

Department of Veterans Affairs CARES Healthcare Studies

VA New York Harbor Healthcare System
Brooklyn and New York Feasibility Study

May 3, 2005



VA New York Harbor Healthcare System Sites

- One of five VISN 3 facilities – three of which (Hudson Valley, New Jersey and NY Harbor) are integrated health care systems
- VA NY Harbor Healthcare System consists of 3 campuses located in Bay Ridge, Brooklyn, East-side Manhattan and St. Albans, Queens
- Ambulatory care centers are located at each of the three campuses
- VA NYHHS also operates Community Based Outpatient Clinics in Harlem, Chelsea, SoHo, downtown Brooklyn and Staten Island

New York, Brooklyn, and St. Albans Campuses

- New York and Brooklyn
 - Medical, surgical and psychiatric facilities
 - » NY 171 operating beds
 - » BK 147 operating beds
- St. Albans
 - » Primary & Extended Care Facility
 - » 181 Nursing Home operating beds
 - » 50 Domiciliary operating beds

Comprehensive Health Care

Comprehensive health care is provided through primary, specialty and long-term care services:

Manhattan

- Acute Medicine
- Surgery
- Acute Psychiatry
- Neurology
- Rehabilitation Medicine
- Emergency/ Critical Care
- Home Care

Brooklyn

- Acute Medicine
- Surgery
- Psychiatry
- Residential Substance Abuse
- Emergency/ Critical Care
- Home Care

St. Albans

- Geriatrics and extended care
- Extended care rehab
- Home care

Specialty Center-Based Care

New York: Referral Center for Cardiac Surgery, Neurosurgery, Urology and HIV/AIDS care

Brooklyn: Cancer Care and Non-invasive Cardiology

St. Albans: Dementia-geriatric care and Domiciliary

Forecasting VA Health Care Demand Key Concepts

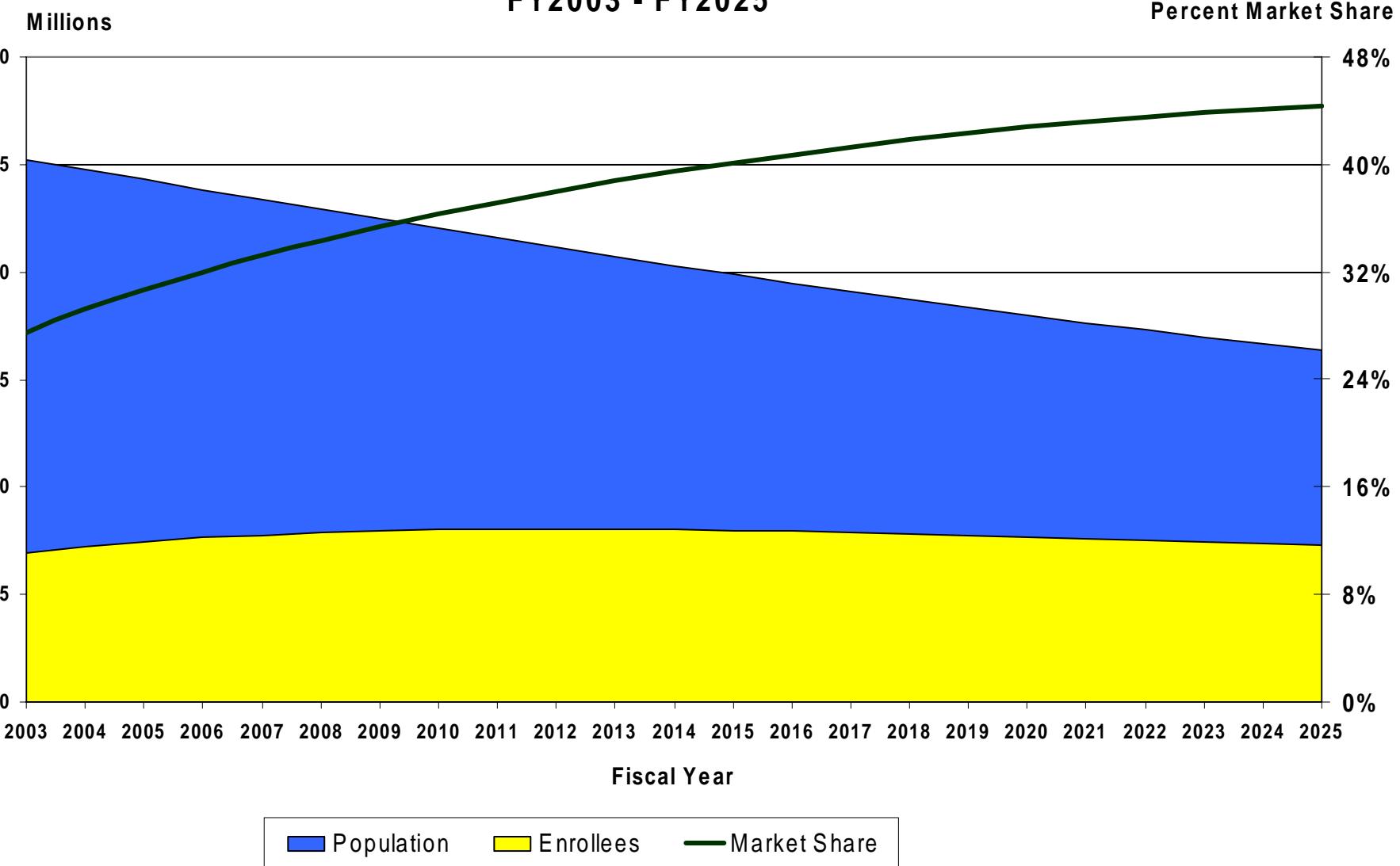
VA National Level Demand Forecasts

CARES Implementation Category	Inpatient Medicine Bed Days of Care	Outpatient Primary Care Clinic Stops
FY03 Actual	2.0 million	15.6 million
FY13 Projected	2.3 million	17.7 million
% Change FY13 – FY03	11%	13%
FY23 Projected	2.0 million	16.3 million
% Change FY23 – FY03	0%	4%

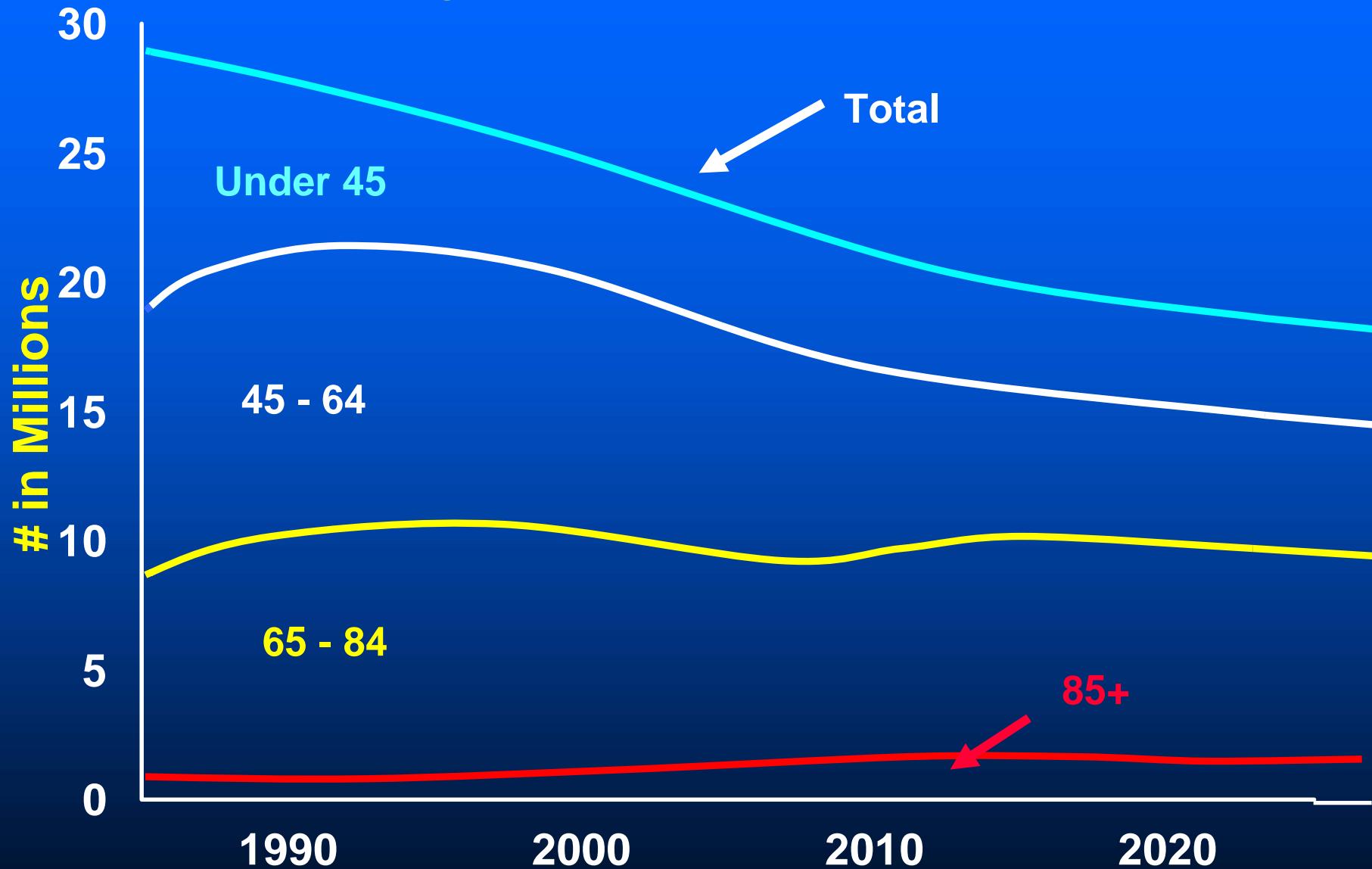
Projected Enrolled Veteran Population

- As of FY 2003:
 - 25 million veterans
 - 7 million of these are enrolled in VA
- Enrollment forecasted 20 years into the future by:
 - Age
 - Gender
 - Priority
 - Geographic Area

**Total Veterans,
National Population & Enrollee Projections
FY2003 - FY2025**



Only the 85+ Age Group is Projected to Increase



Inpatient and Outpatient Demand Forecasts

- CARES Business Plan Studies aggregated by:
 - 25 Categories of Care
 - Geographic Area (where enrollee lives)
 - VA Treating Facility

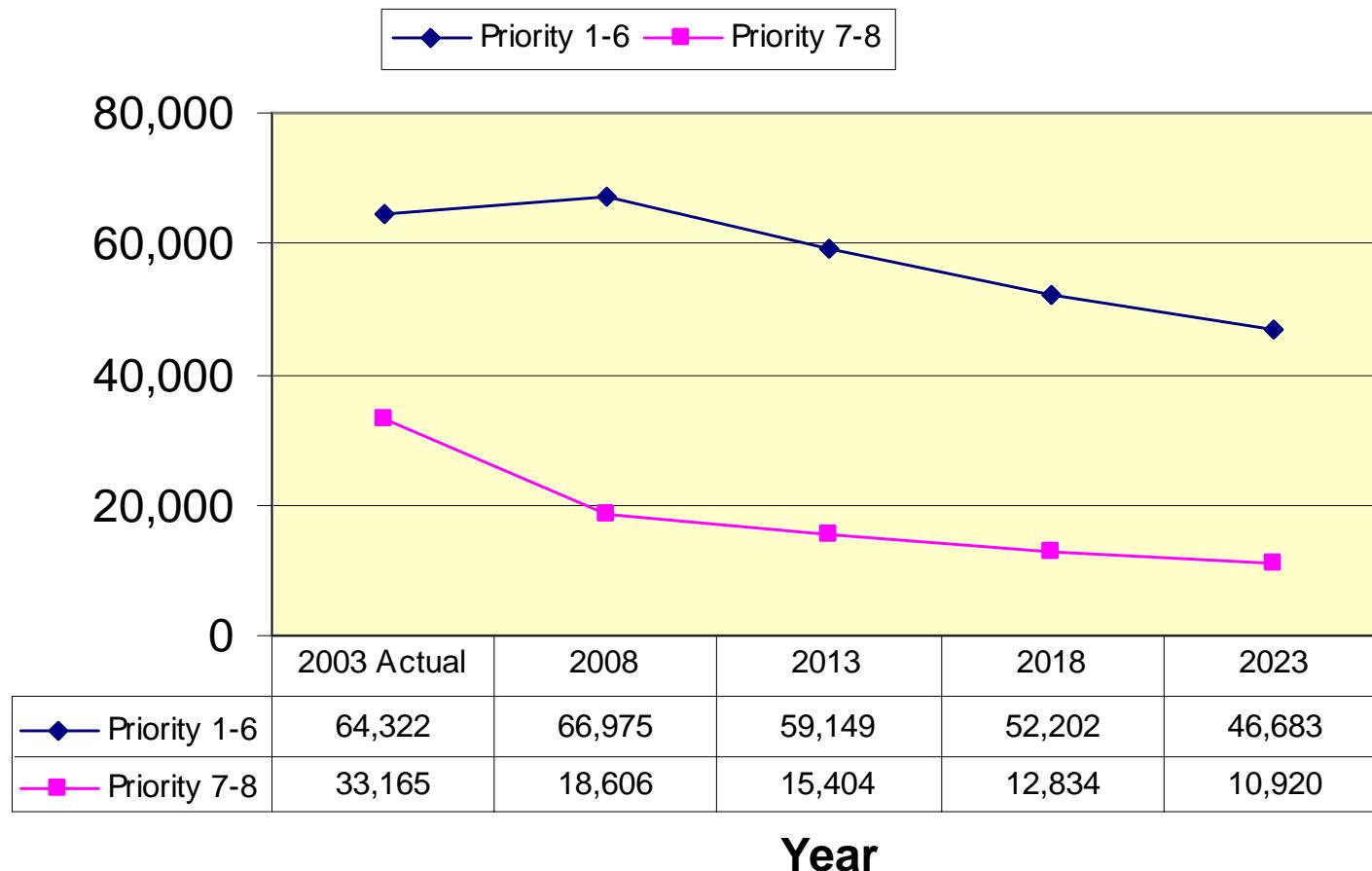
Reliance Factor Issues

- Reliance on VA Services varies by:
 - Enrollee preference for VA services vs. other health care options
 - VA supply in a given geographic area
 - » **Wait lists**
 - » **Types of services provided at each facility**
 - » **Geographic location of facility**

