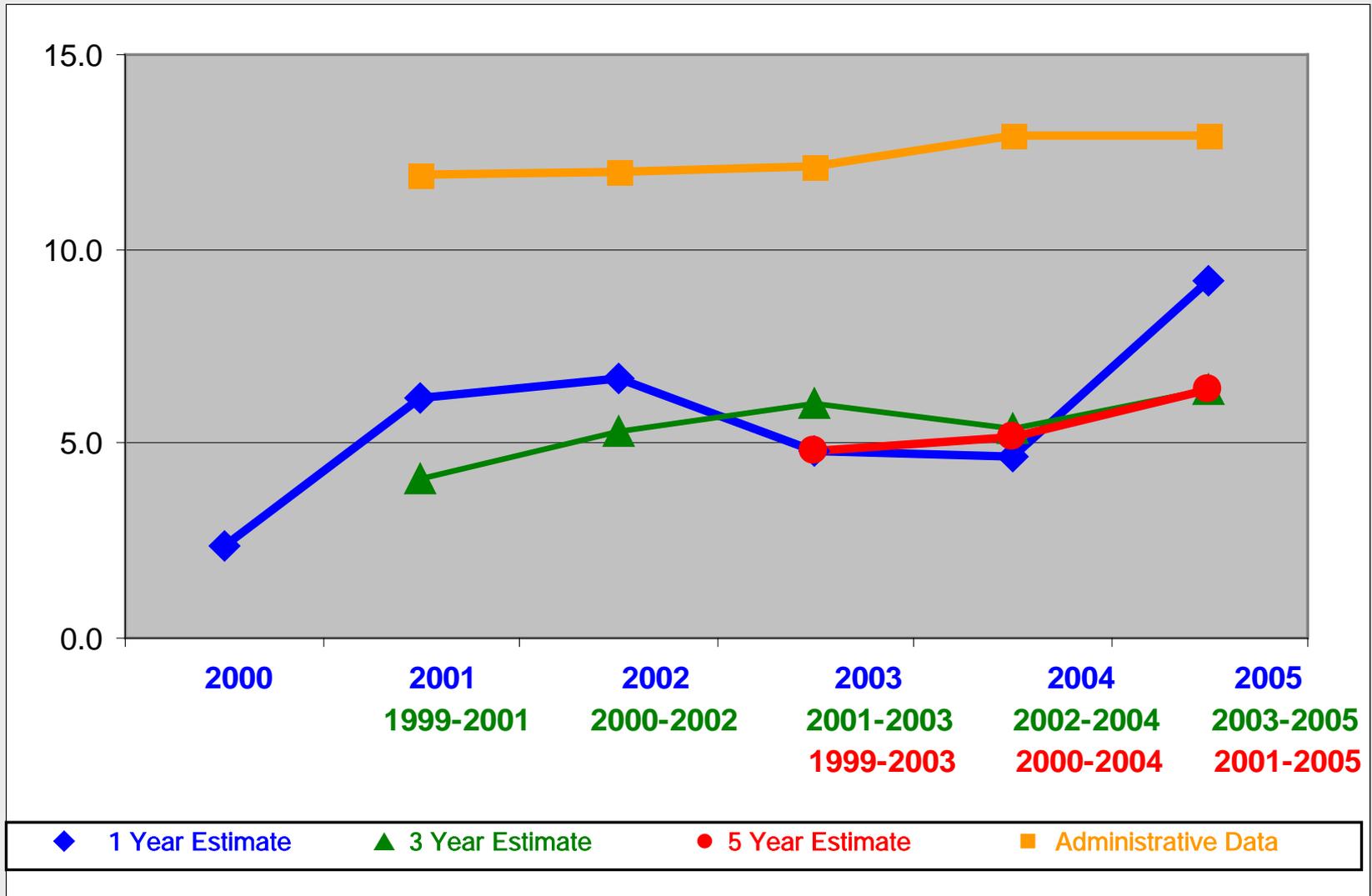
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3708



Percent of Households Receiving Food Stamp Benefits: MYEs 2000-2005 for Bronx PUMA 3708



Percent of Structures Built 1990 or Later: MYEs 2000-2005 for Bronx PUMA 3708



Data User Issues

- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- *Case in Point: Same Geographic Area
One, Three or Five Year Estimates?
PUMA 3710*

