Evaluating A.C.S. Multi-Year Estimates

For Sub-County Areas in the Bronx

2007 Census Bureau ACS Review
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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

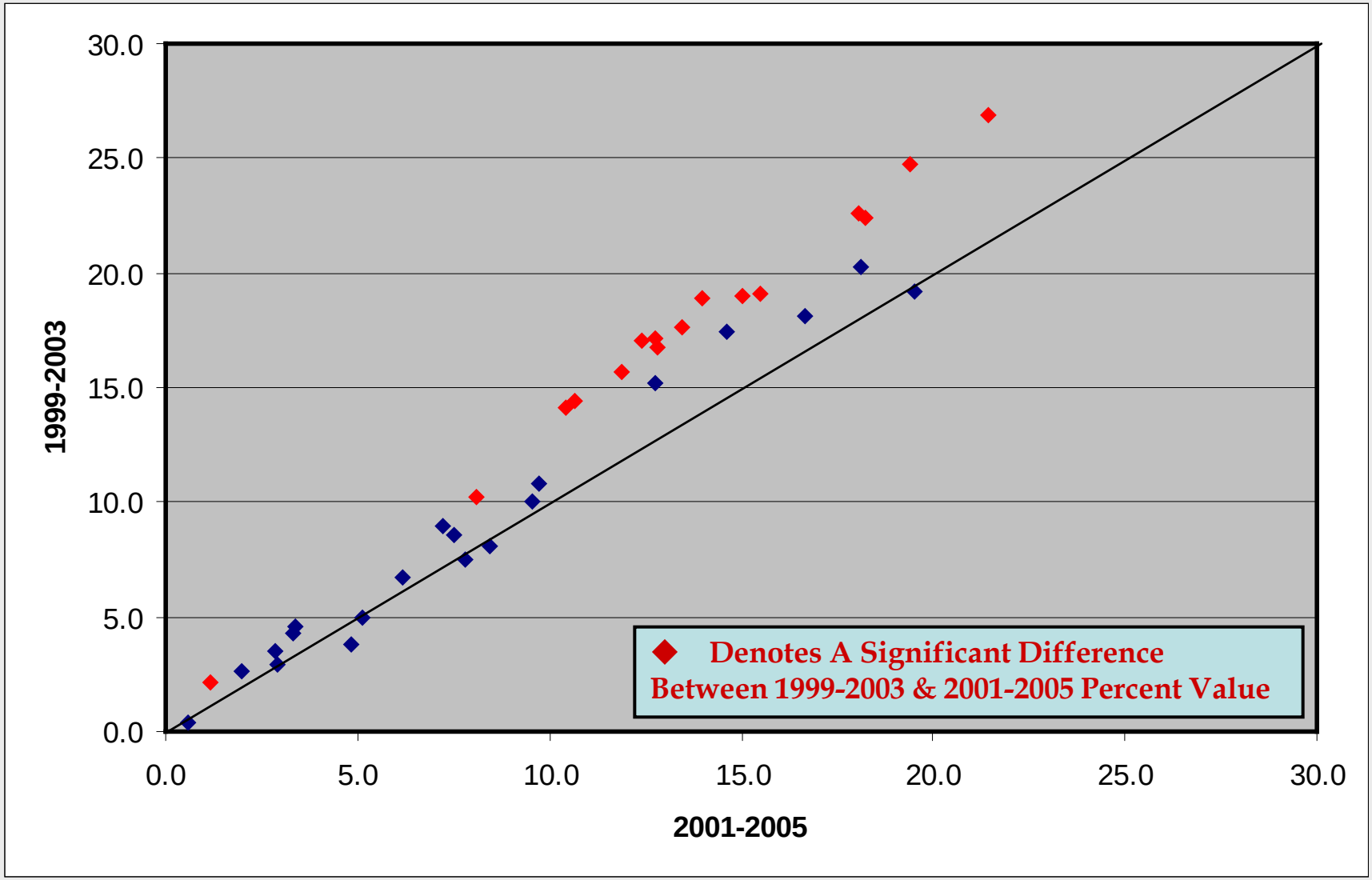
- ***Case in point: Measuring Change at the Neighborhood Level***