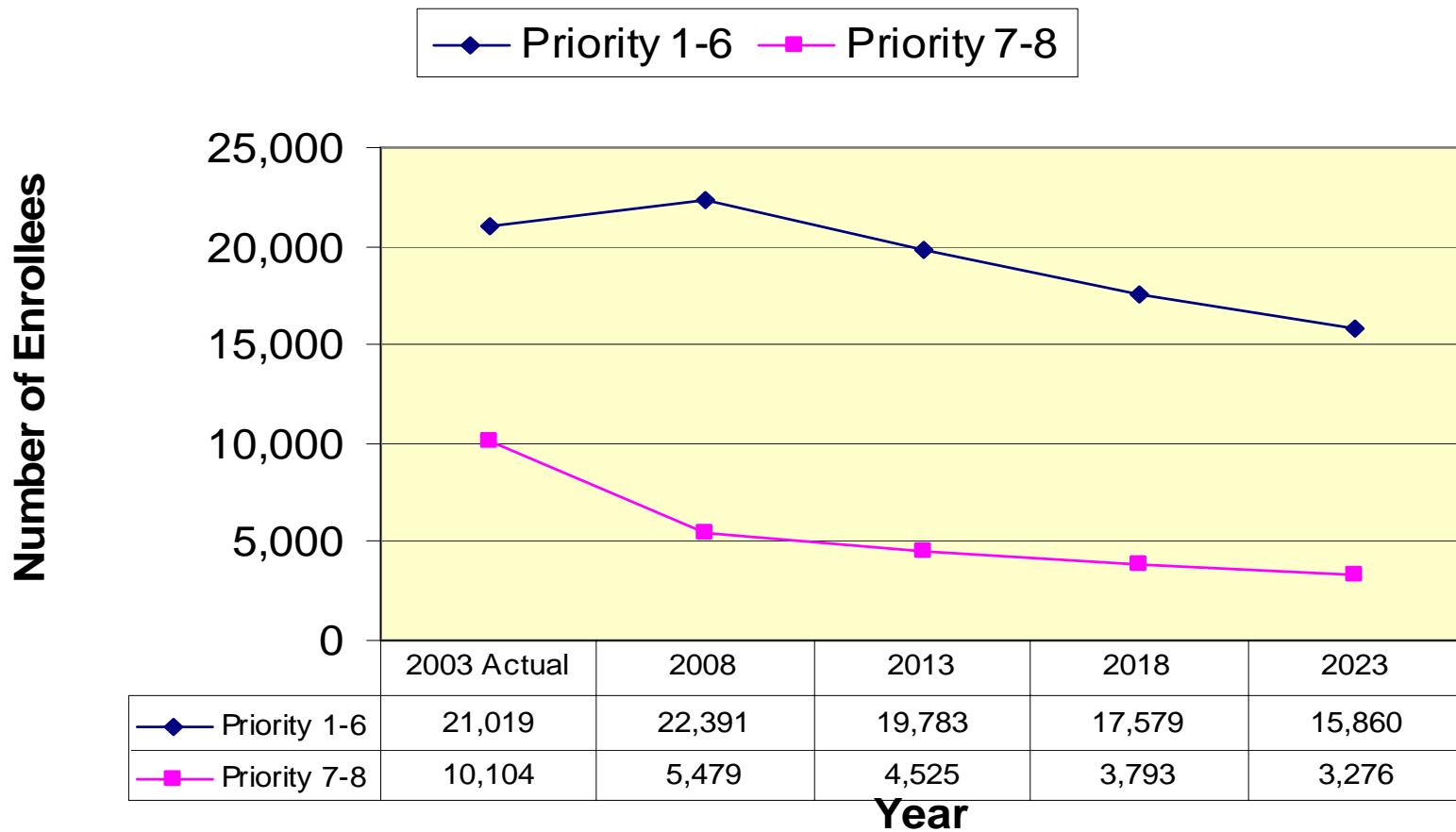
Enrollment

Enrollment by Priority Group (VA NY Harbor HCS Catchment Area)

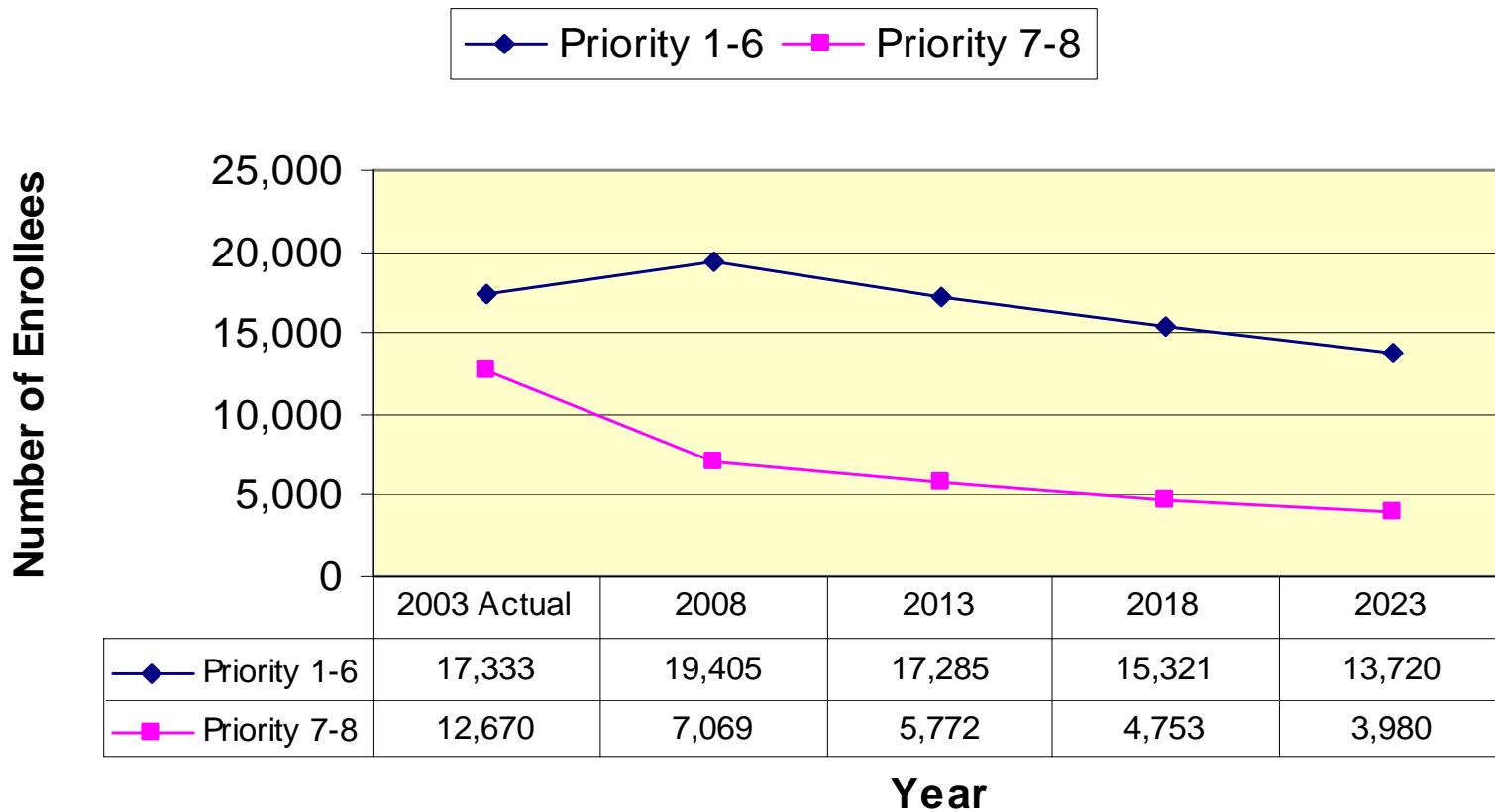
Number of Enrollees



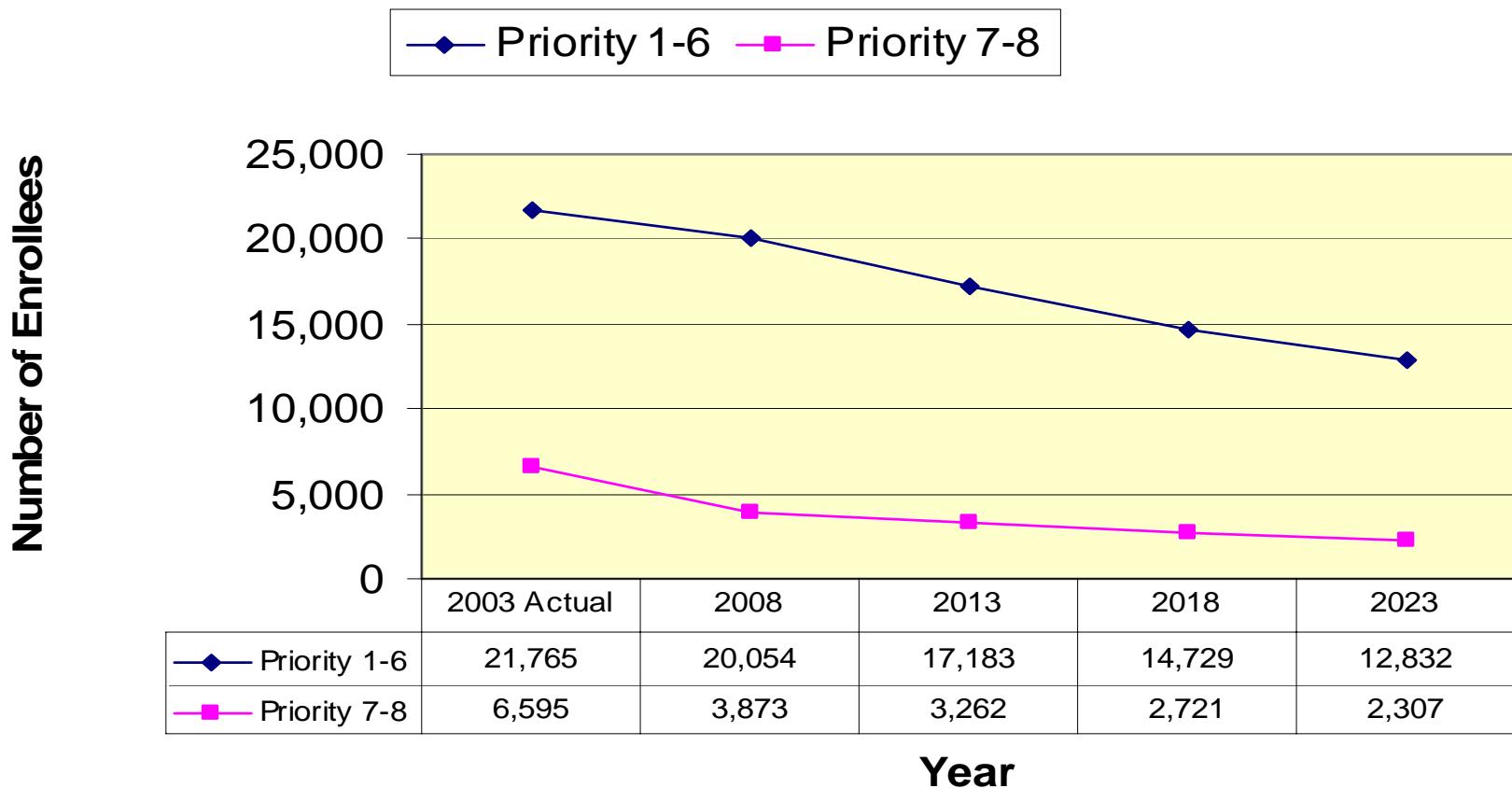
Enrollment by Priority Group (VISN 3 Kings County Sector)



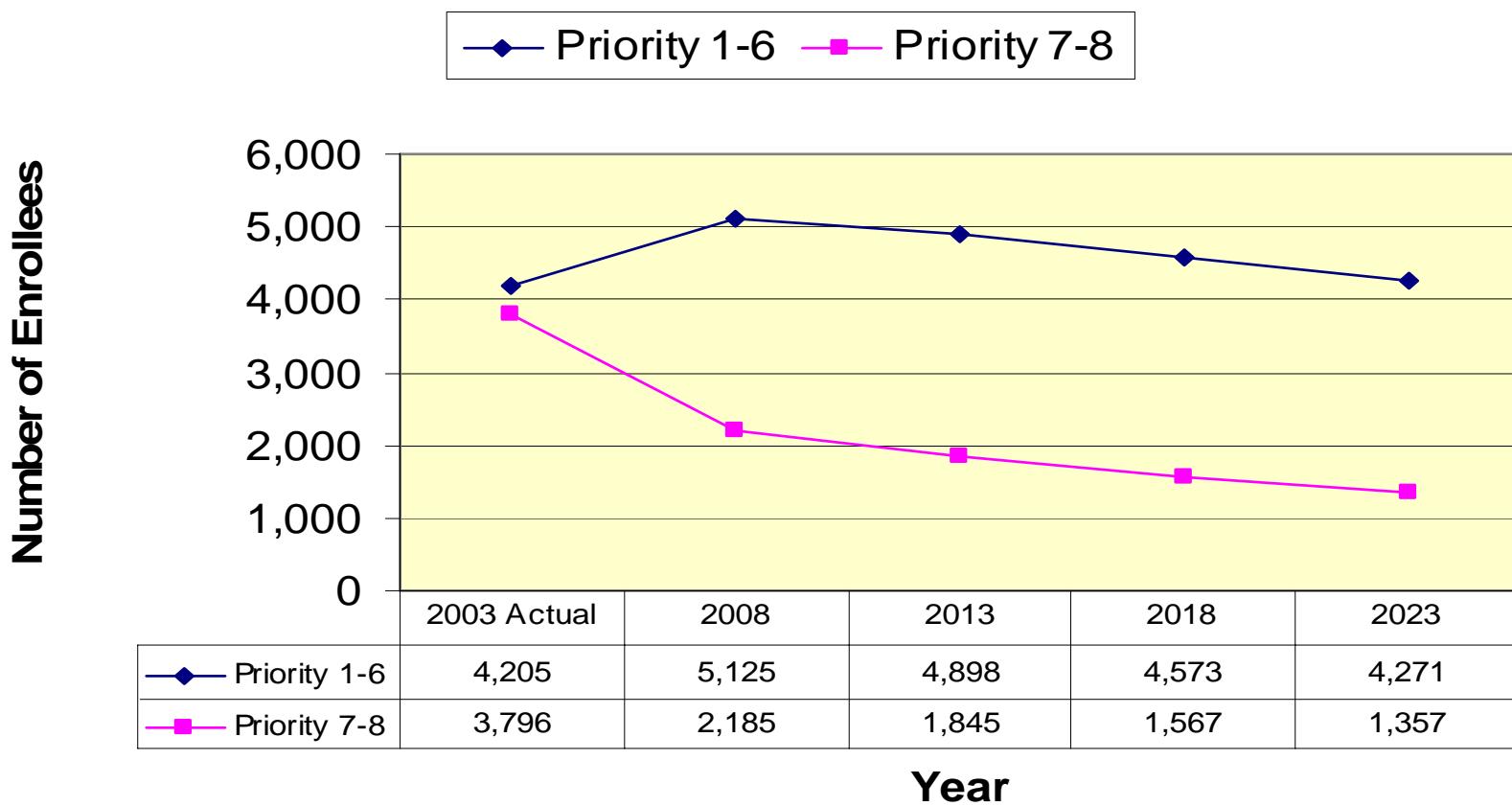
Enrollment by Priority Group (VISN 3 Queens County Sector)