3701

3702

Norwood

3706
Bedford
Park

Co-op
City

3703
*PELHAM
BAY
PARK*

University
Heights

3707

3704

Morris
Heights

3705

Country
Club

3703
City
Island

High-
bridge 3708

3703

Concourse
Village

Morrisania

3709

Schuylerville

Edgewater
Park

3710

Throgs Neck

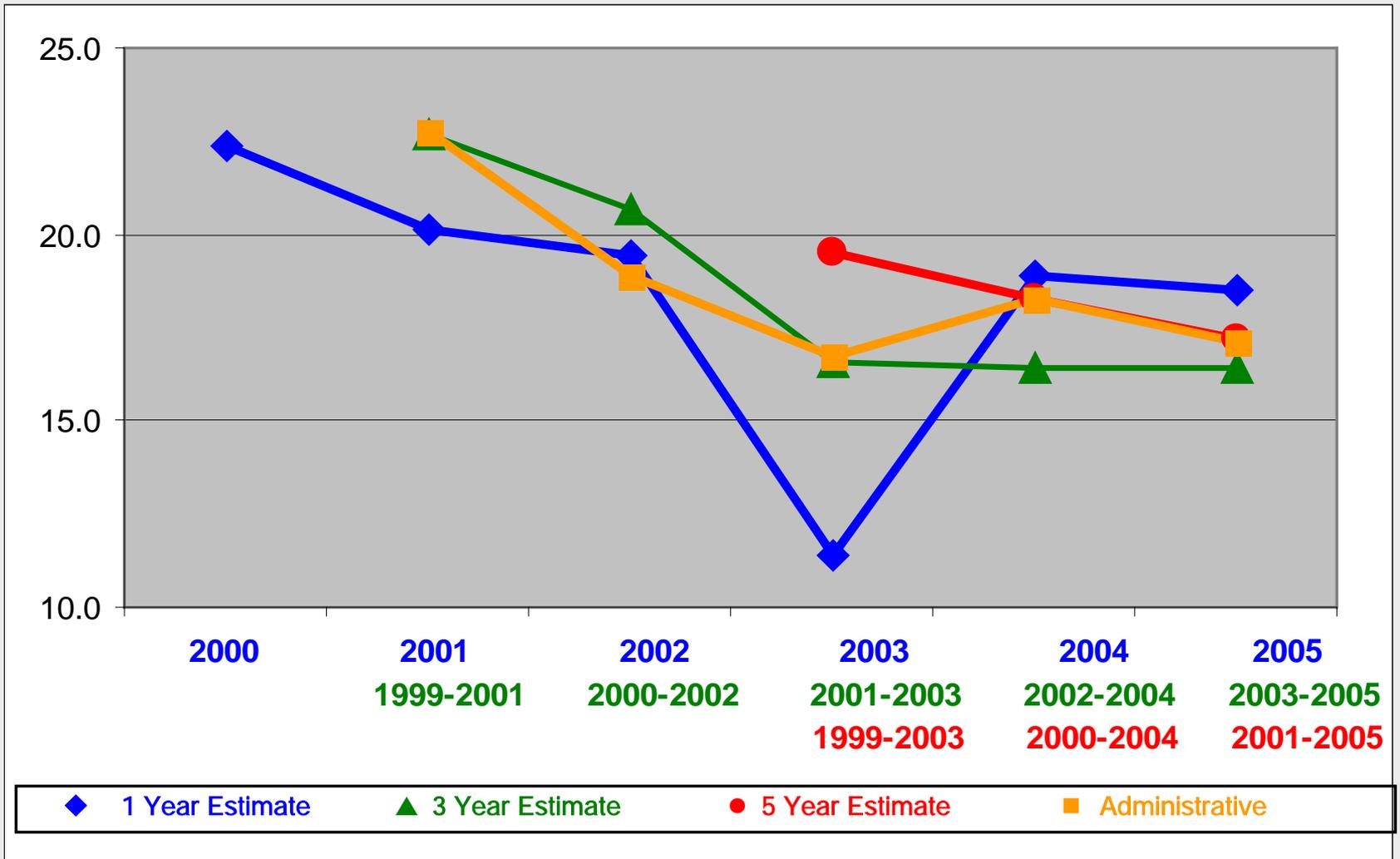
Mott Haven

Hunts
Point

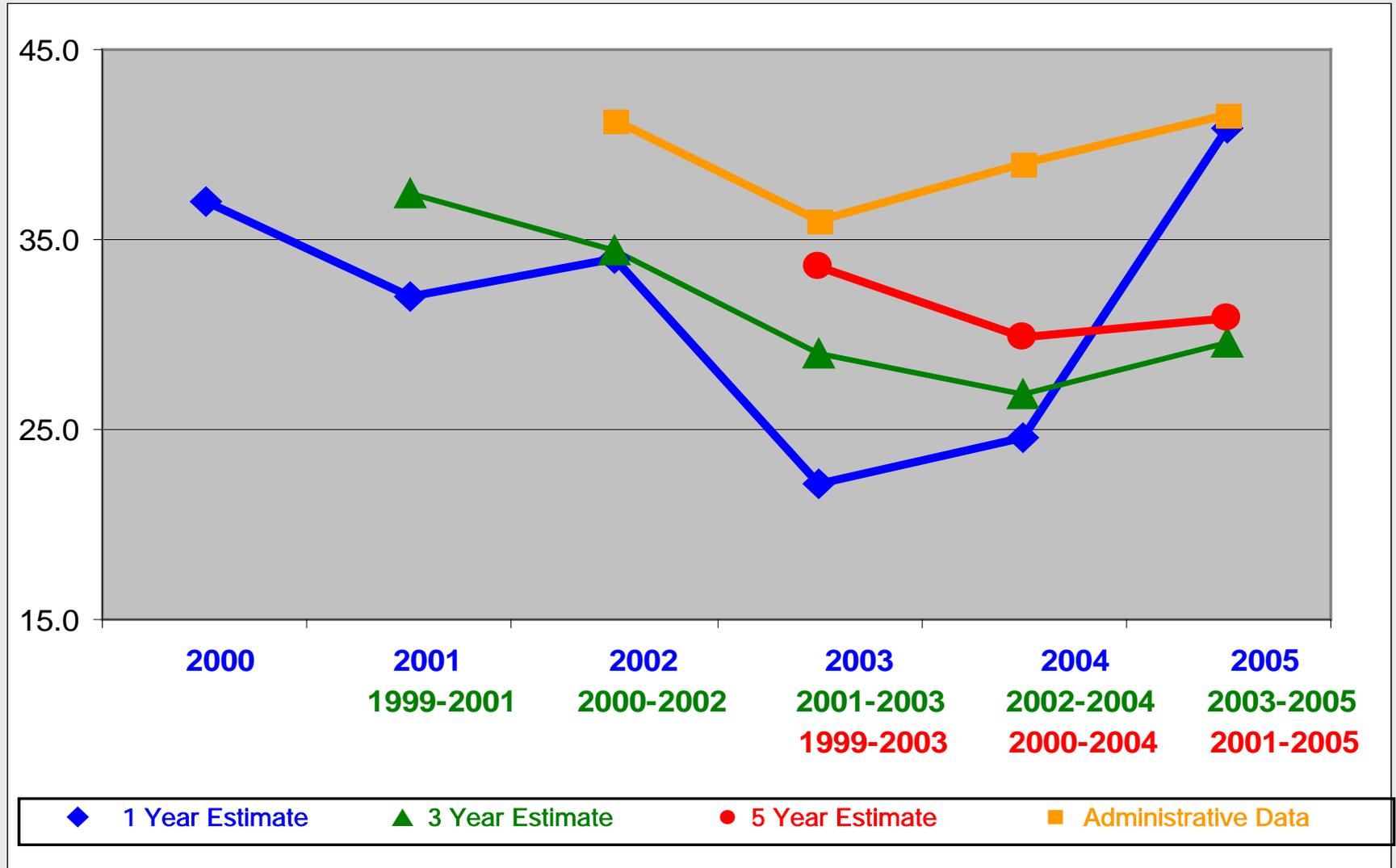
Port
Morris

3710
*RIKER'S