Bronx
Park

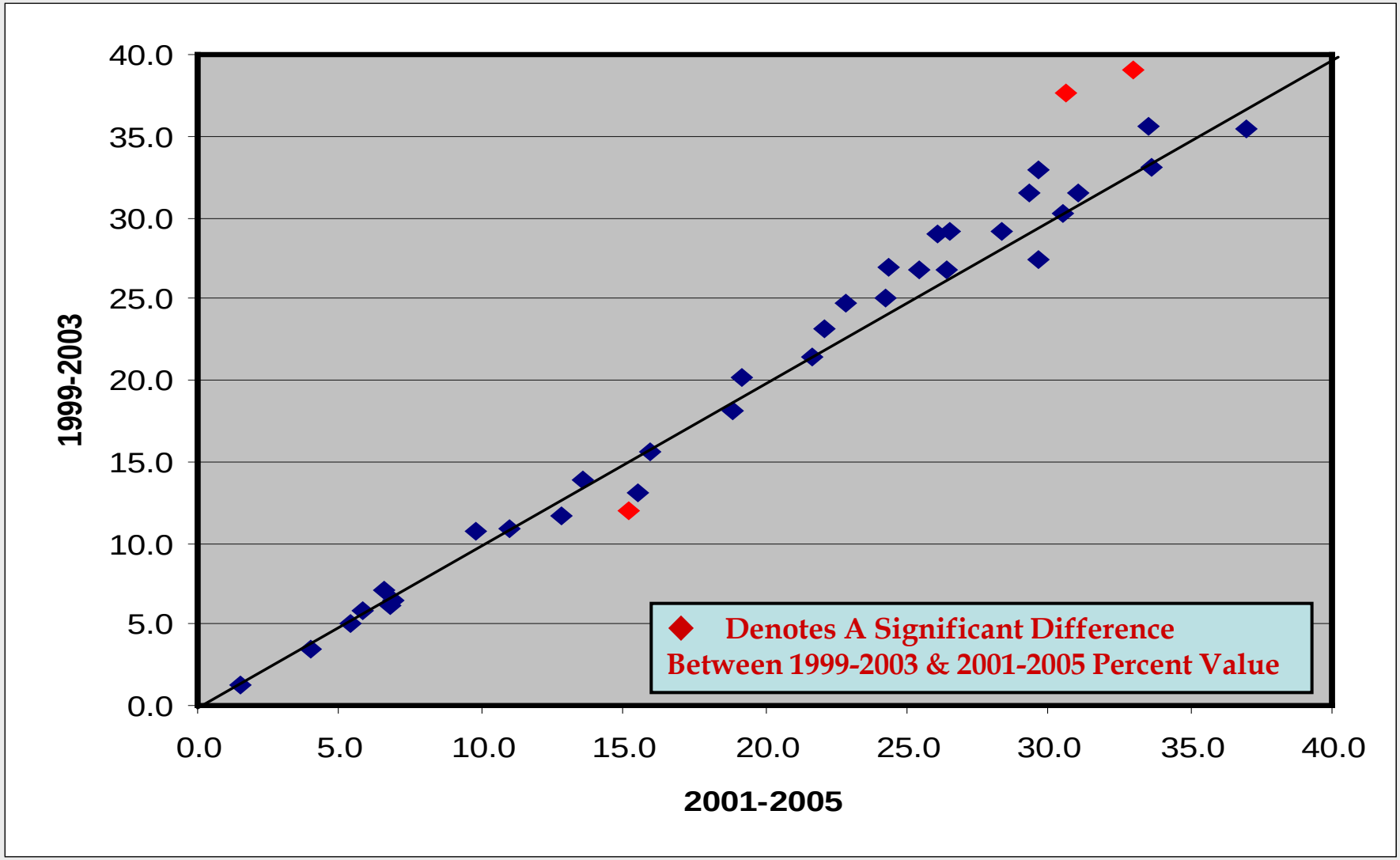
Pelham
Bay
Park

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***

Public

3701

3702

Norwood

Co-op City

3703

3706

Bedford Park

PELHAM BAY PARK

University Heights

3704

3707

3703

City Island

Morris Heights

3705

Country Club

3703

High-bridge

3708

Schuylerville

3709

Concourse Village

Morrisania

Edgewater Park

Throgs Neck

3710

Mott Haven

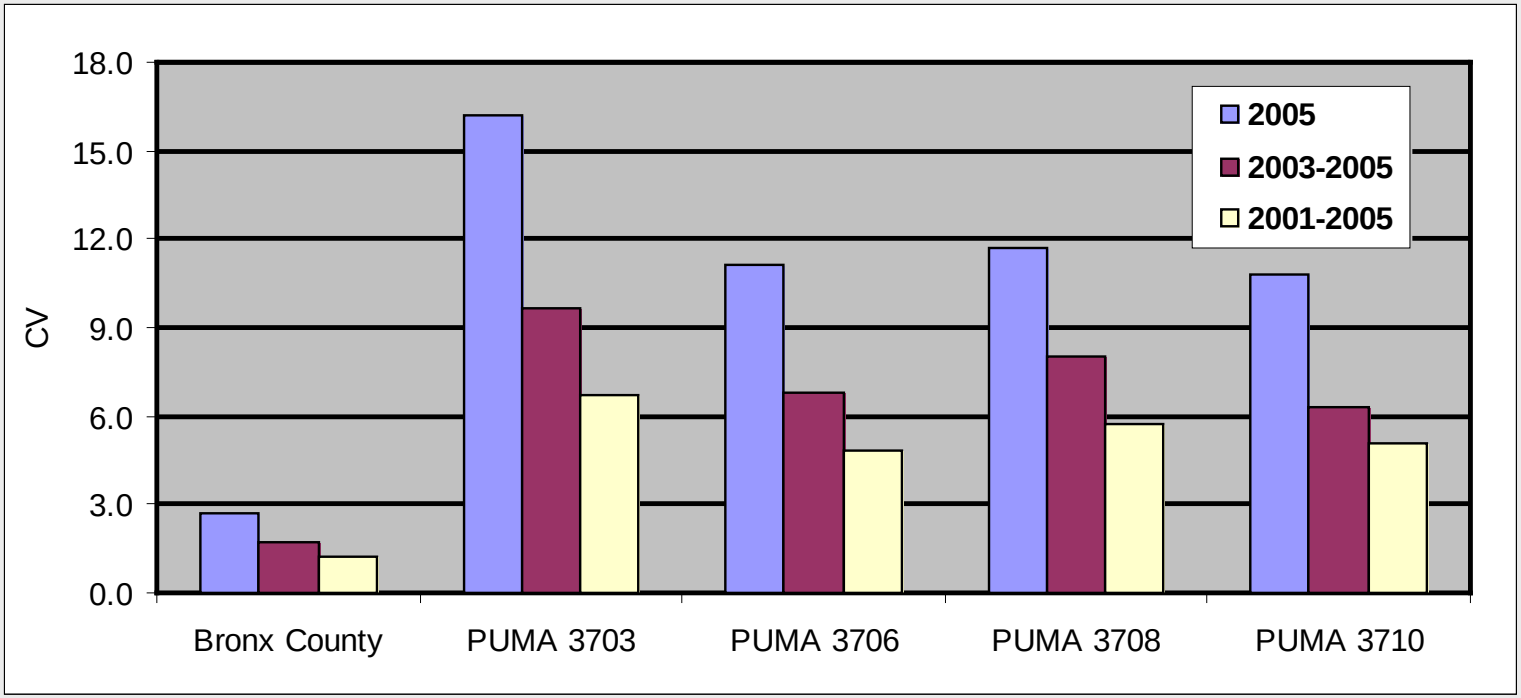
Hunts Point

Port Morris

3710

RIKER'S ISLAND

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

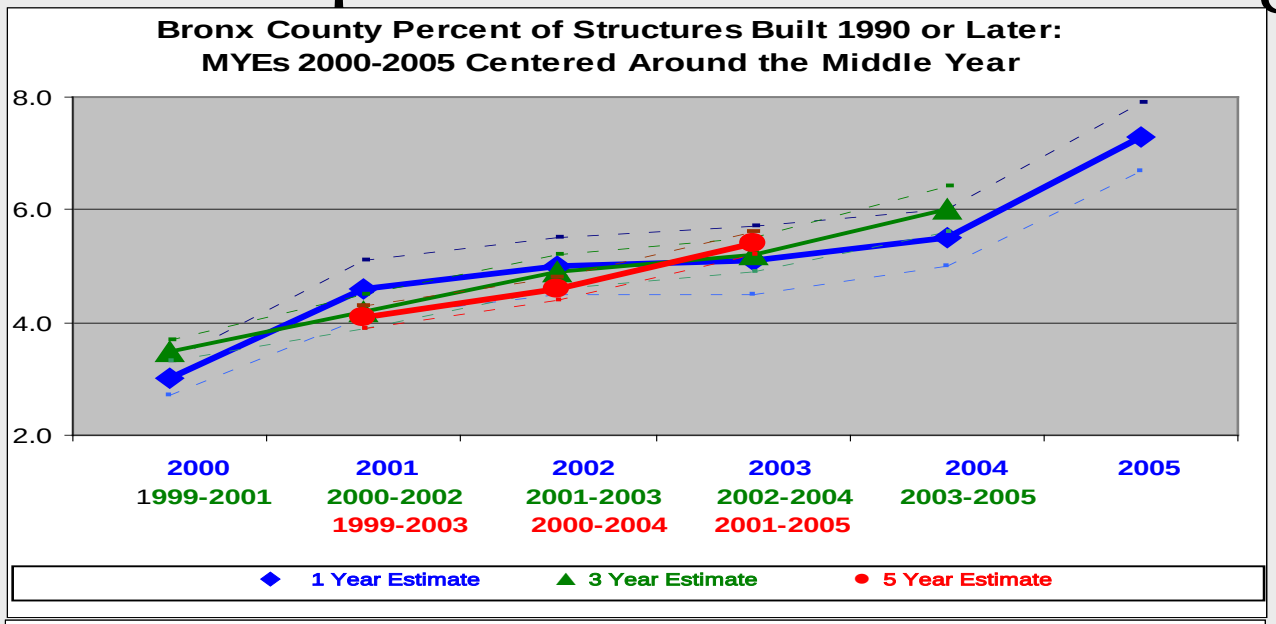
1 to 3 Year	*1 to 5 Year*	*3 to 5 Year*
35.0	**53.5**	**28.4**
40.2	58.6	30.8
39.2	56.5	28.5
31.6	51.1	28.5
41.4	53.0	19.7