Enrollment by Priority Group (VISN 3 New York County Sector)

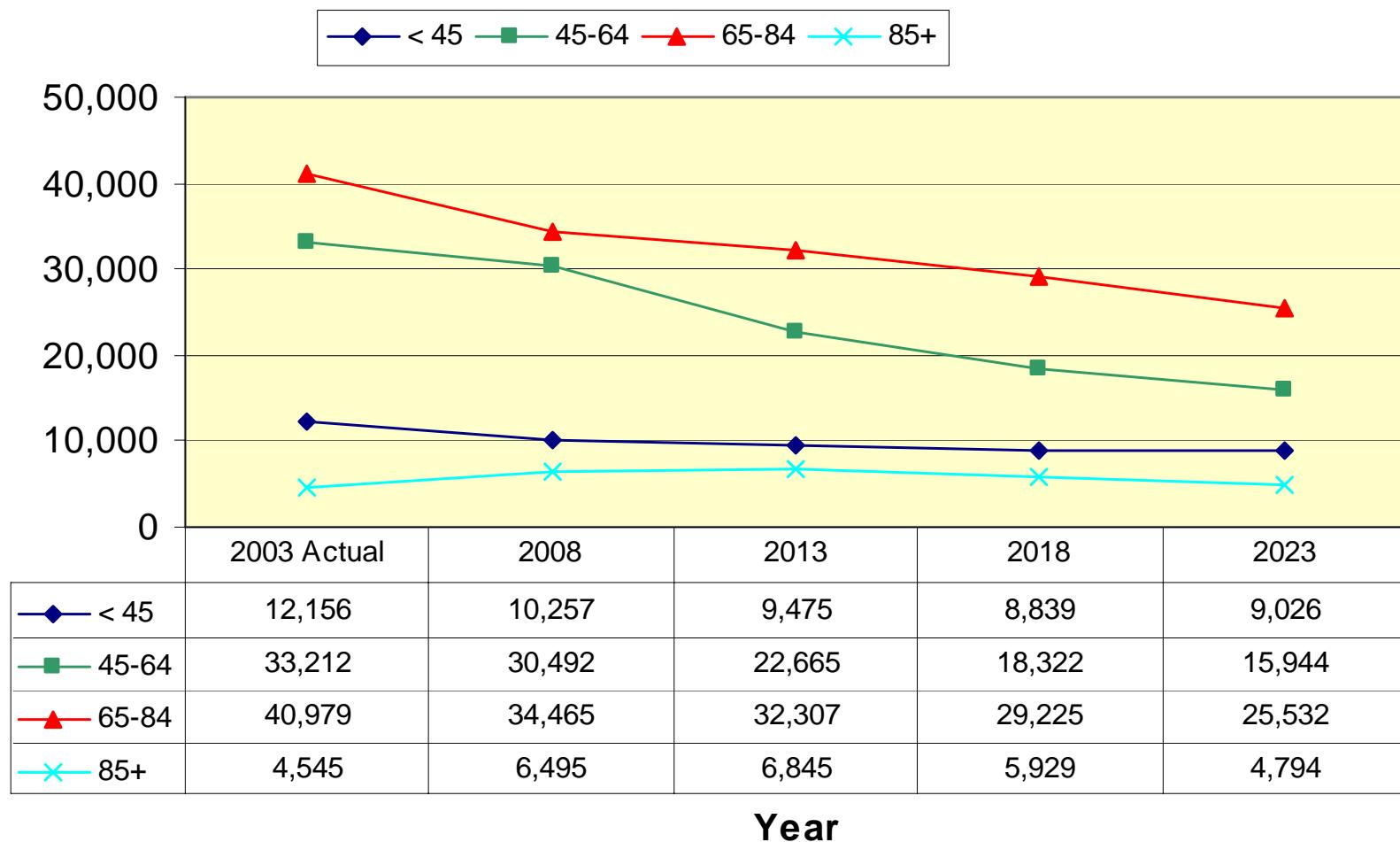


Enrollment by Priority Group (VISN 3 Richmond County Sector)

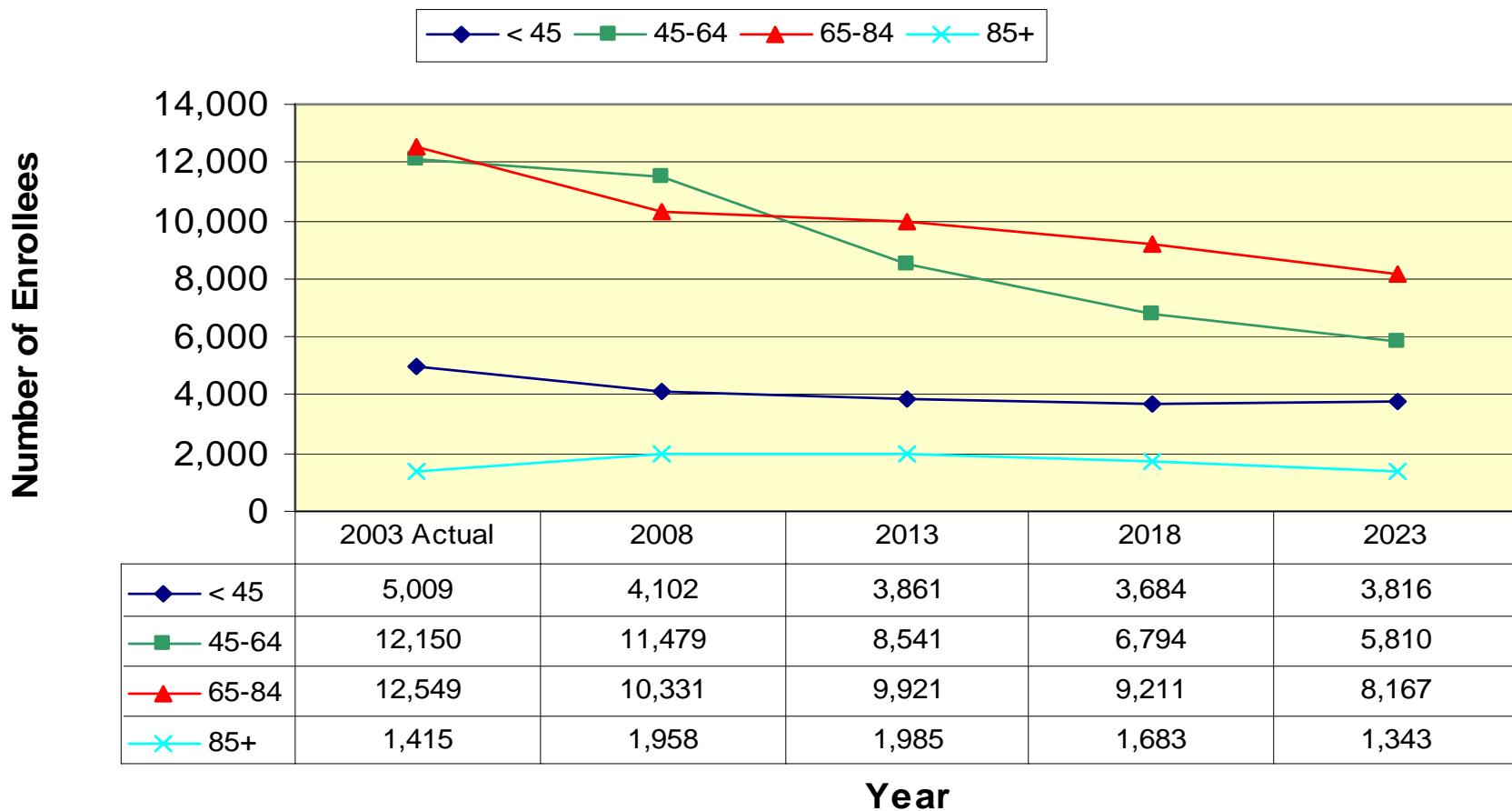


Enrollment by Age Group (VA NY Harbor HCS Catchment Area)