ISLAND*

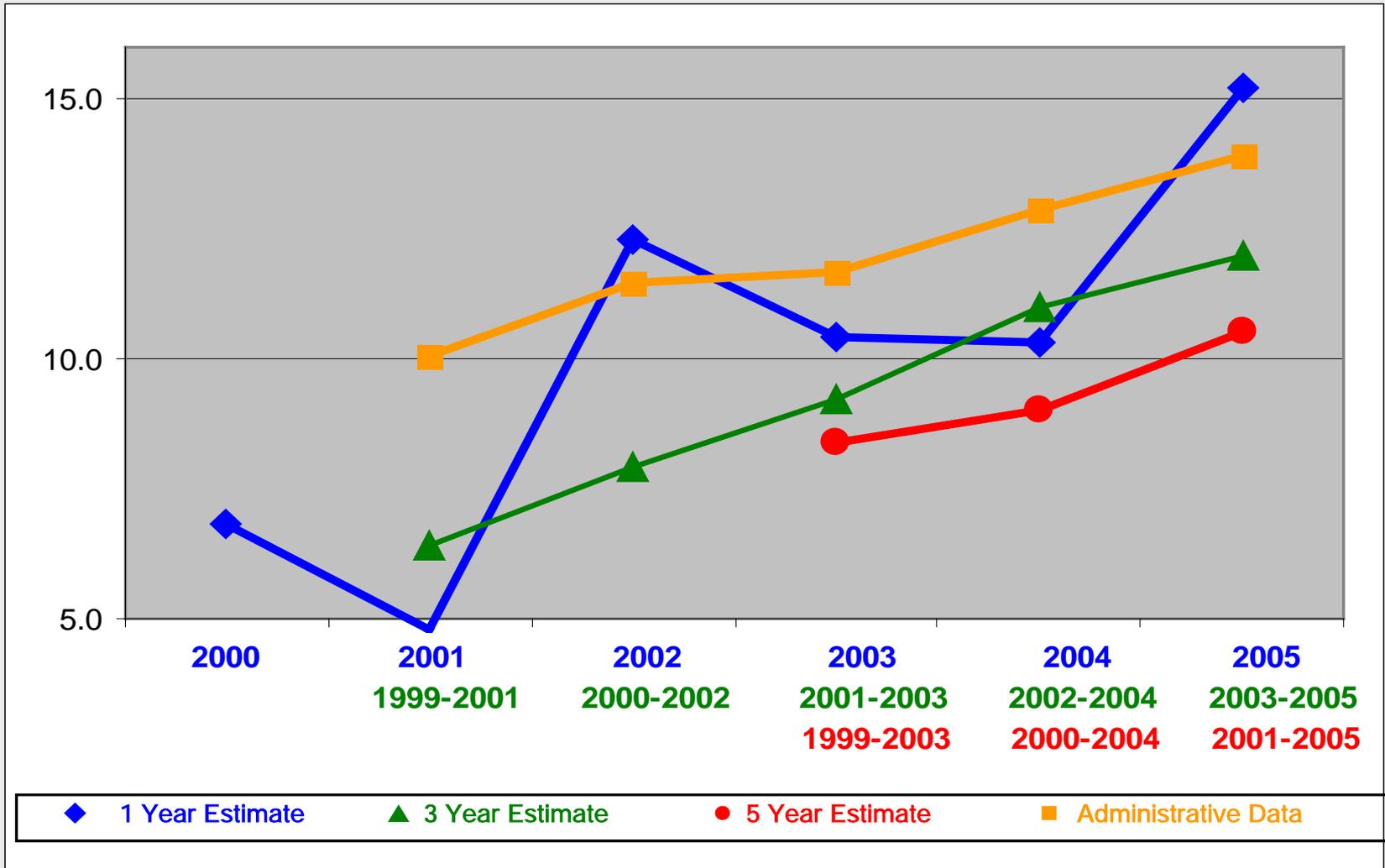
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3710



Percent of Households Receiving Food Stamp Benefits: MYEs 2000-2005 for Bronx PUMA 3710