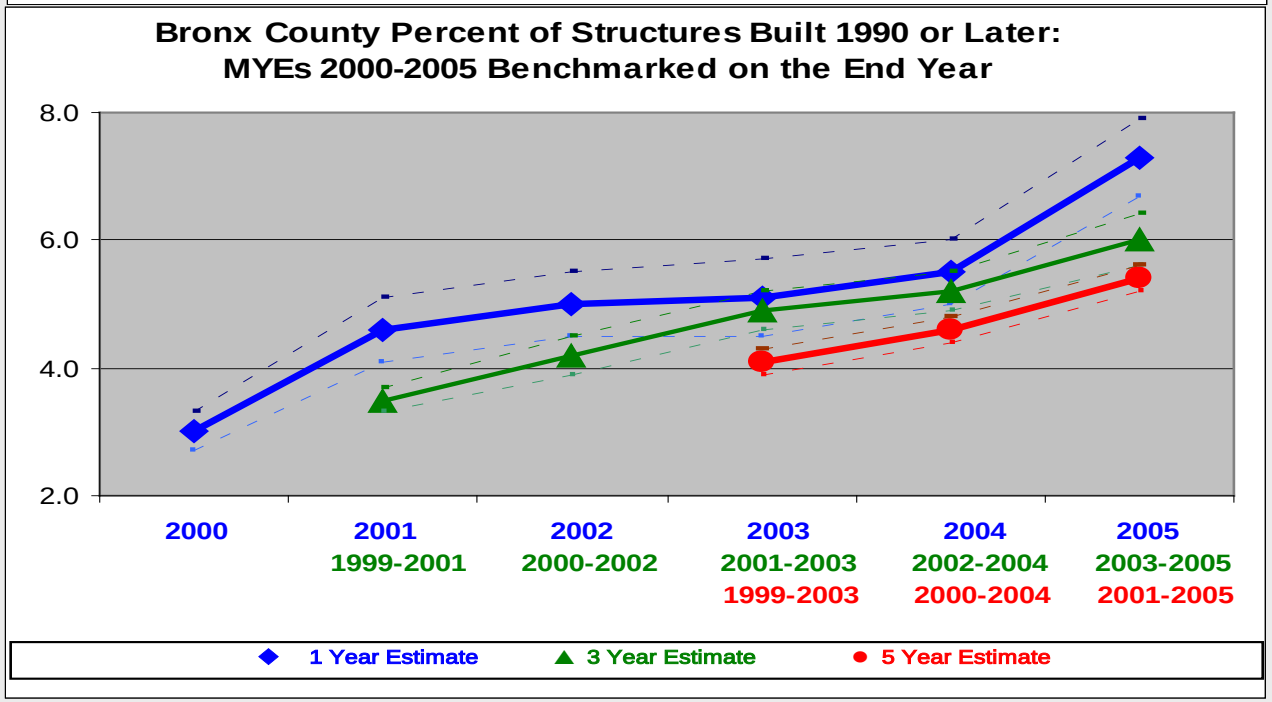
Data User Issues

- 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

Co-op City

3703

PELHAM BAY PARK

3706

Bedford Park

University Heights

3704

3707

3703

City Island

Morris Heights

3705

Country Club

3703

High-bridge

3708

Schuylerville