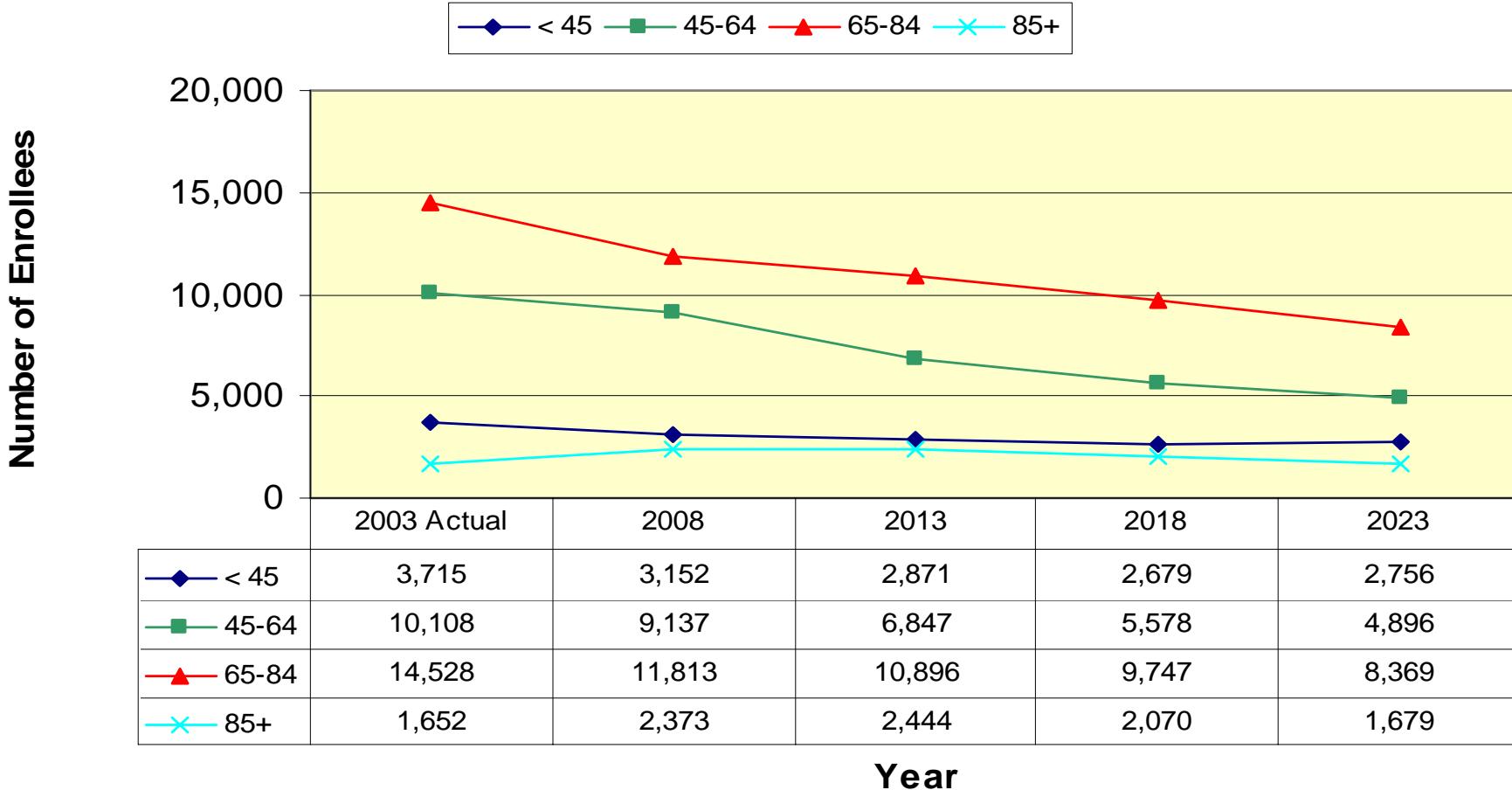
Number of Enrollees



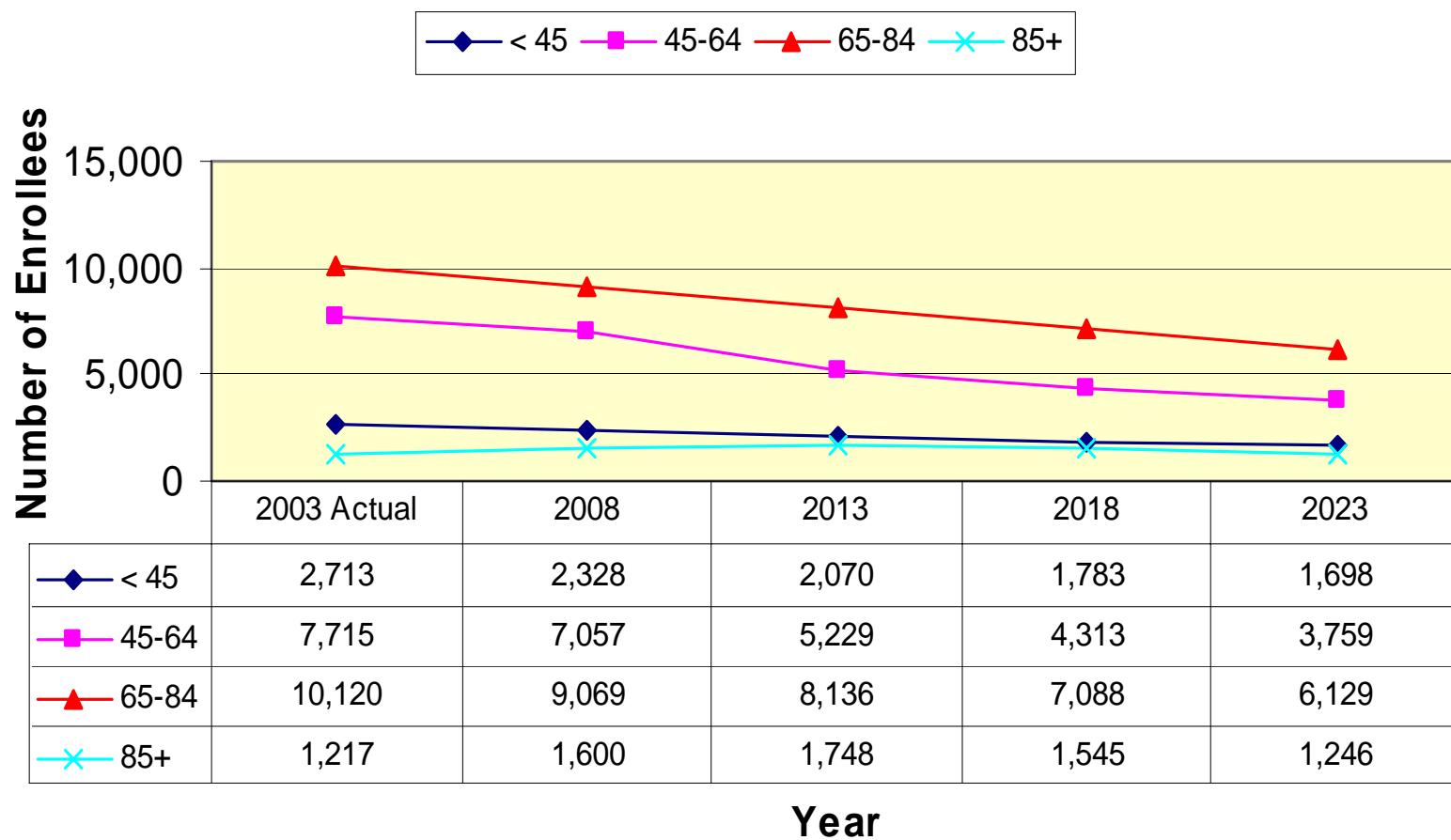
Enrollment by Age Group (VISN 3 Kings County Sector)



Enrollment by Age Group (VISN 3 Queens County Sector)

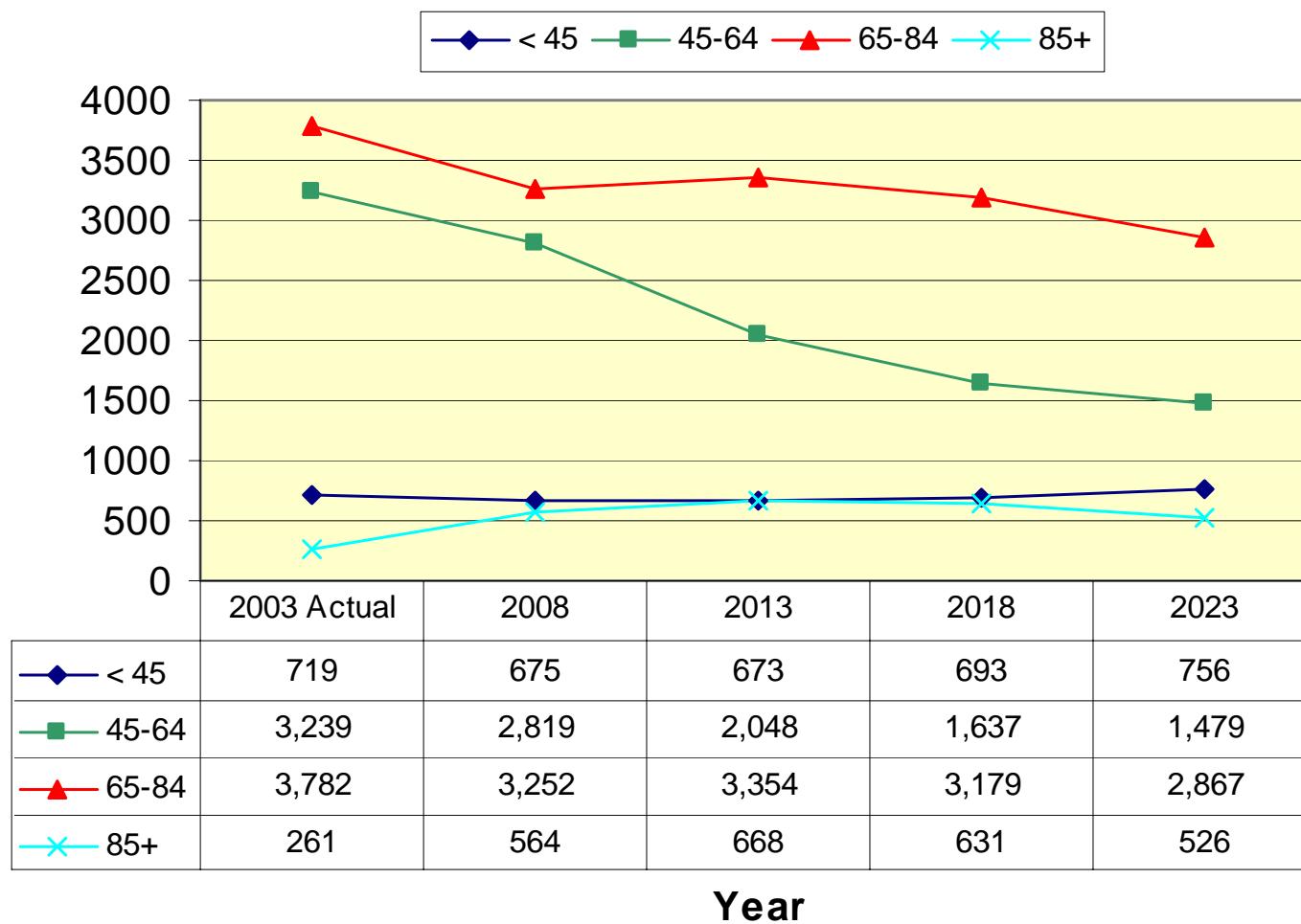


Enrollment by Age Group (VISN 3 New York County Sector)



Enrollment by Age Group (VISN 3 Richmond County Sector)

Number of Enrollees



Outpatient Utilization

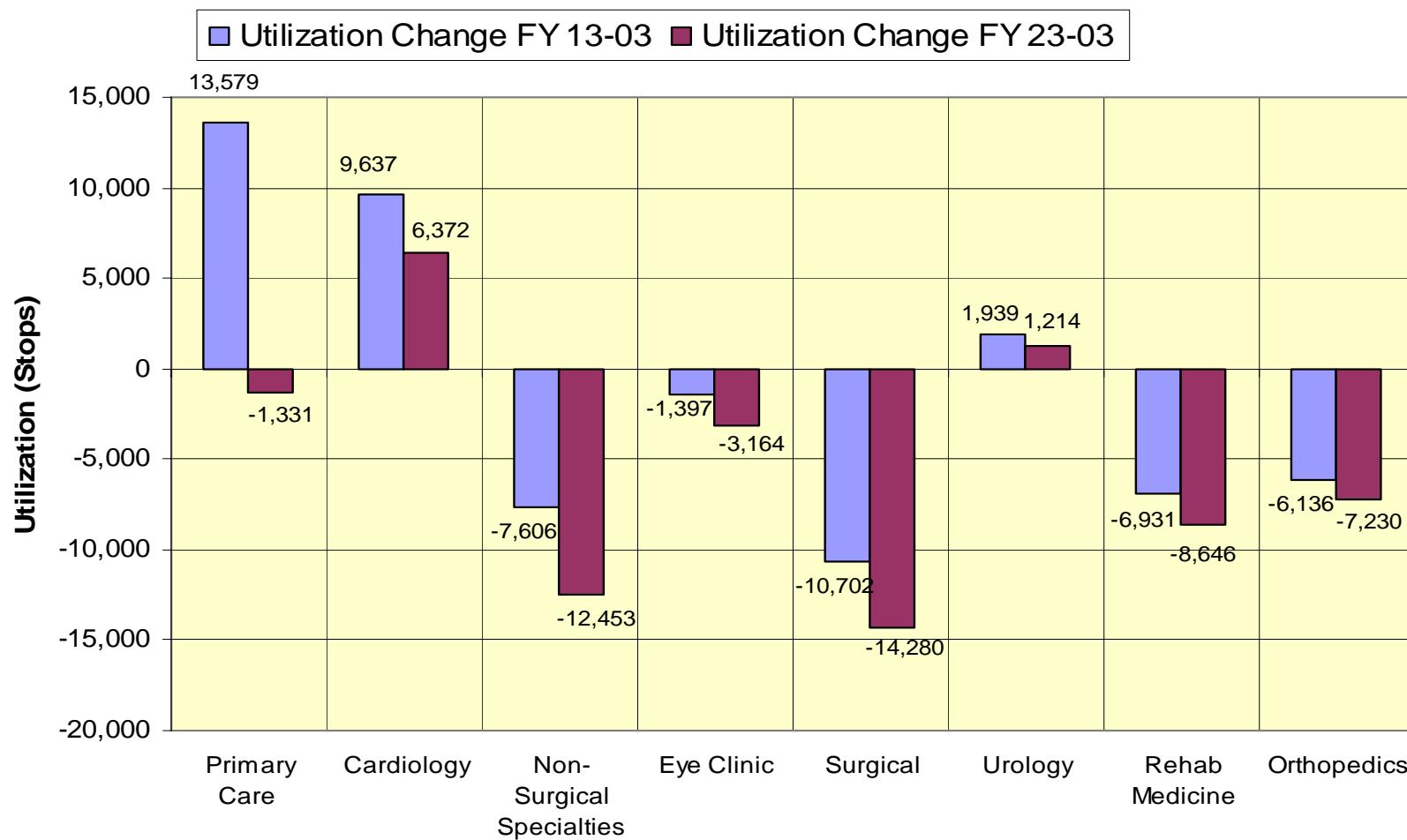
VA NY Harbor HCS Site Perspective

VA NY Harbor HCS: Brooklyn Campus Outpatient Utilization by CARES Implementation Categories

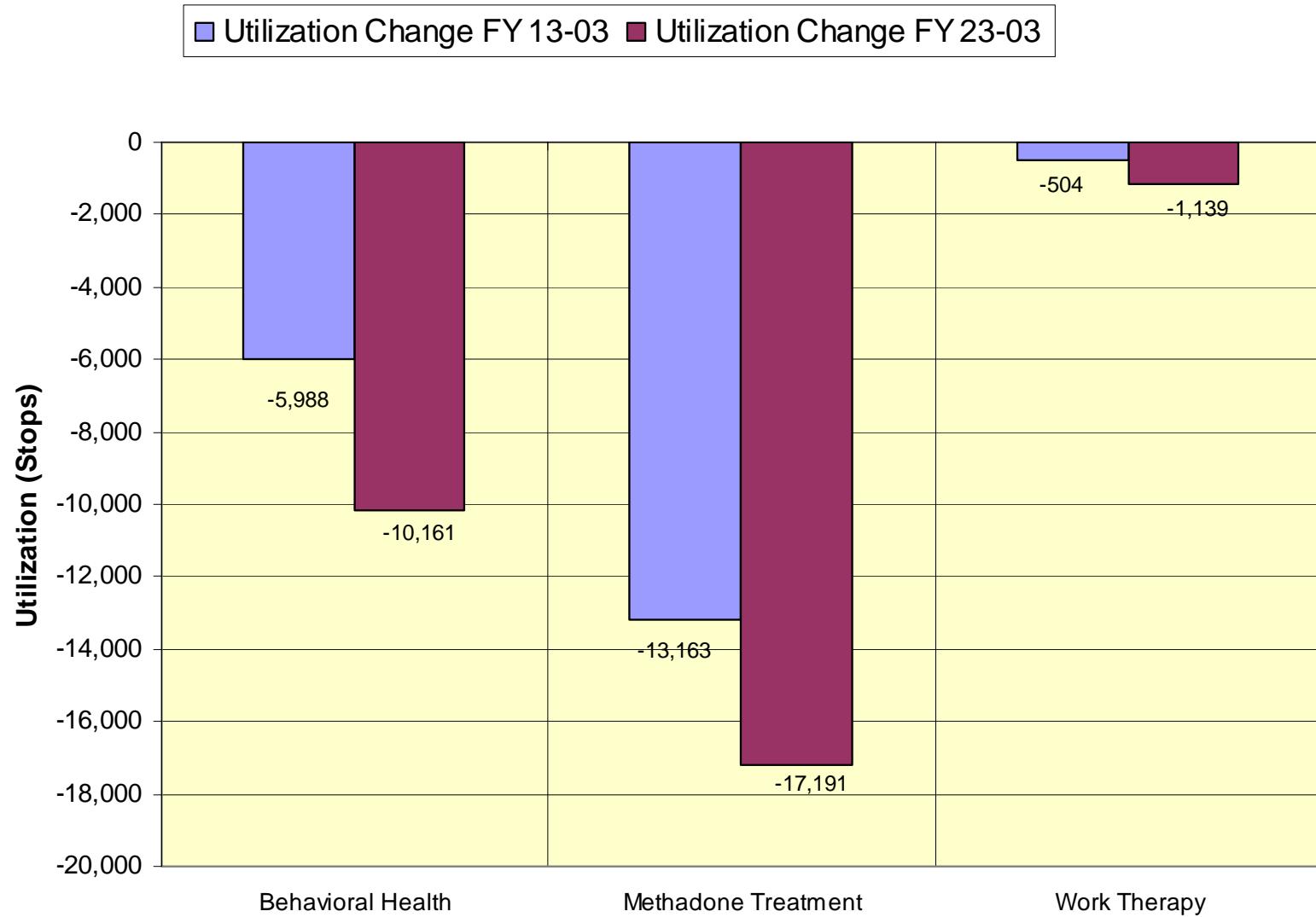
Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	61,314	74,893	59,983	13,579	22%	-1,331	-2%
Cardiology	11,114	20,751	17,486	9,637	87%	6,372	57%
Non-Surgical Specialties	40,650	33,044	28,197	-7,606	-19%	-12,453	-31%
Eye Clinic	15,810	14,413	12,646	-1,397	-9%	-3,164	-20%
Surgical	33,048	22,346	18,768	-10,702	-32%	-14,280	-43%
Urology	5,413	7,352	6,627	1,939	36%	1,214	22%
Rehab Medicine	15,680	8,749	7,034	-6,931	-44%	-8,646	-55%
Orthopedics	13,976	7,840	6,746	-6,136	-44%	-7,230	-52%
*Ambulatory Total:	197,005	189,388	157,487	-7,617	-4%	-39,518	-20%
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Behavioral Health	59,729	53,741	49,568	-5,988	-10%	-10,161	-17%
Community MH Residential Care							
Day Treatment							
Homeless (MHCM)							
Methadone Treatment	22,482	9,319	5,291	-13,163	-59%	-17,191	-76%
Work Therapy	2,937	2,433	1,798	-504	-17%	-1,139	-39%
OP Mental Health Program Total:	85,148	65,493	56,657	-19,655	-23%	-28,491	-33%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