Percent of Structures Built 1990 or Later: MYEs 2000-2005 for Bronx PUMA 3710

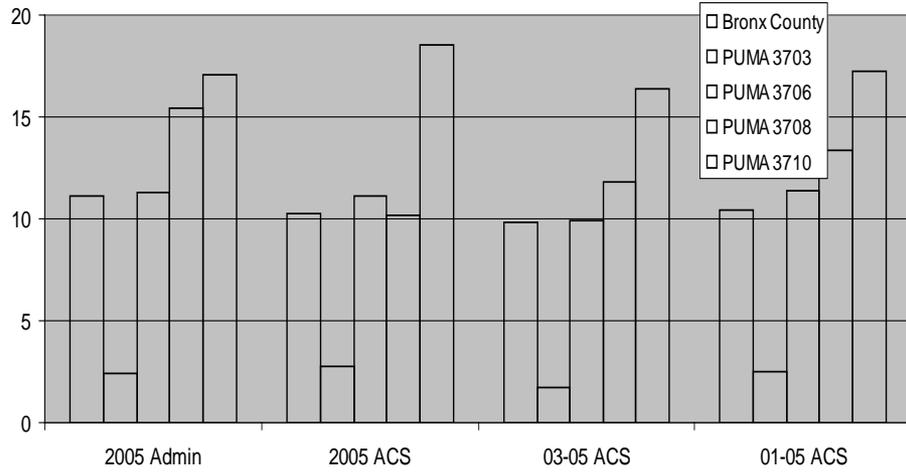


Data User Issues

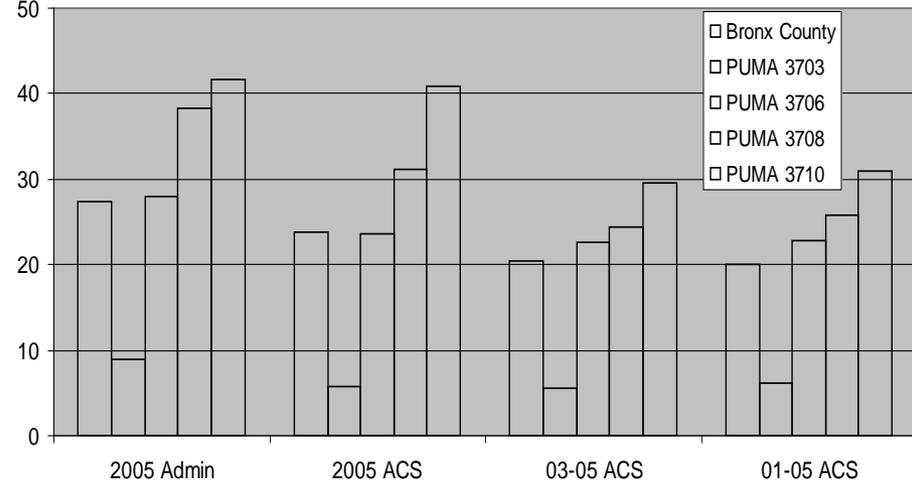
- Using the one, three, or five year estimates: optimizing the tradeoff between timeliness and accuracy
- Comparing MYEs *across* geographic areas during the “same” time

Identifying Areas in Transition Using Different Multi-Year Estimates

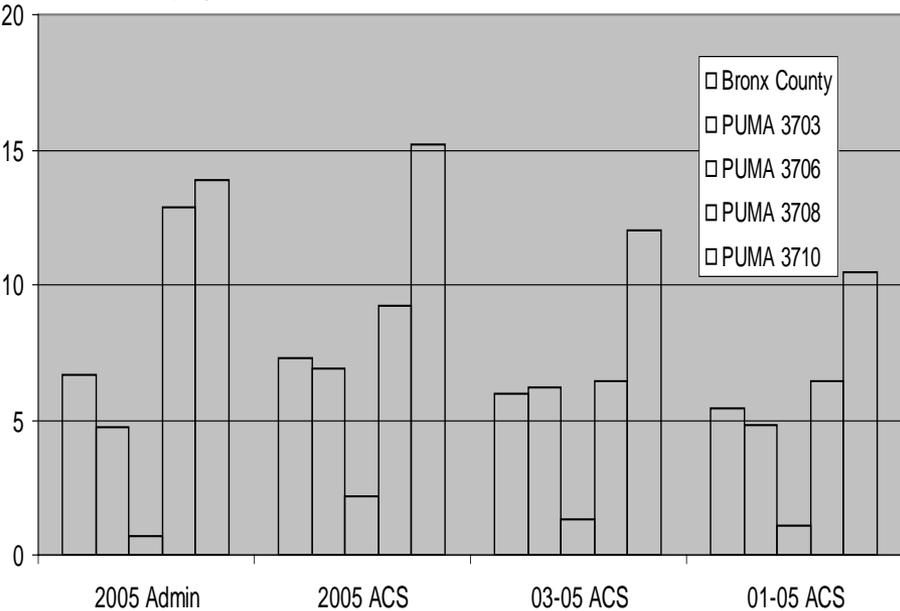
Targeting High Need Areas: Percent Households Receiving Public Assistance



Targeting High Need Areas: Percent Households Receiving Food Stamps



Identifying Areas in Transition: Percent of Structures Built 1990 or Later



Targeting High Need Areas: Percent of Population Under 5