Concourse Village

Morrisania

3709

Edgewater Park

Throgs Neck

3710

Mott Haven

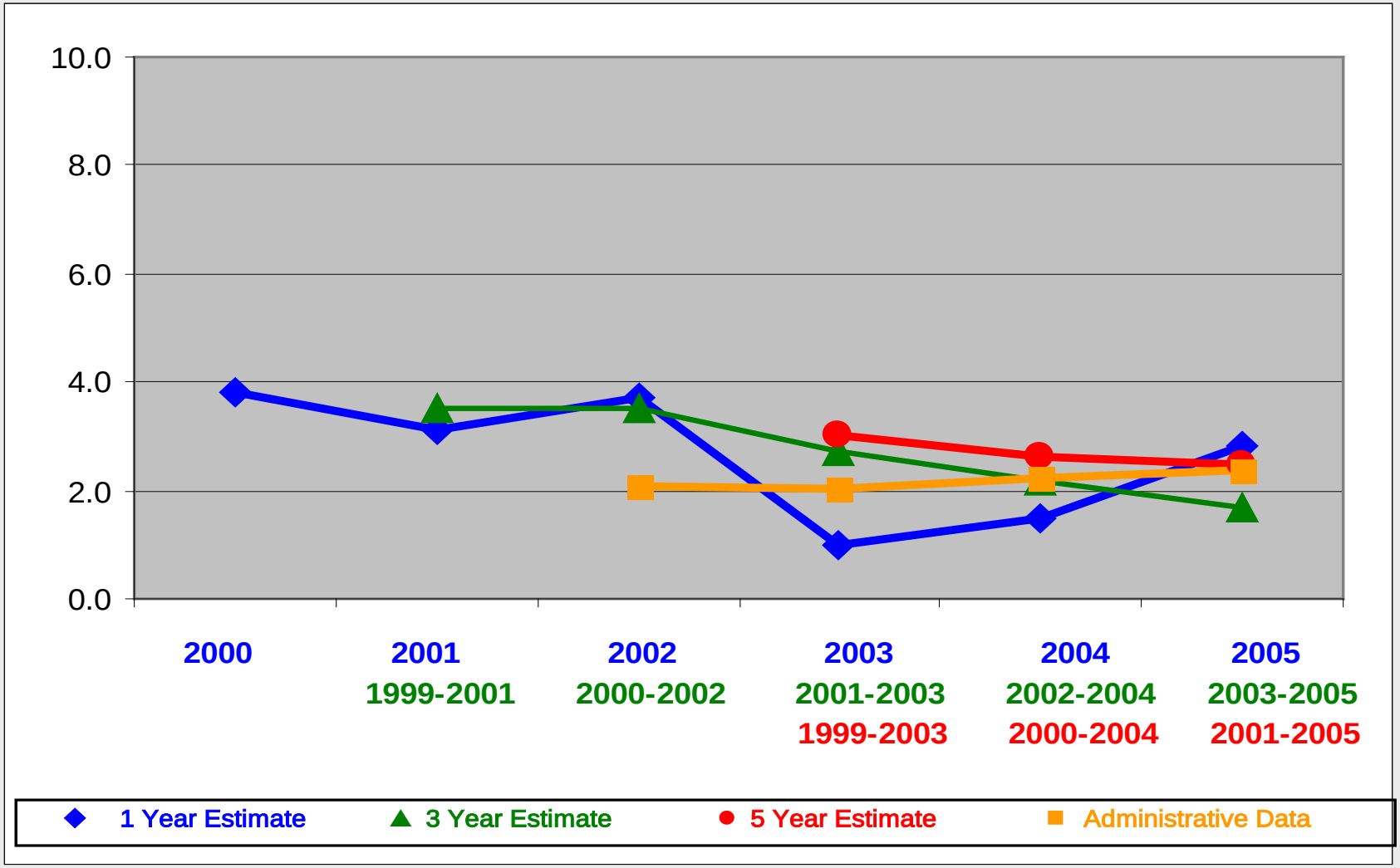
Hunts Point

Port Morris

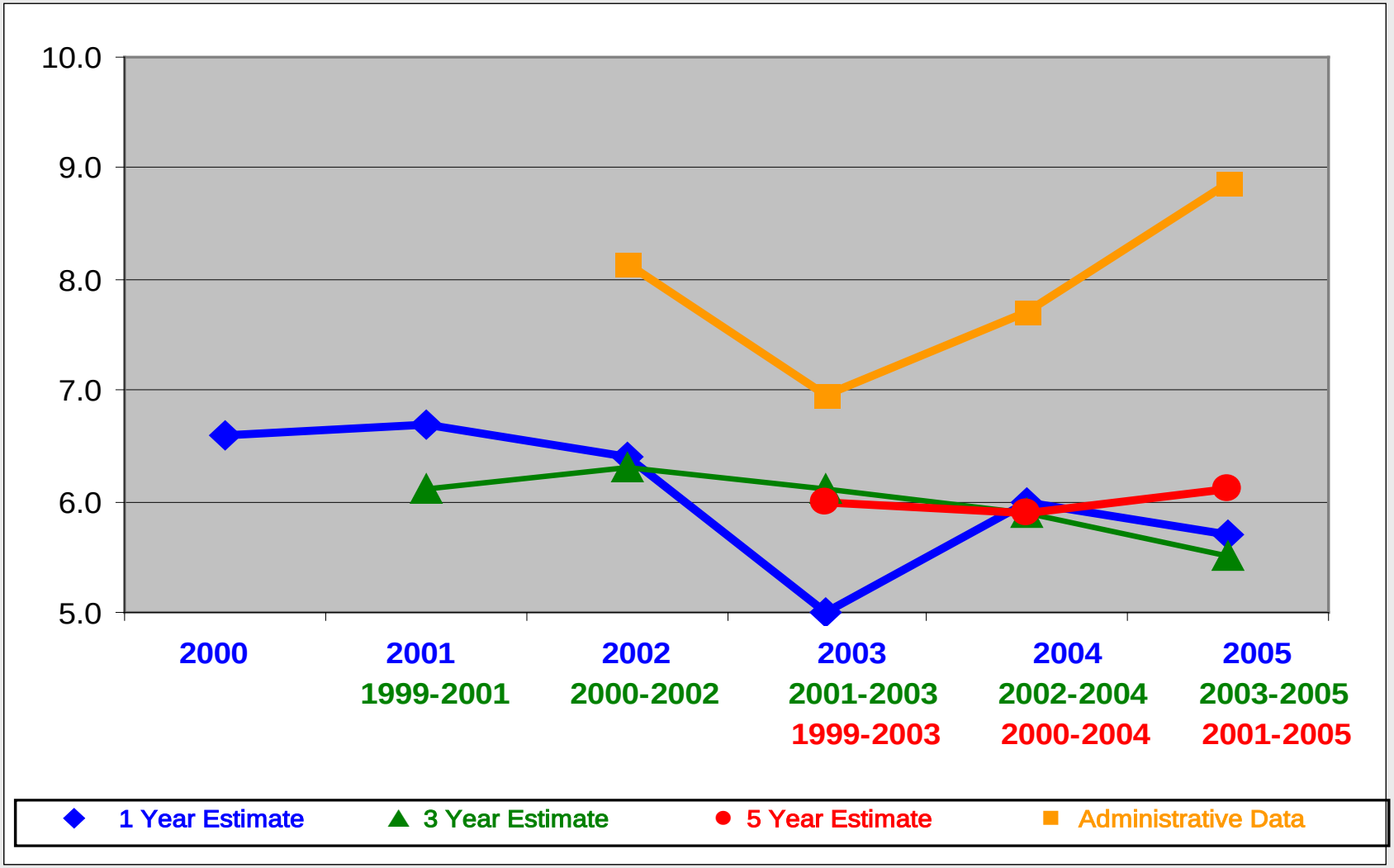
3710

RIKER'S ISLAND

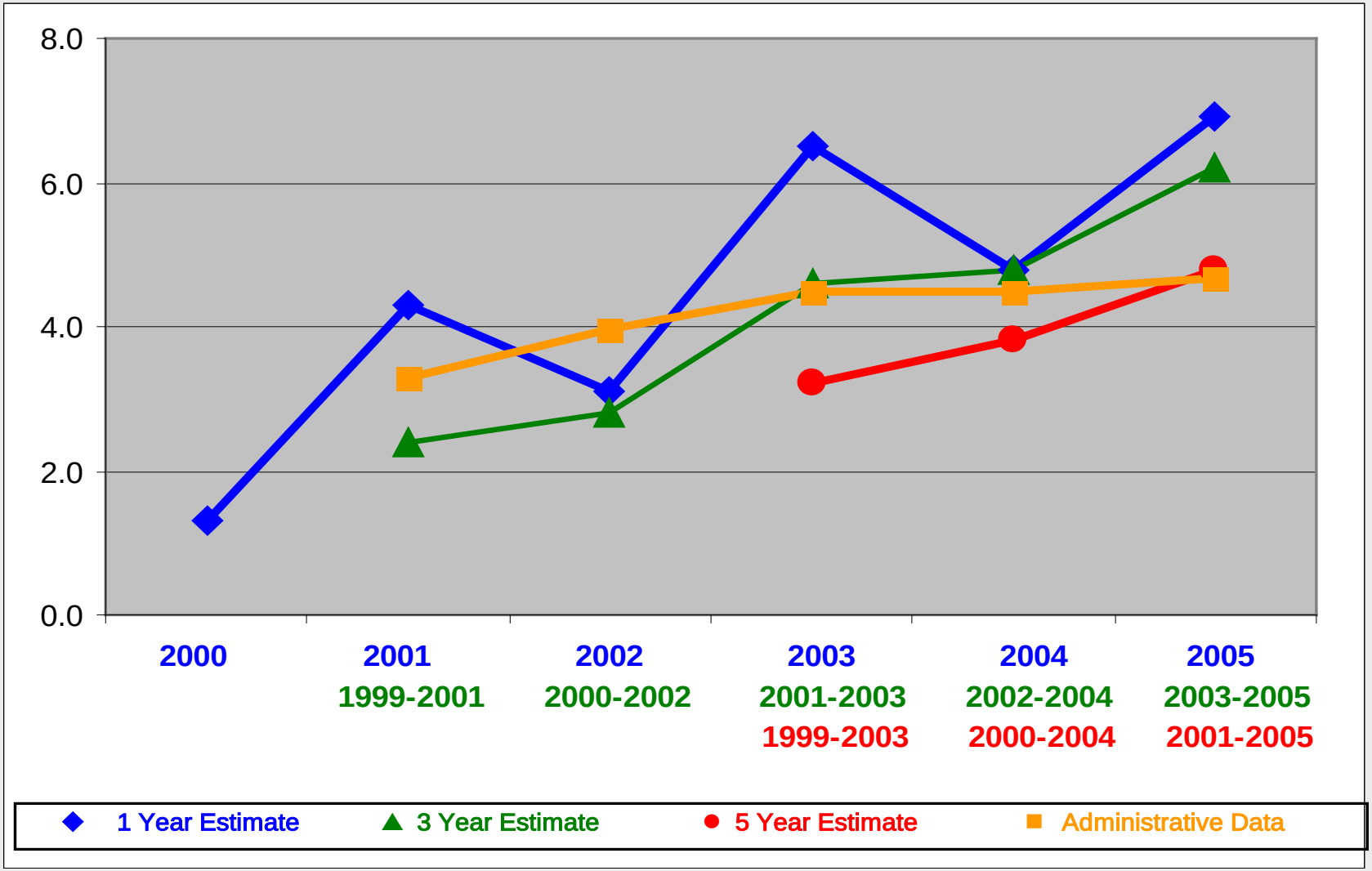
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3703