Brooklyn Campus Change in Utilization (Ambulatory)



Brooklyn Campus Change in Utilization (Outpatient Mental Health Program)

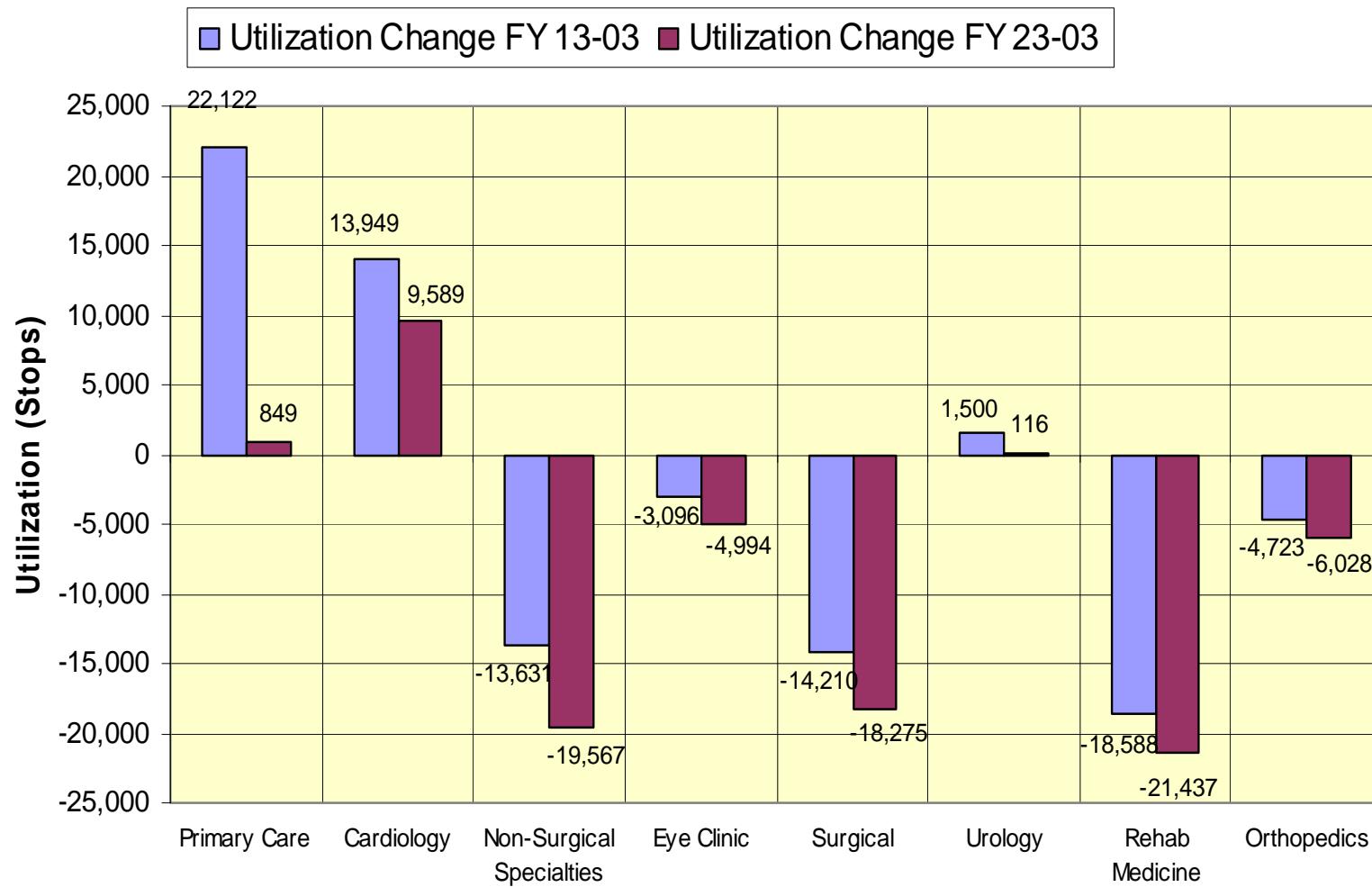


VA NY Harbor HCS: New York Campus Outpatient Utilization by CARES Implementation Categories

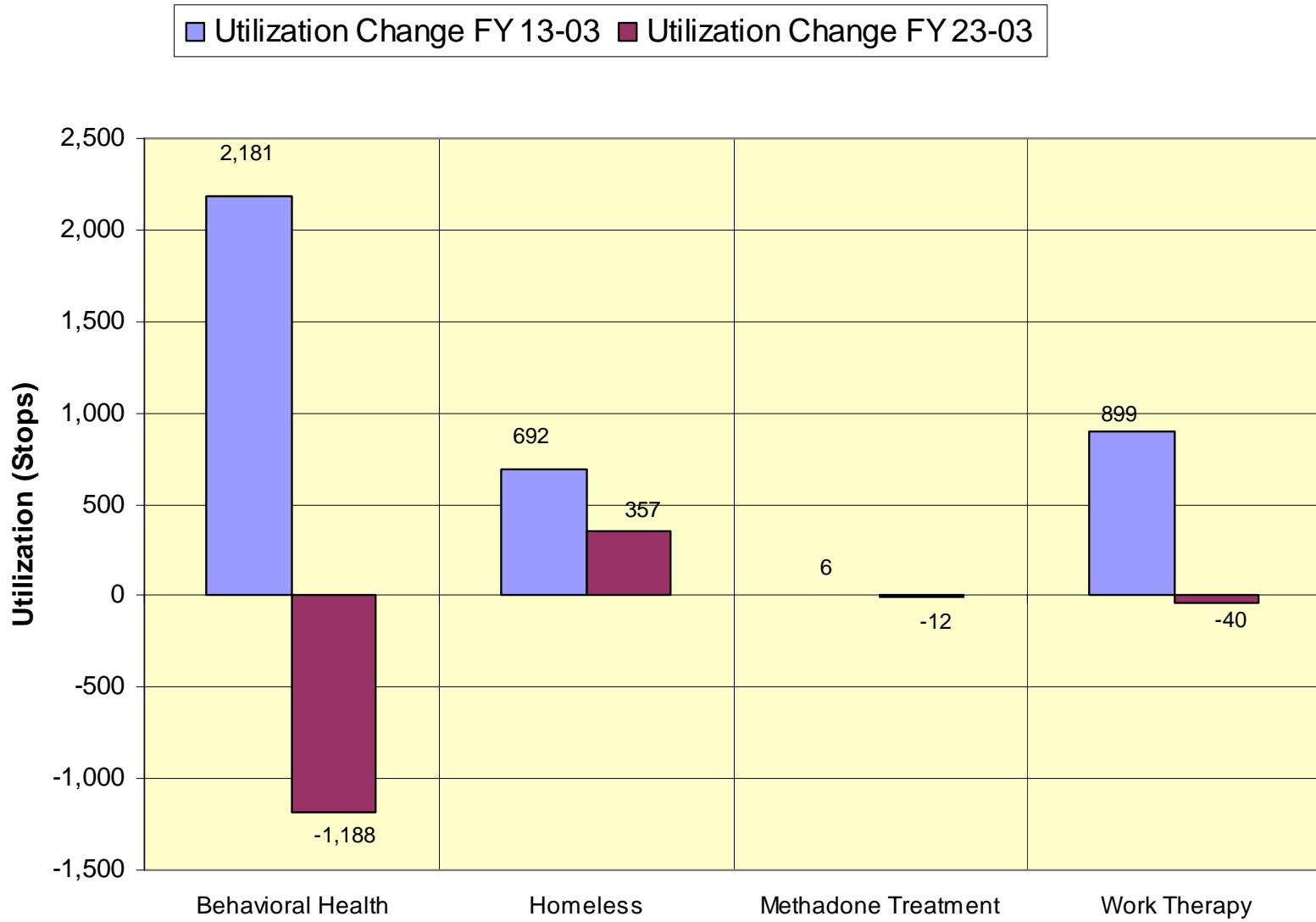
Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	79,730	101,852	80,579	22,122	28%	849	1%
Cardiology	11,396	25,345	20,985	13,949	122%	9,589	84%
Non-Surgical Specialties	50,422	36,791	30,855	-13,631	-27%	-19,567	-39%
Eye Clinic	16,509	13,413	11,515	-3,096	-19%	-4,994	-30%
Surgical	37,756	23,546	19,481	-14,210	-38%	-18,275	-48%
Urology	9,833	11,333	9,949	1,500	15%	116	1%
Rehab Medicine	32,041	13,453	10,604	-18,588	-58%	-21,437	-67%
Orthopedics	13,106	8,383	7,078	-4,723	-36%	-6,028	-46%
*Ambulatory Total:	250,793	234,116	191,046	-16,677	-7%	-59,747	-24%
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Behavioral Health	38,543	40,724	37,355	2,181	6%	-1,188	-3%
Community MH Residential Care				0		0	
Day Treatment				0		0	
Homeless (MHICM)	706	1,398	1,063	692	98%	357	51%
Methadone Treatment	41	47	29	6	15%	-12	-29%
Work Therapy	2,493	3,392	2,453	899	36%	-40	-2%
OP Mental Health Program Total:	41,783	45,561	40,900	3,778	9%	-883	-2%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

New York Campus Change in Utilization (Ambulatory)



New York Campus Change in Utilization (Outpatient Mental Health Program)



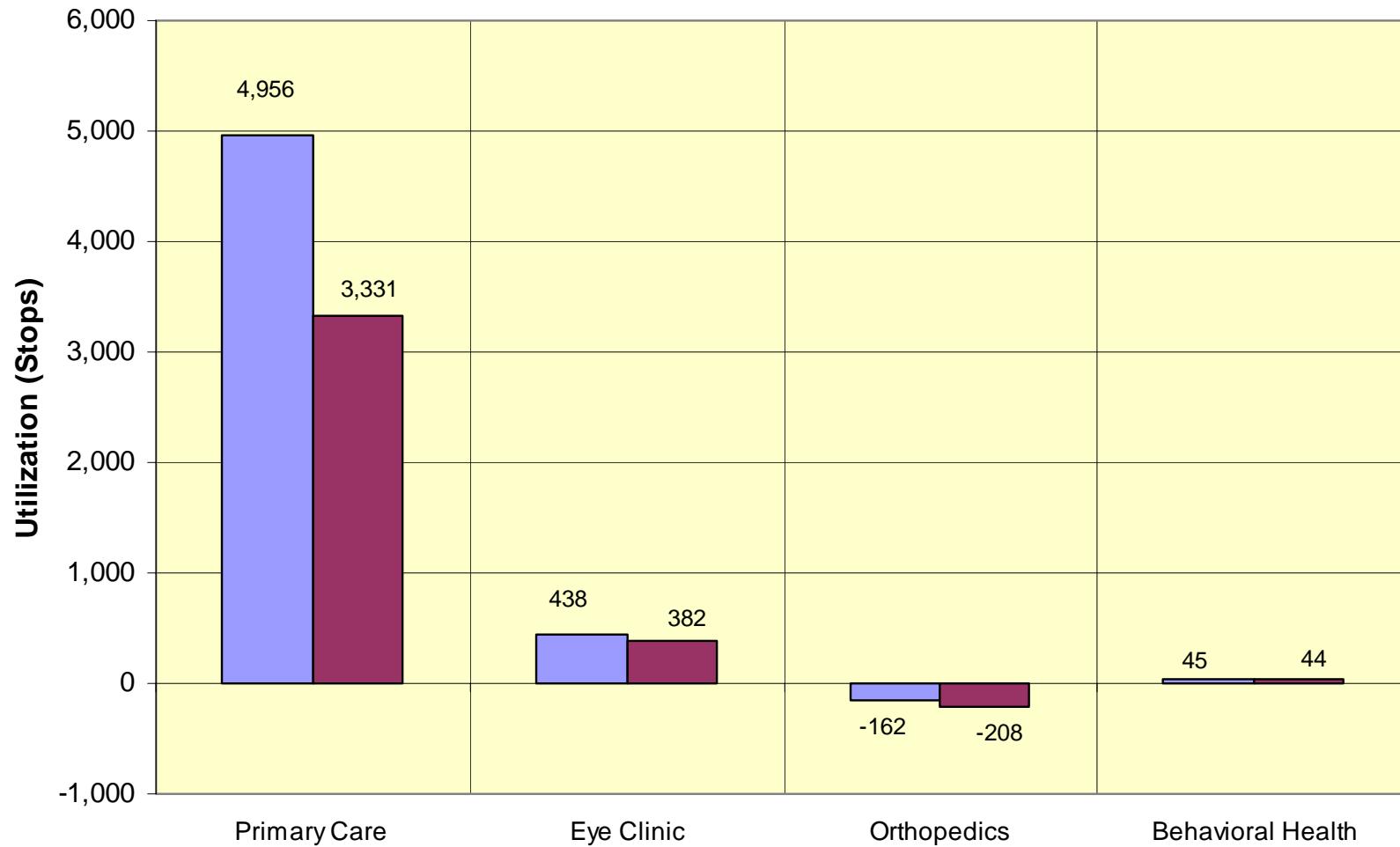
VA NY Harbor HCS Staten Island CBOC Utilization by CARES Implementation Categories

Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	7,872	12,828	11,203	4,956	63%	3,331	42%
Cardiology							
Non-Surgical Specialties							
Eye Clinic	789	1,227	1,171	438	56%	382	48%
Surgical							
Urology							
Rehab Medicine							
Orthopedics	834	672	626	-162	-19%	-208	-25%
*Ambulatory Total:	9,495	14,727	13,000	5,232	55%	3,505	37%
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Behavioral Health	64	109	108	45	70%	44	69%
Community MH Residential Care							
Day Treatment							
Homeless (MHICM)							
Methadone Treatment							
Work Therapy							
OP Mental Health Program Total:	64	109	108	45	70%	44	69%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

Staten Island CBOC Change in Utilization (Ambulatory and Outpatient Mental Health)

Utilization Change FY 13-03 Utilization Change FY 23-03

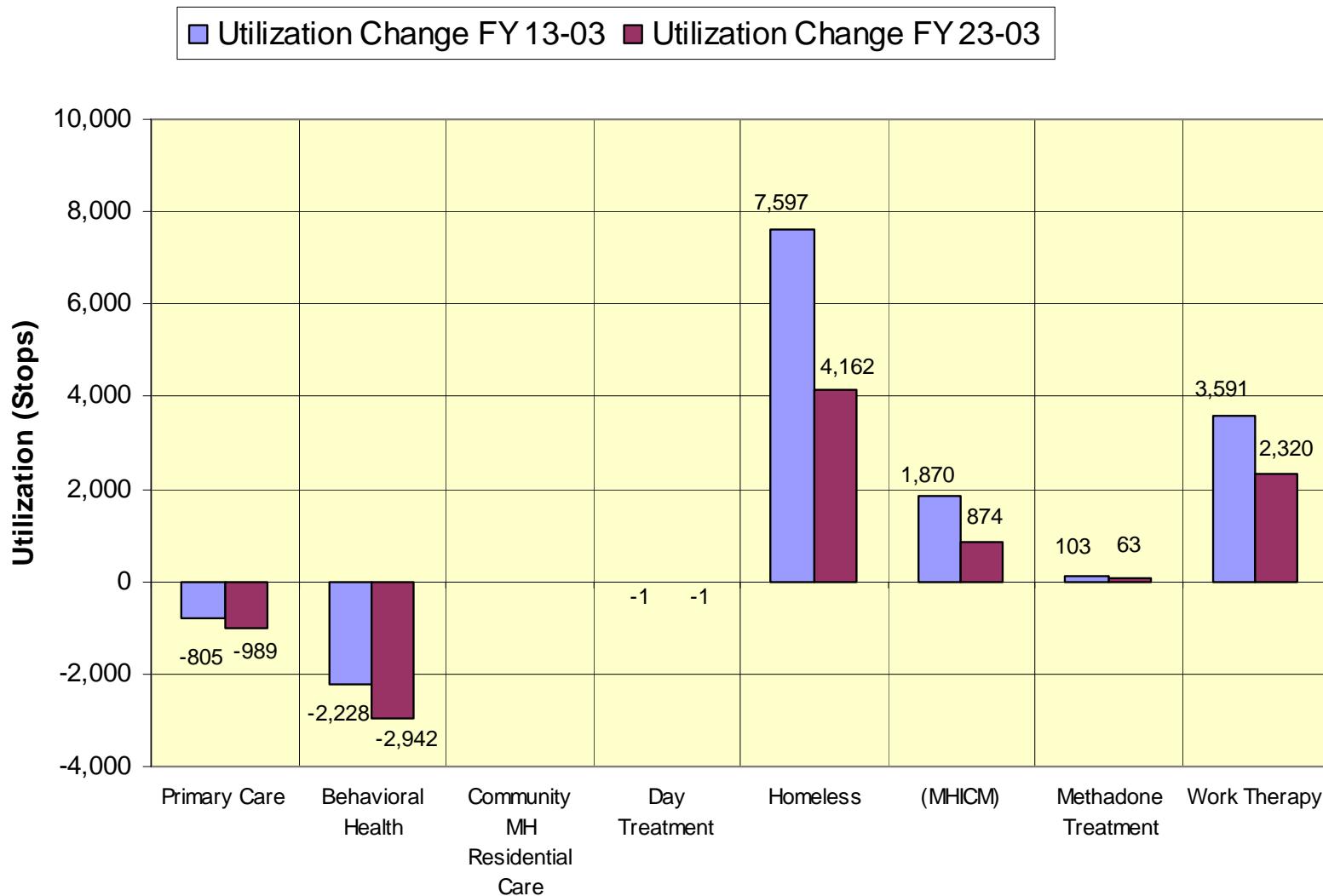


VA NY Harbor HCS Chapel Street CBOC Utilization by CARES Implementation Categories

Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	1,688	883	699	-805	-48%	-989	-59%
Cardiology							
Non-Surgical Specialties							
Eye Clinic							
Surgical							
Urology							
Rehab Medicine							
Orthopedics							
*Ambulatory Total:	1,688	883	699	-805	-48%	-989	-59%
 OP Mental Health Program:	 Baseline Total 2003	 Proj Utilization 2013	 Proj Utilization 2023	 Utiliz Change 13-03	 % Change 13-03	 Utiliz Change 23-03	 % Change 23-03
Behavioral Health	9,575	7,347	6,633	-2,228	-23%	-2,942	-31%
Community MH Residential Care							
Day Treatment	1			-1	-100%	-1	-100%
Homeless	9,206	16,803	13,368	7,597	83%	4,162	45%
(MHICM)	1,456	3,326	2,330	1,870	128%	874	60%
Methadone Treatment		103	63	103		63	
Work Therapy	1,373	4,964	3,693	3,591	262%	2,320	169%
OP Mental Health Program Total:	21,611	32,543	26,087	10,932	51%	4,476	21%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

Chapel Street CBOC Change in Utilization (Ambulatory and Mental Health)

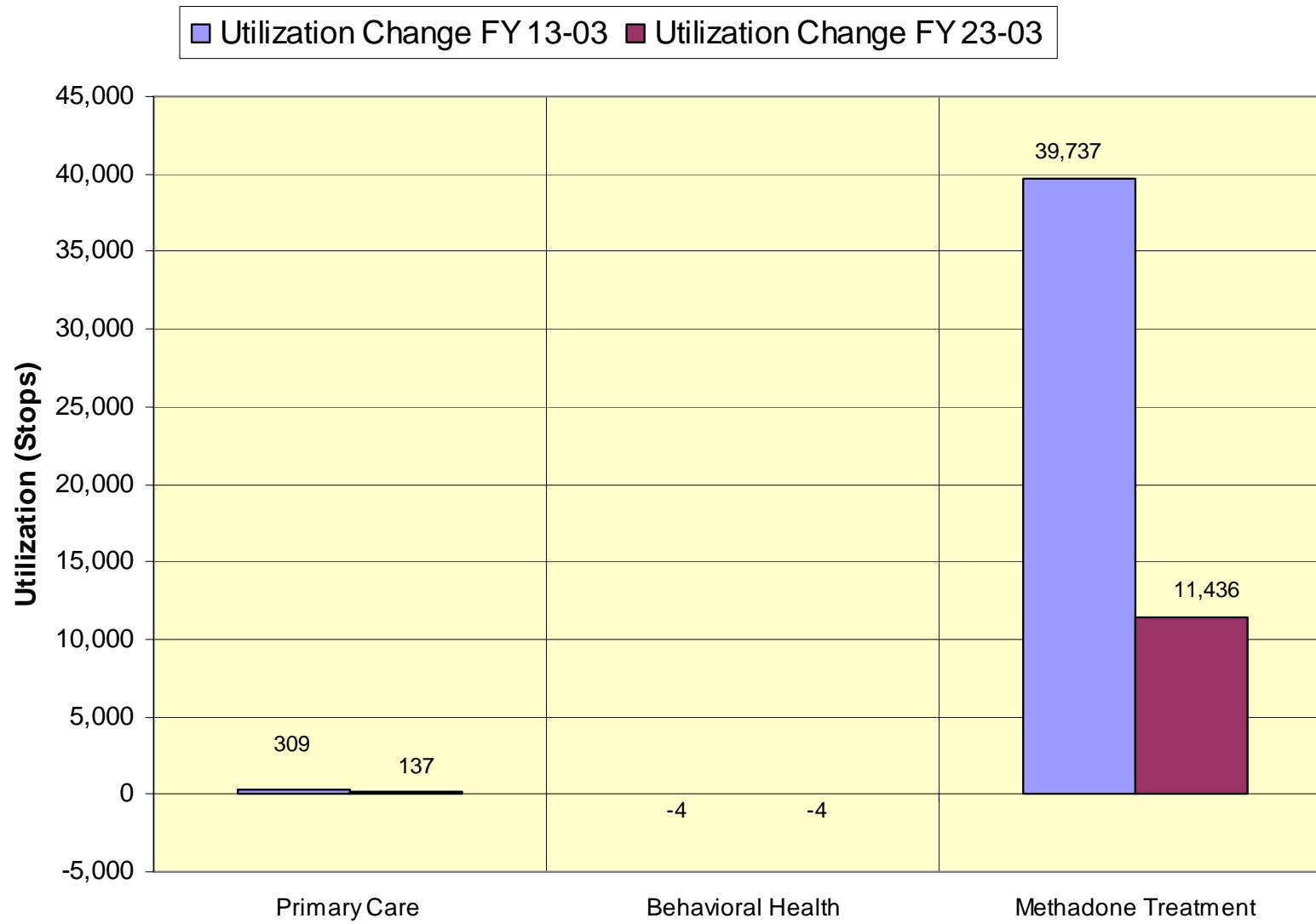


VA NY Harbor HCS: 16th Street CBOC Utilization by CARES Implementation Categories

	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13- 03	% Change 13-03	Utiliz Change 23- 03	% Change 23-03
Ambulatory:							
Primary Care	519	828	656	309	60%	137	26%
<hr/>							
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13- 03	% Change 13-03	Utiliz Change 23- 03	% Change 23-03
Behavioral Health	4			-4	-100%	-4	-100%
Methadone Treatment	27,904	67,641	39,340	39,737	142%	11,436	41%

This CBOC houses the NY Campus Opioid Substitution Program

16th Street CBOC Change in Utilization (Ambulatory and Mental Health)

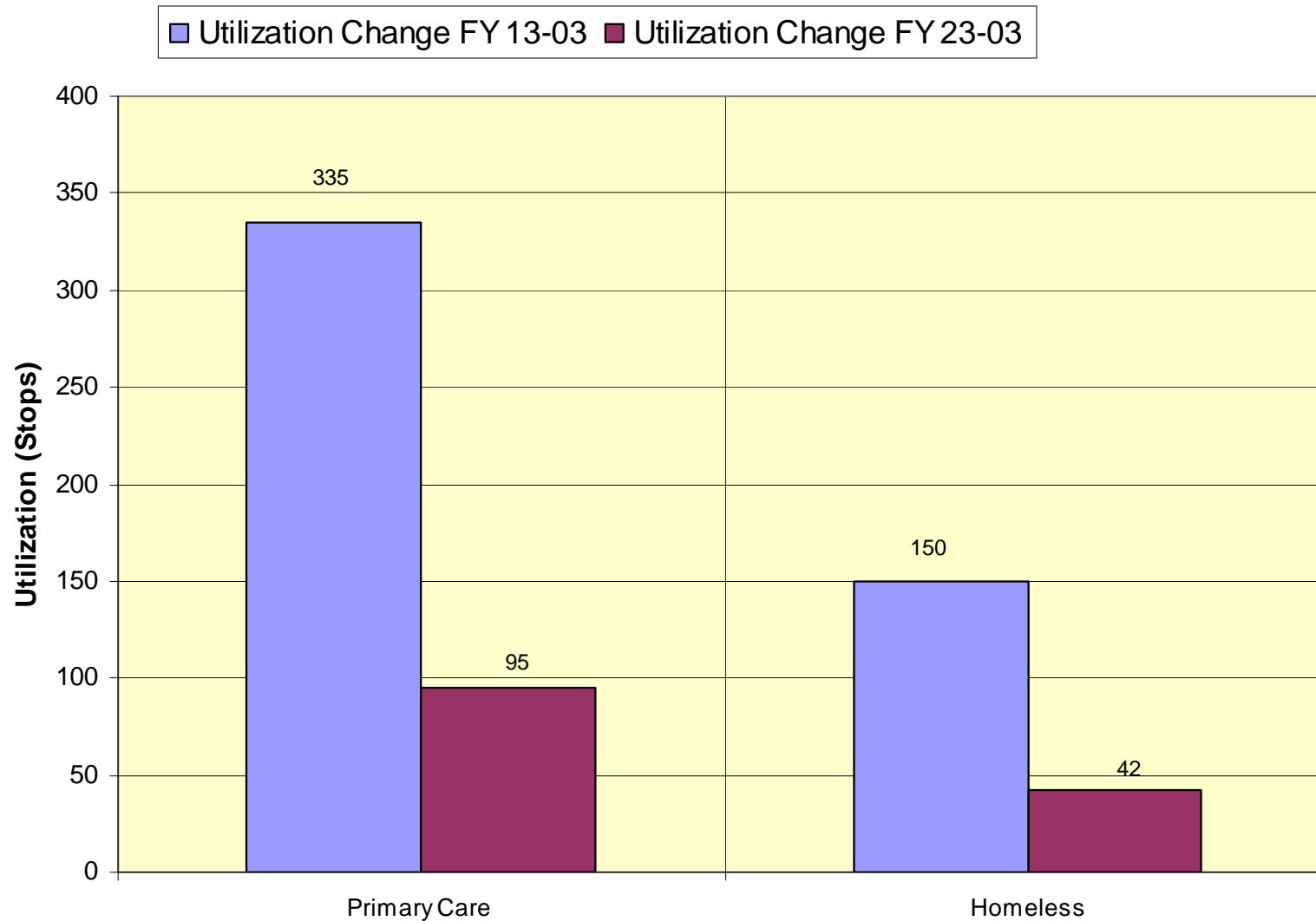


VISN 03 Harlem CBOC Utilization by CARES Implementation Categories

Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	745	1,080	840	335	45%	95	13%
Cardiology							
Non-Surgical Specialties							
Eye Clinic							
Surgical							
Urology							
Rehab Medicine							
Orthopedics							
*Ambulatory Total:	745	1,080	840	335	45%	95	13%
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Behavioral Health							
Community MH Residential Care							
Day Treatment							
Homeless	347	497	389	150	43%	42	12%
(MHICM)							
Methadone Treatment							
Work Therapy							
OP Mental Health Program Total:	347	497	389	150	43%	42	12%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