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

Co-op City

3703

PELHAM BAY PARK

3706

Bedford Park

University Heights

3704

3707

Morris Heights

3703

City Island

3705

Country Club

3703

High-bridge

3708

Schuylerville

Concourse Village

Morrisania

3709

Edgewater Park

Throgs Neck

3710

Mott Haven

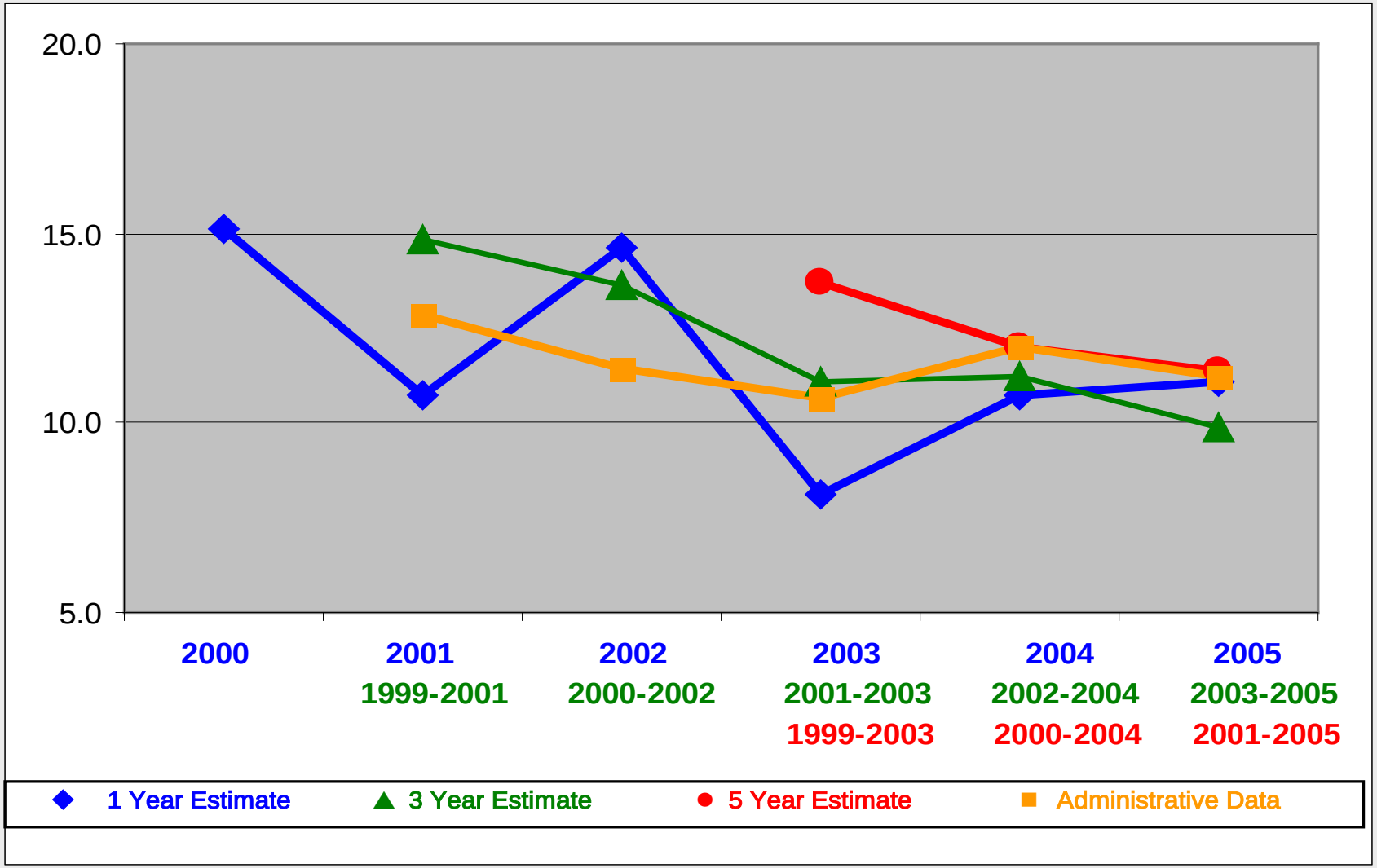
Hunts Point

Port Morris

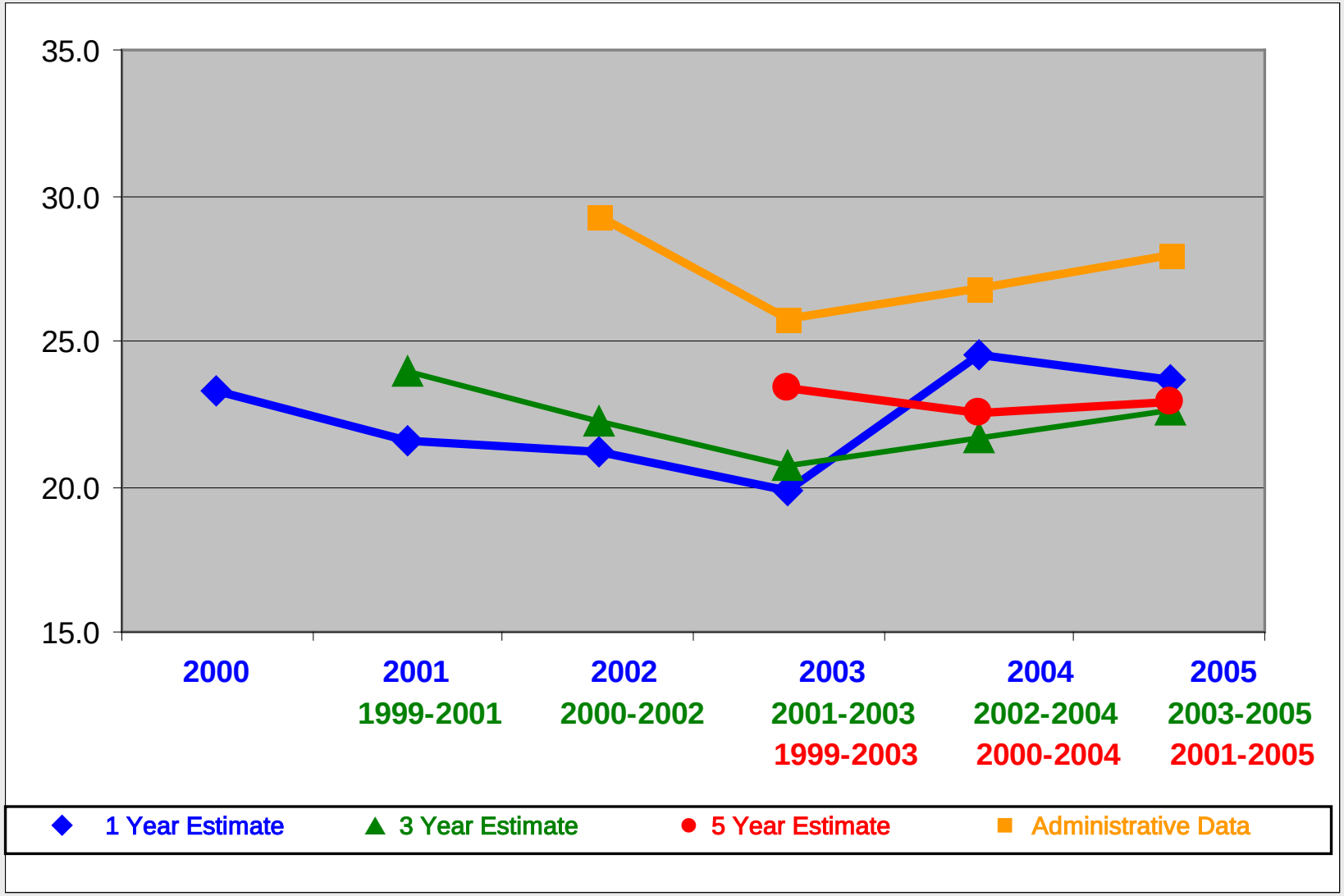
3710

RIKER'S ISLAND

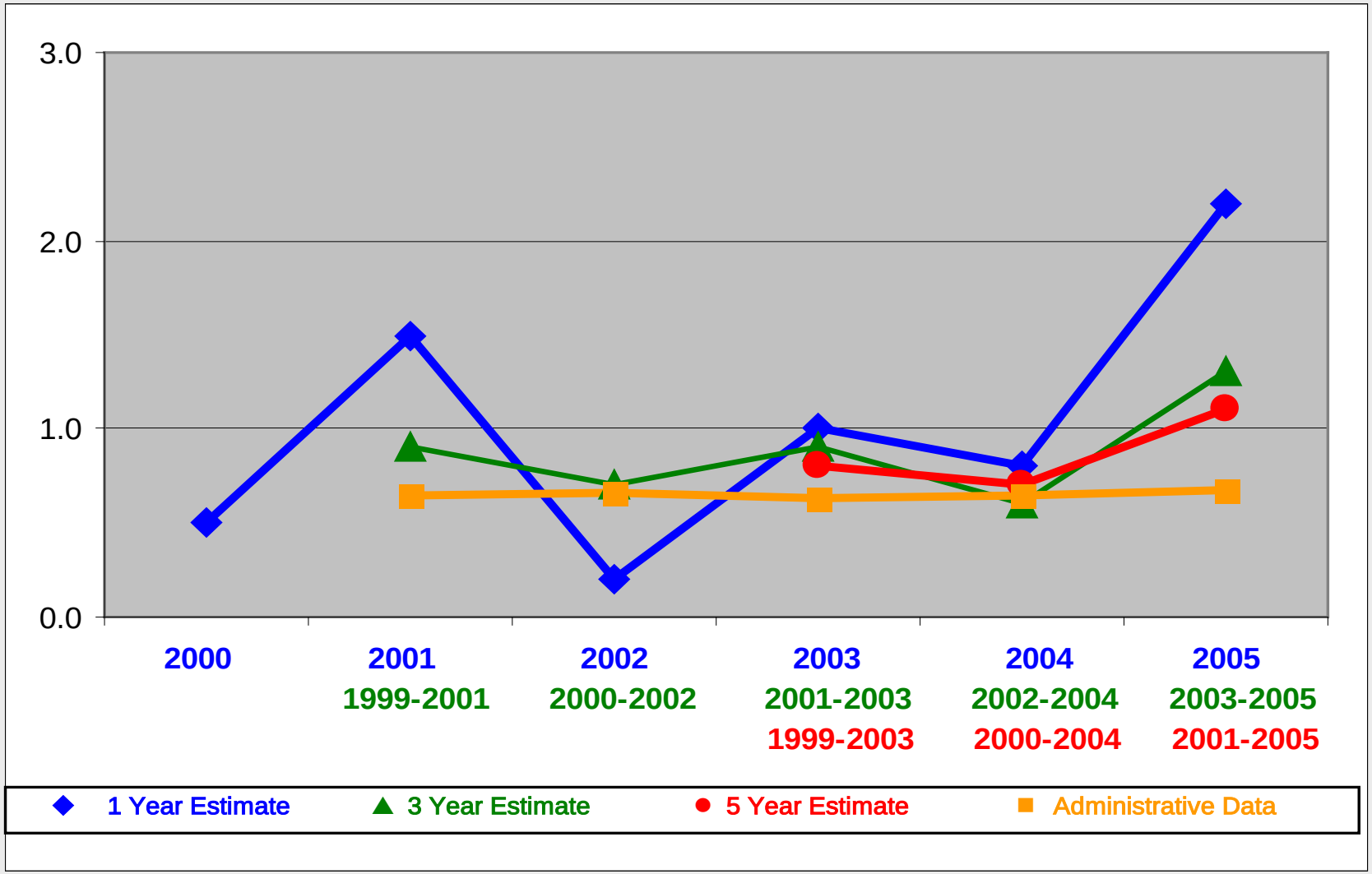
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3706