Harlem CBOC Change in Utilization (Ambulatory and Mental Health)

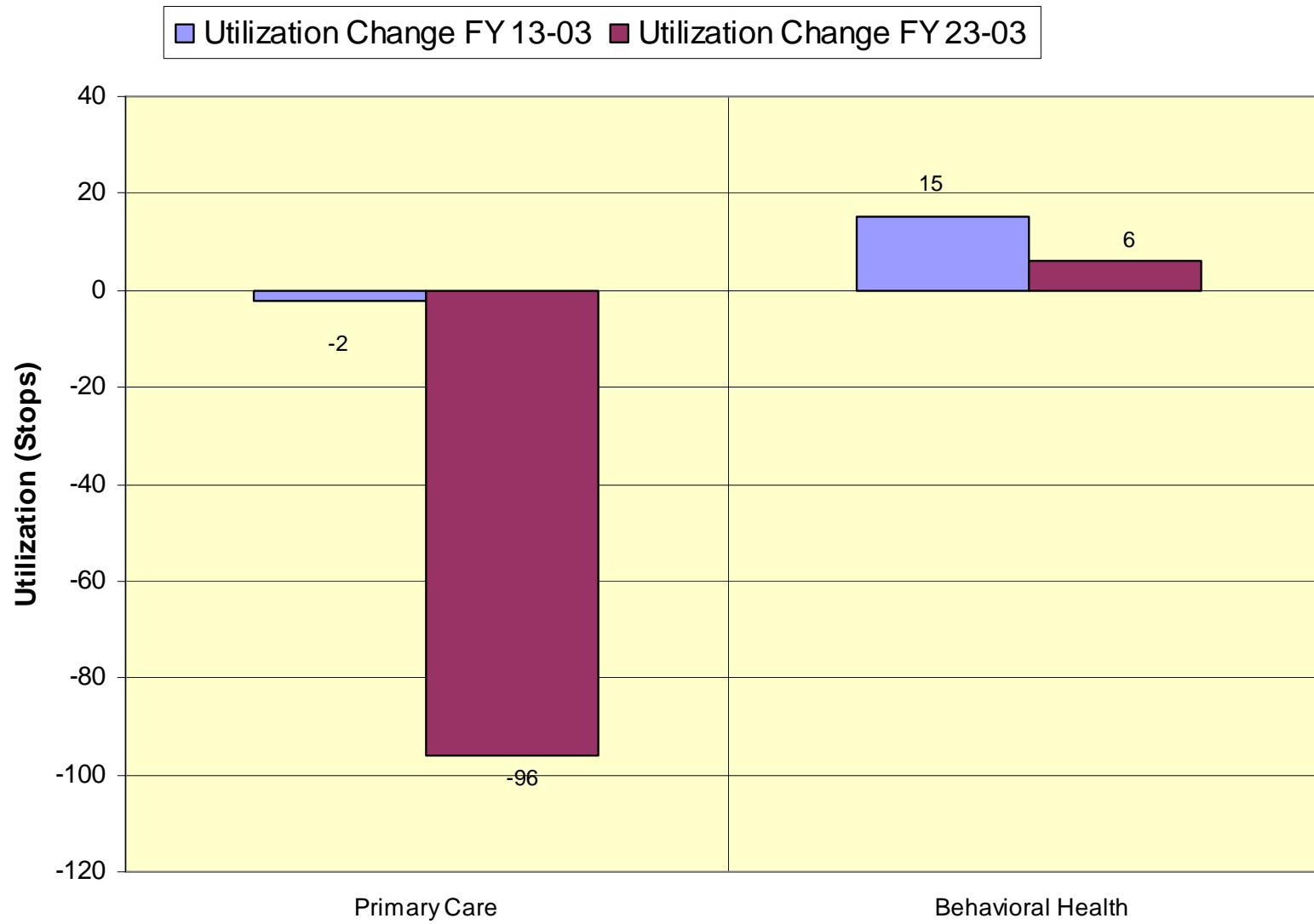


VISN 03 SoHo CBOC Utilization by CARES Implementation Categories

Ambulatory:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Primary Care	448	446	352	-2	0%	-96	-21%
Cardiology							
Non-Surgical Specialties							
Eye Clinic							
Surgical							
Urology							
Rehab Medicine							
Orthopedics							
*Ambulatory Total:	448	446	352	-2	0%	-96	-21%
OP Mental Health Program:	Baseline Total 2003	Proj Utilization 2013	Proj Utilization 2023	Utiliz Change 13-03	% Change 13-03	Utiliz Change 23-03	% Change 23-03
Behavioral Health	69	84	75	15	22%	6	9%
Community MH Residential Care							
Day Treatment							
Homeless							
(MHICM)							
Methadone Treatment							
Work Therapy							
OP Mental Health Program Total:	69	84	75	15	22%	6	9%

* Denotes total for all ambulatory CARES Implementation Categories, not just categories shown above.

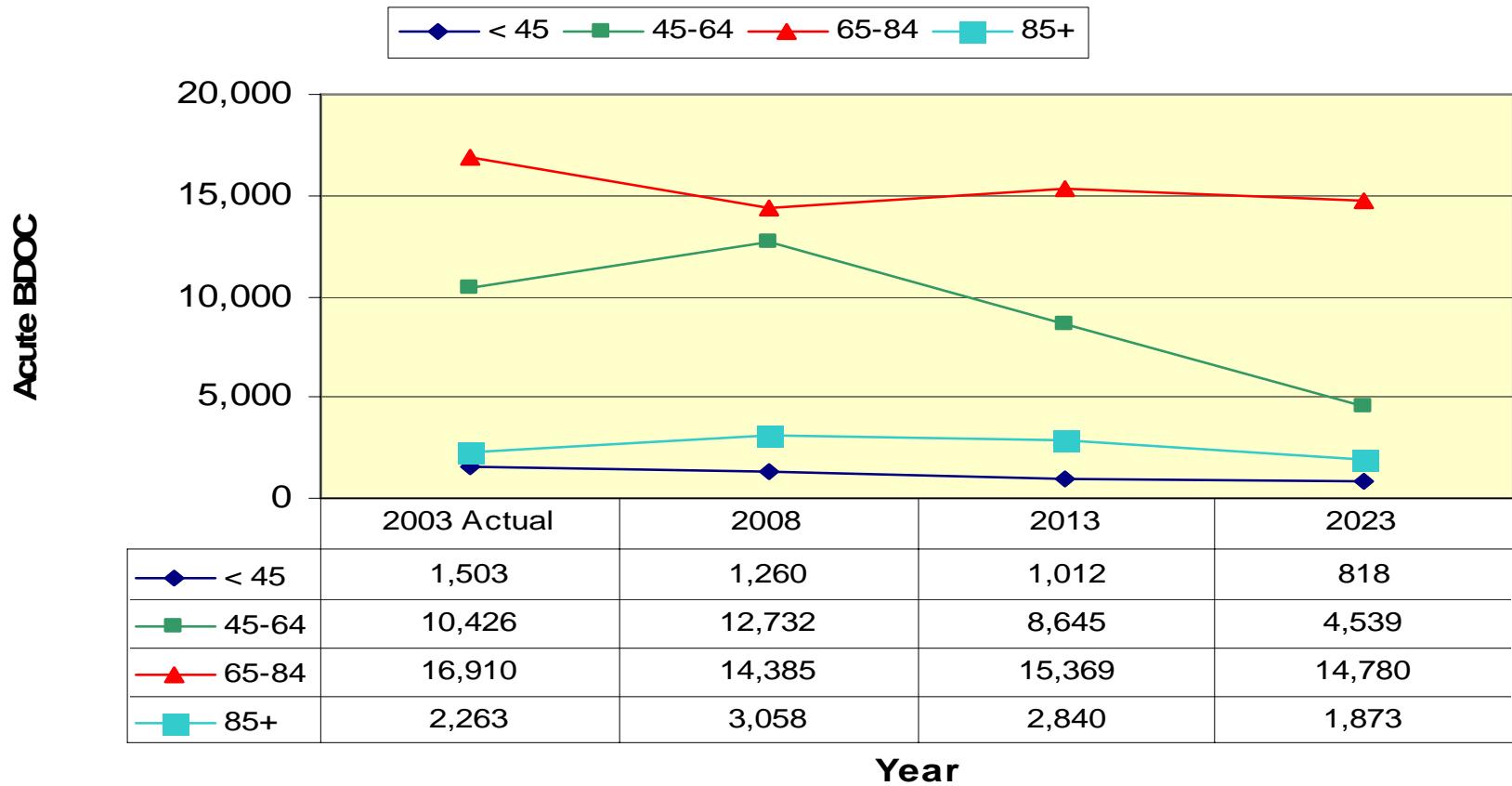
SoHo CBOC Change in Utilization (Ambulatory and Mental Health)