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

3703

City Island

Morris Heights

3705

Country Club

3703

High-bridge

3708

Schuylerville

Concourse Village

Morrisania

3709

Edgewater Park

Throgs Neck

3710

Mott Haven

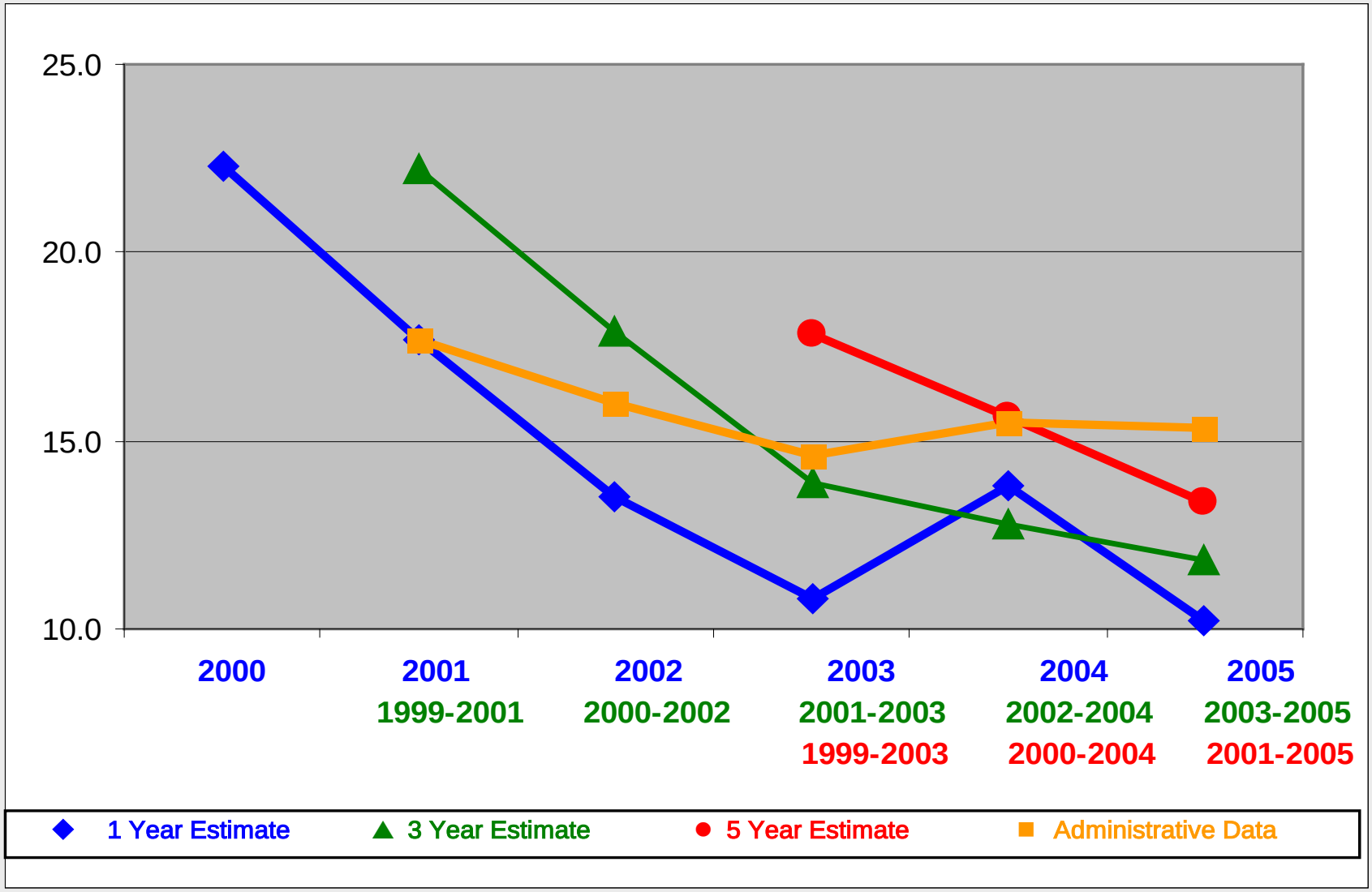
Hunts Point

Port Morris

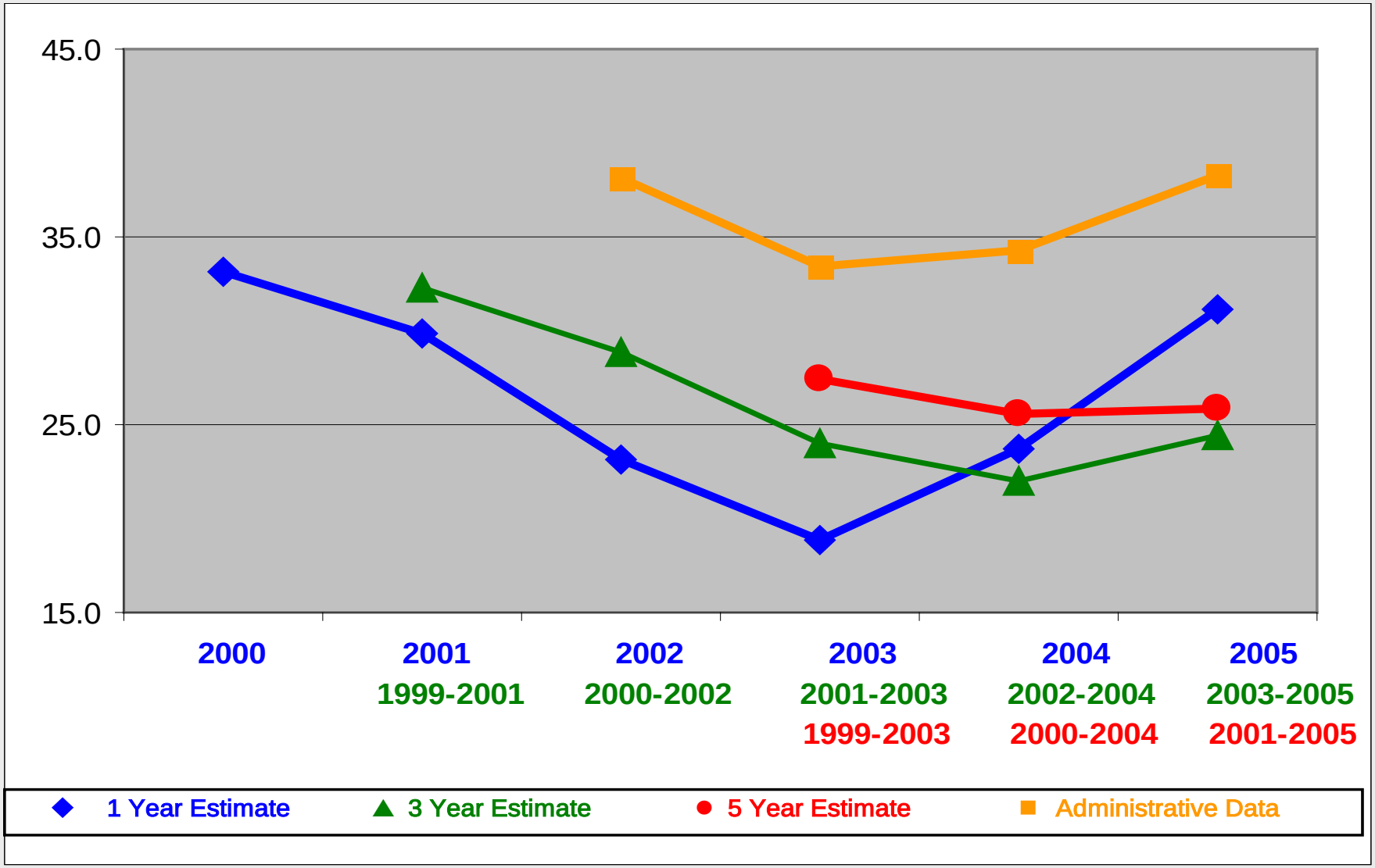
3710

RIKER'S ISLAND

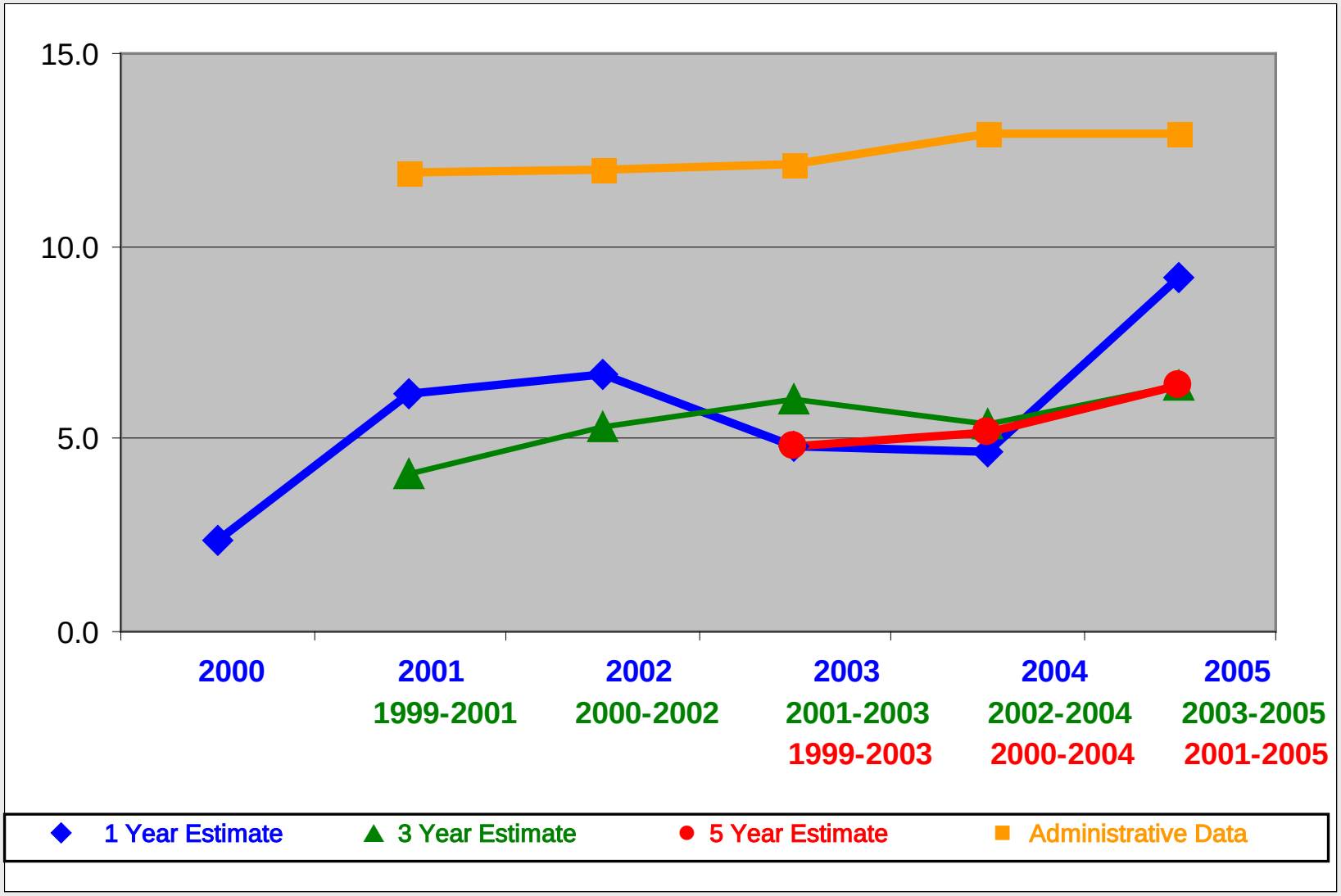
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3708



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

Co-op City

3703

PELHAM BAY PARK

3706

Bedford Park

University Heights

3704

3707

3703

City Island

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Concourse Village

Morrisania

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Edgewater Park

Throgs Neck

3710

Mott Haven

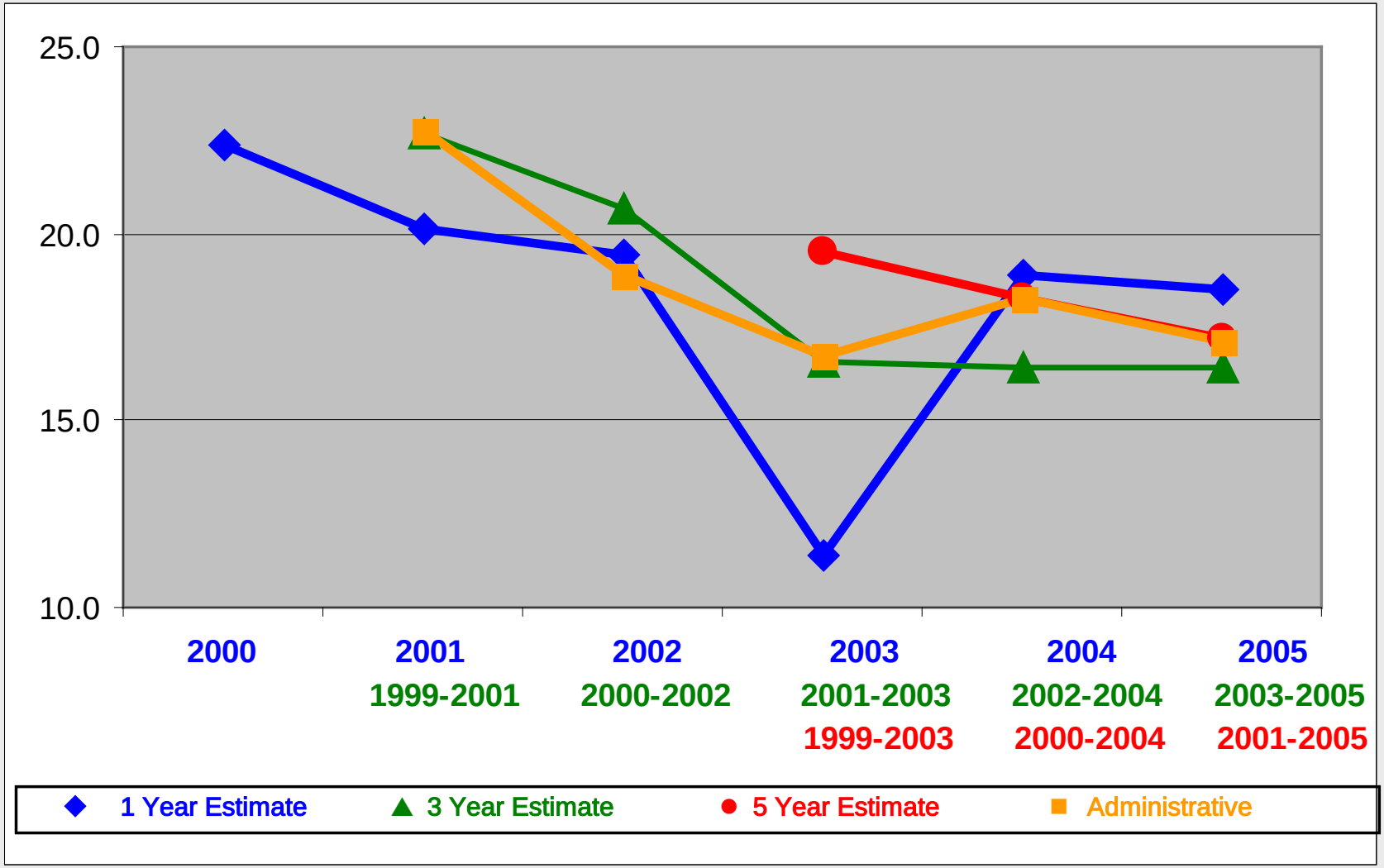
Hunts Point

Port Morris

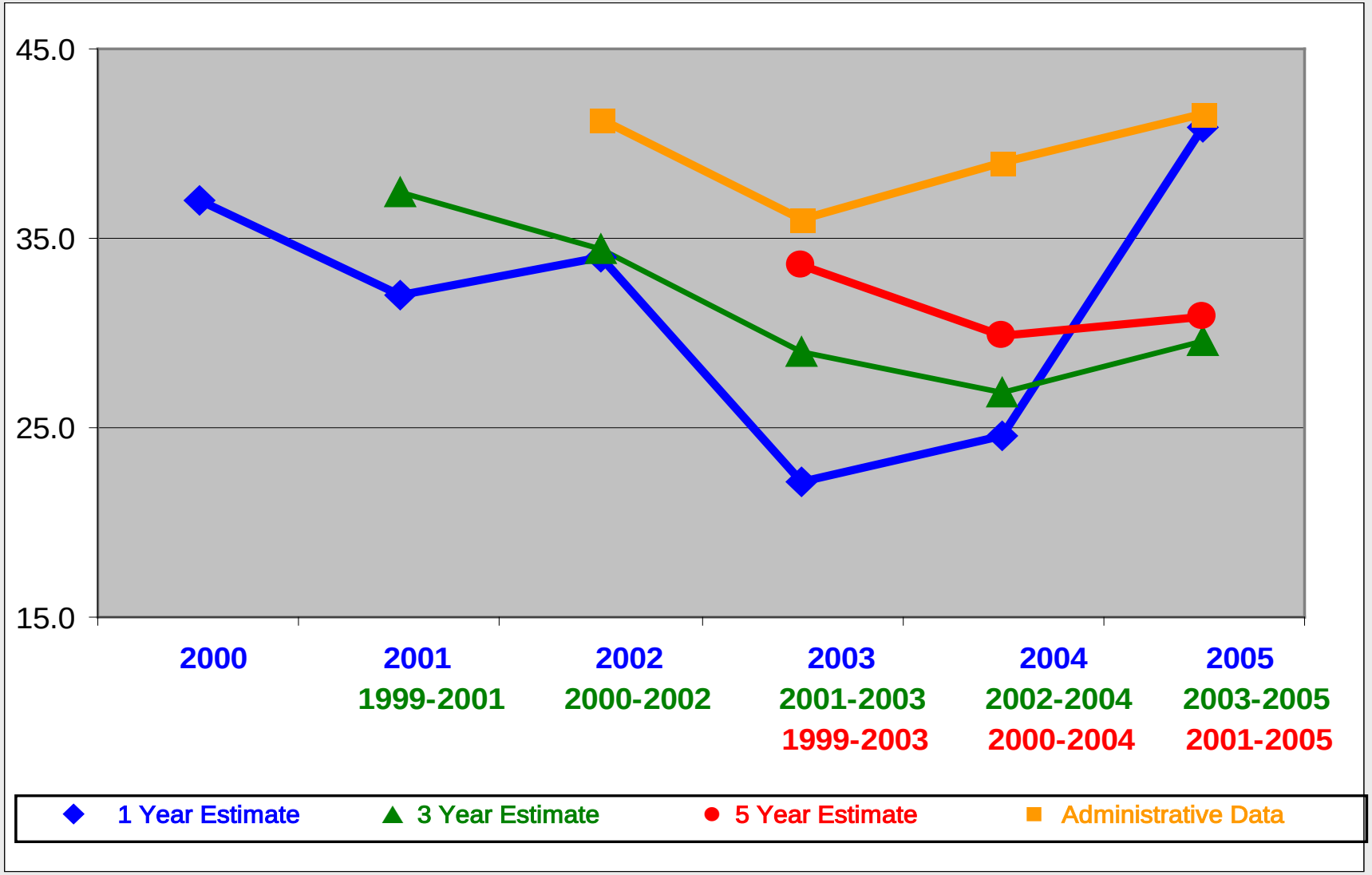
3710

RIKER'S ISLAND

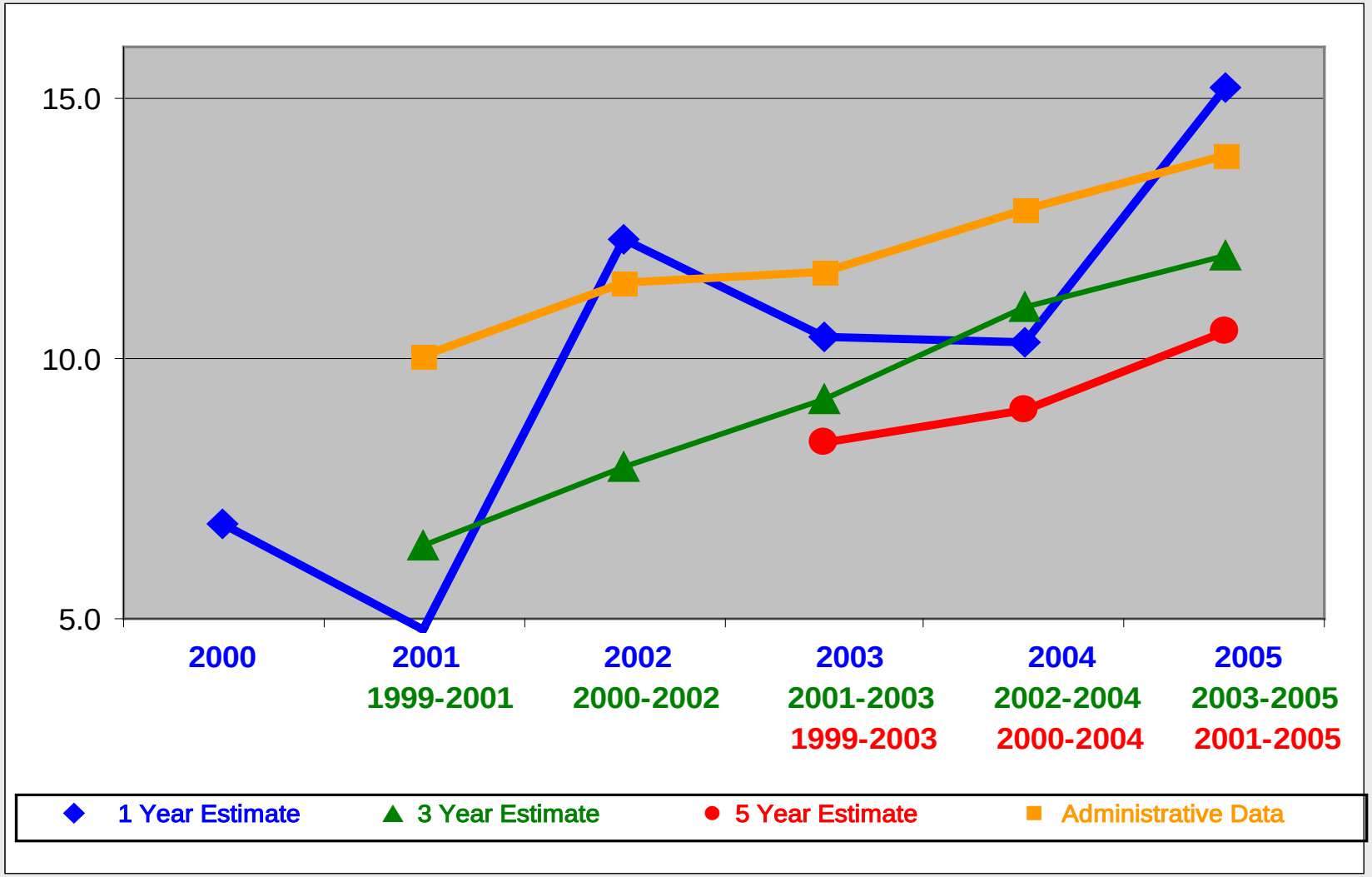
Percent of Households Receiving Public Assistance: MYEs 2000-2005 for Bronx PUMA 3710



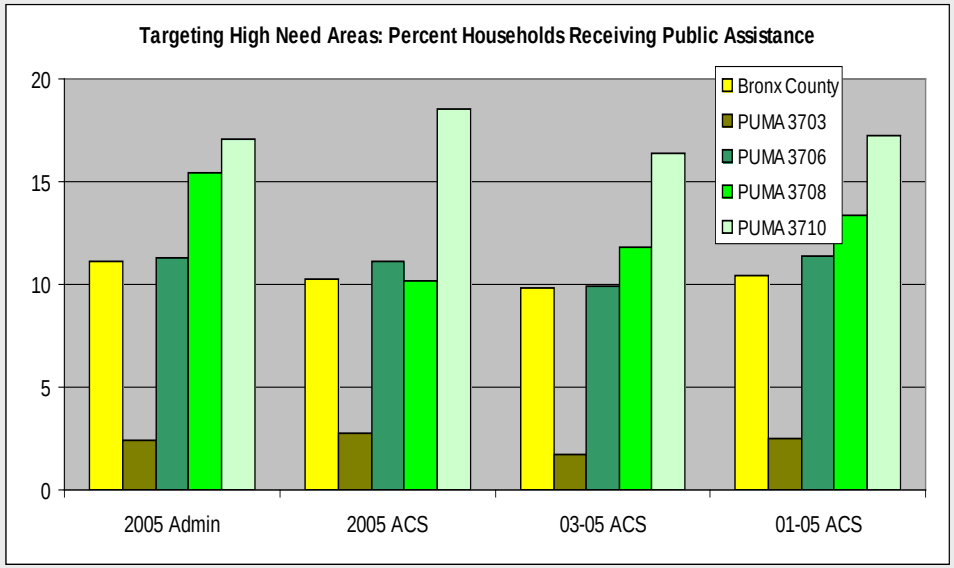
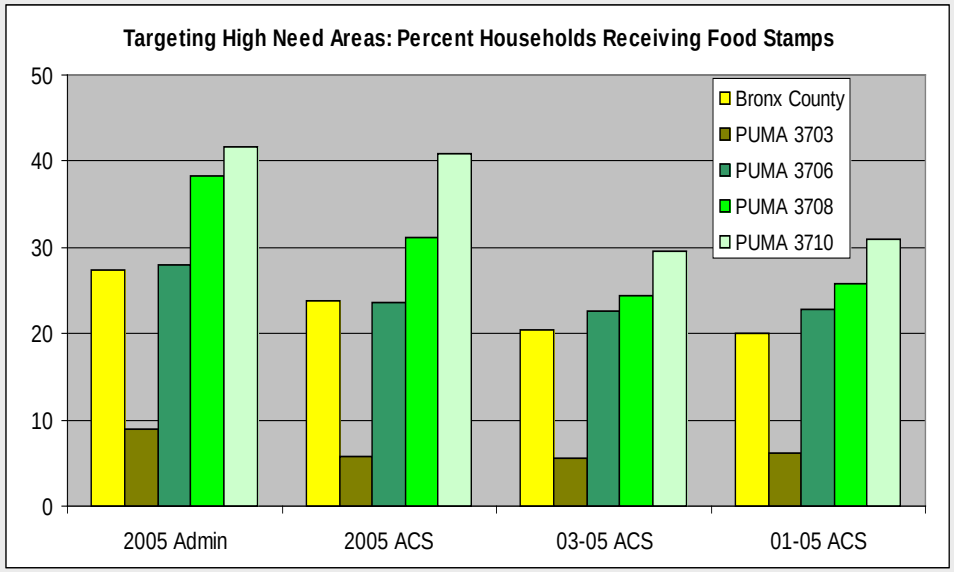
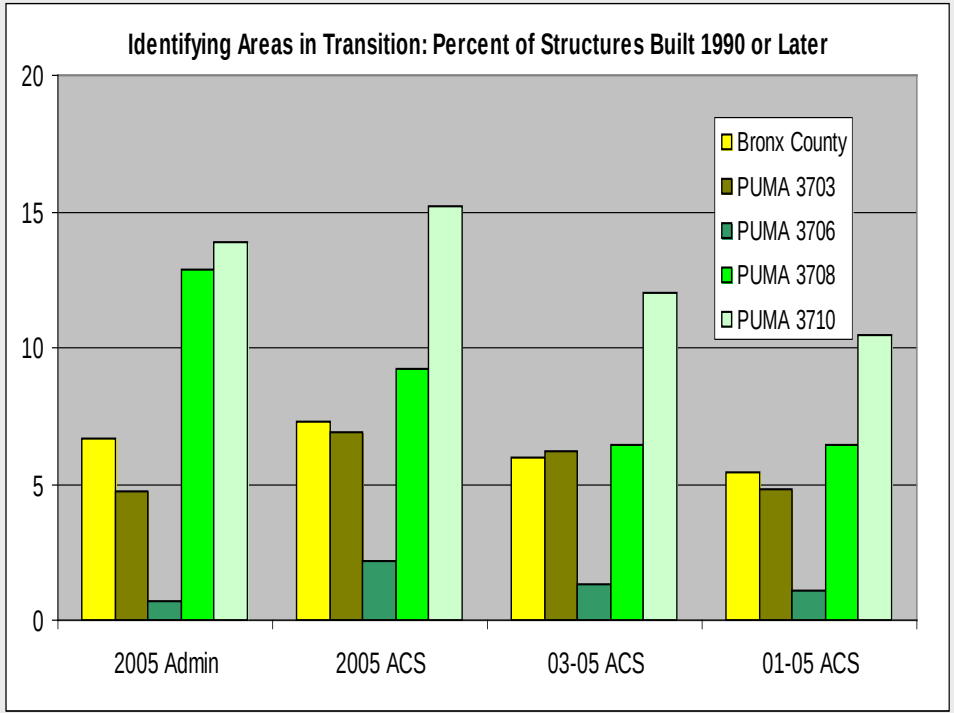
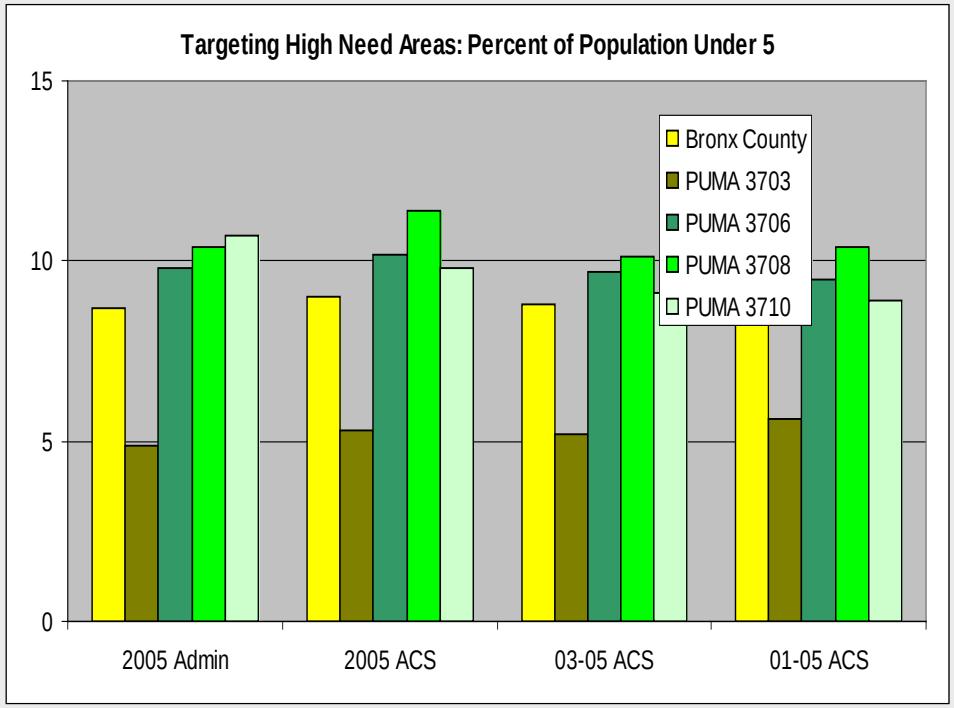
Percent of Households Receiving Food Stamp Benefits: MYEs 2000-2005 for Bronx PUMA 3710



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