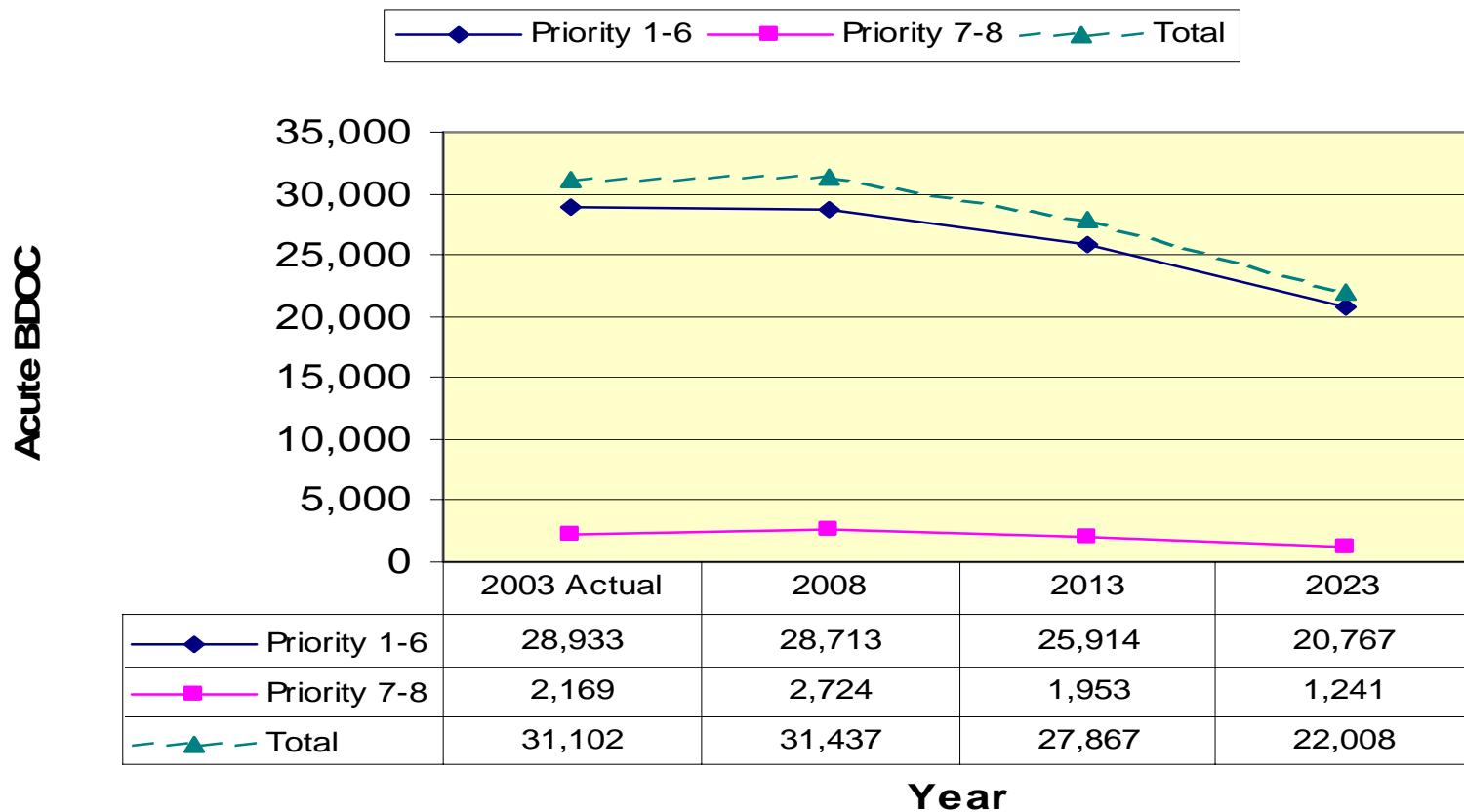
Inpatient Utilization

VA NY Harbor HCS Site Perspective

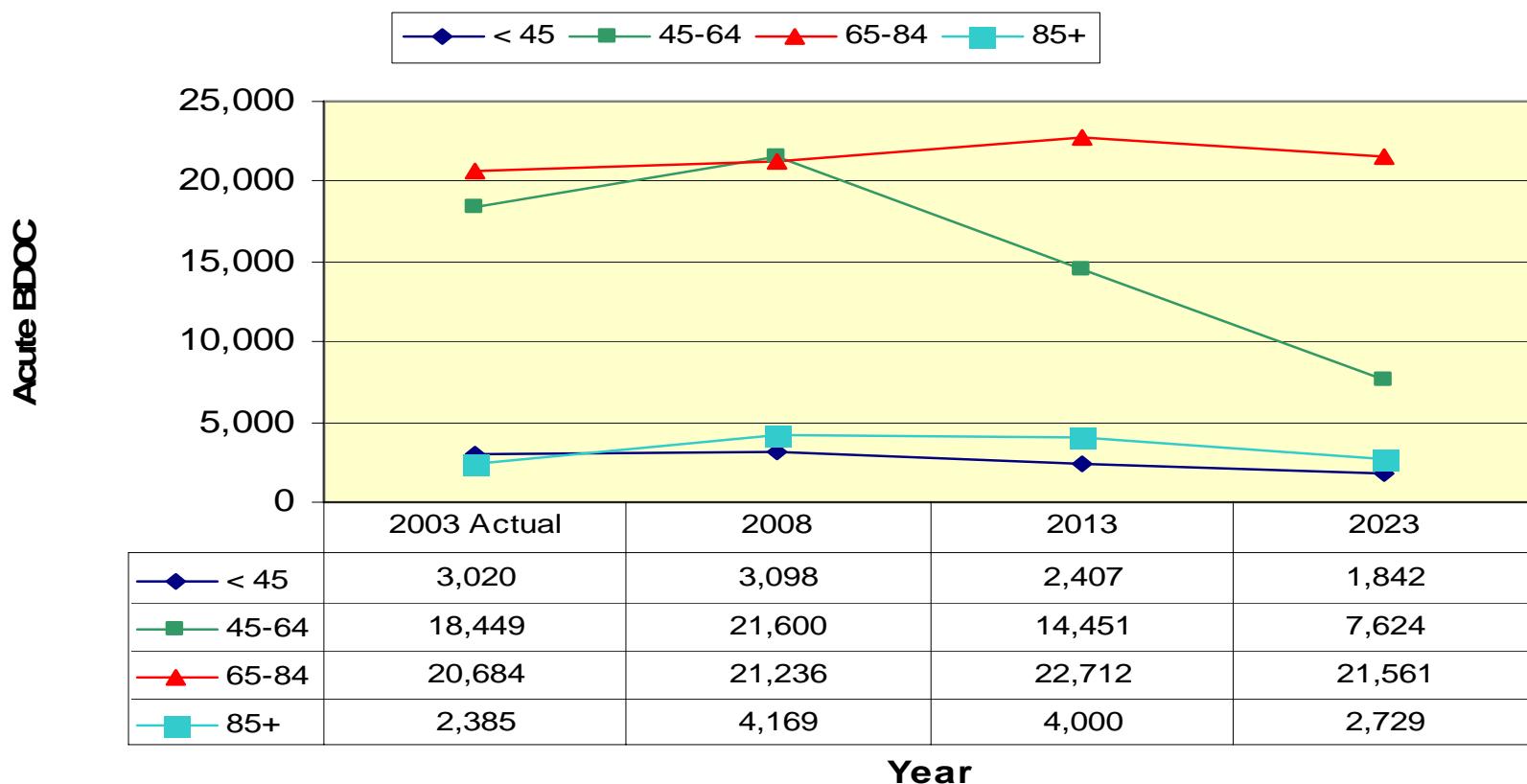
Projected BDOC by Age Group Brooklyn Campus



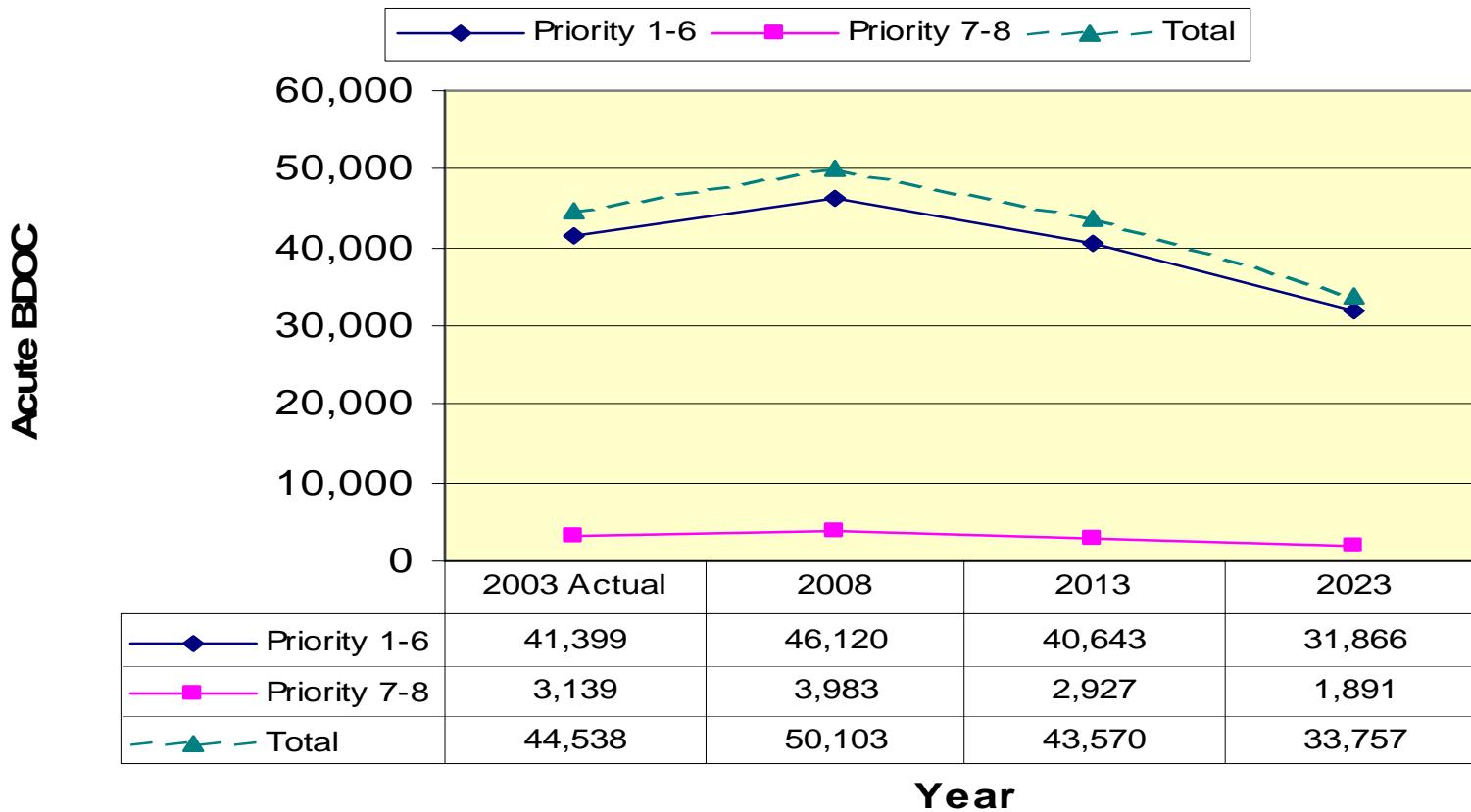
Projected BDOC by Priority Group Brooklyn Campus



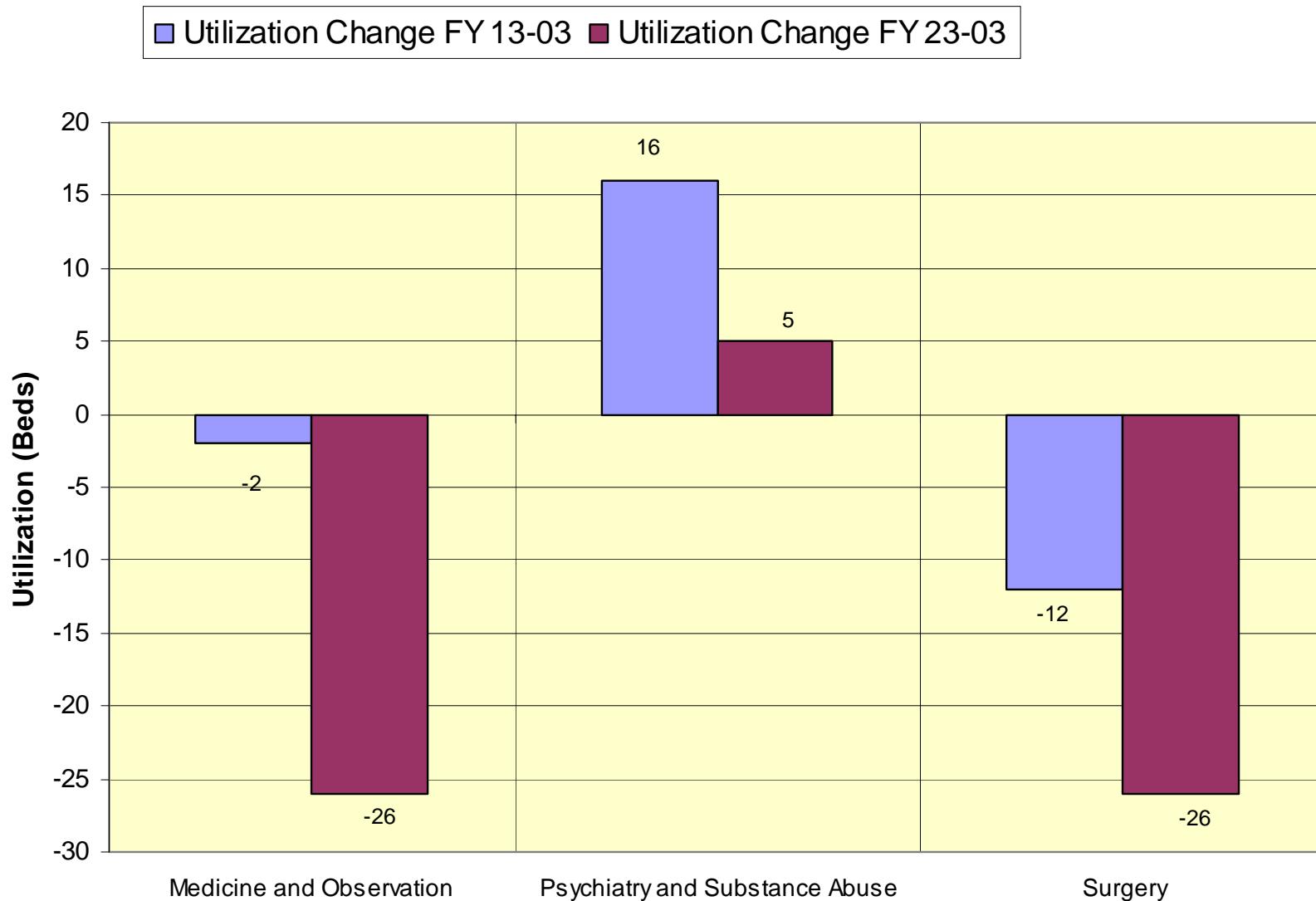
Projected BDOC by Age Group New York Campus



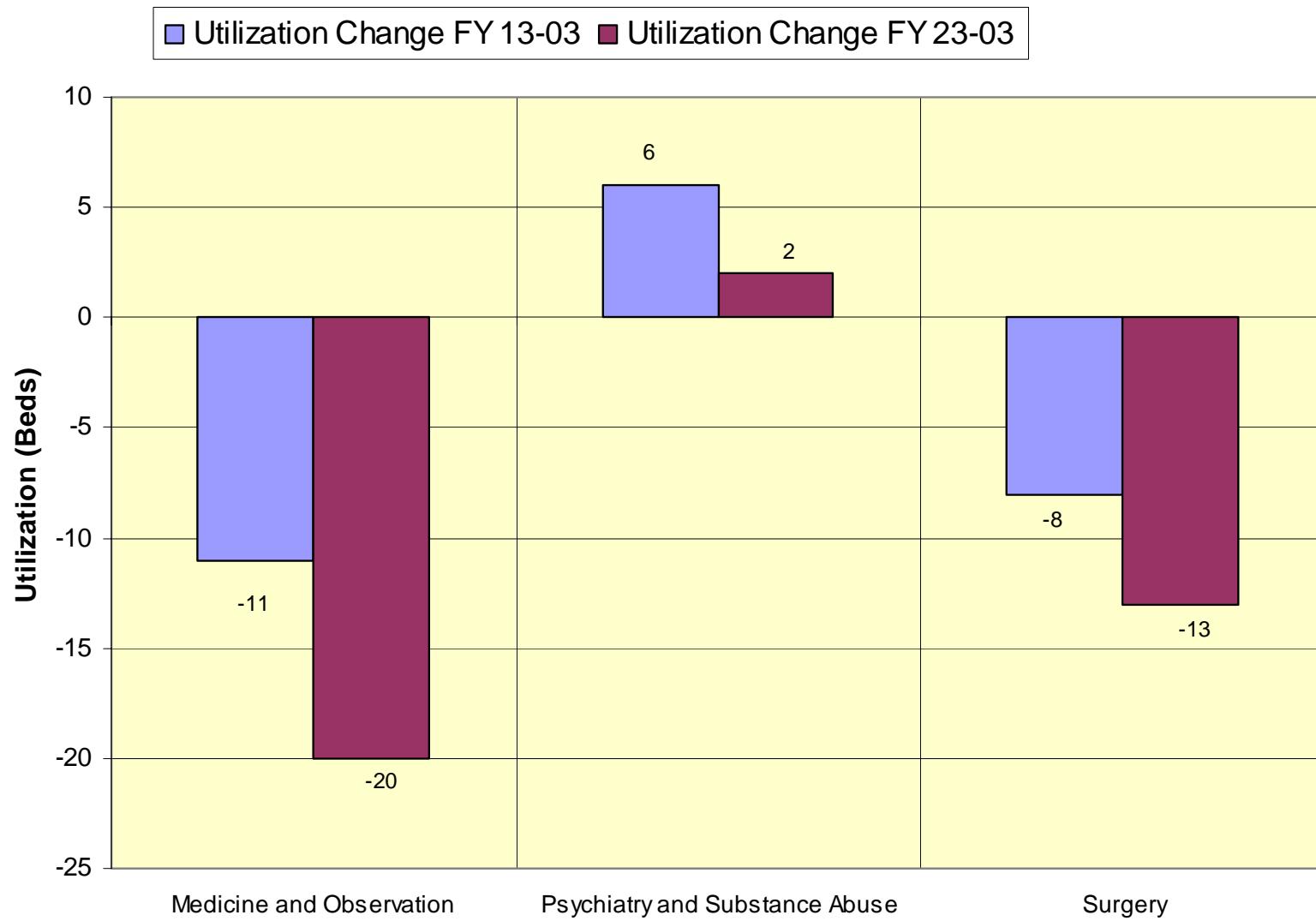
Projected BDOC by Priority Group New York Campus



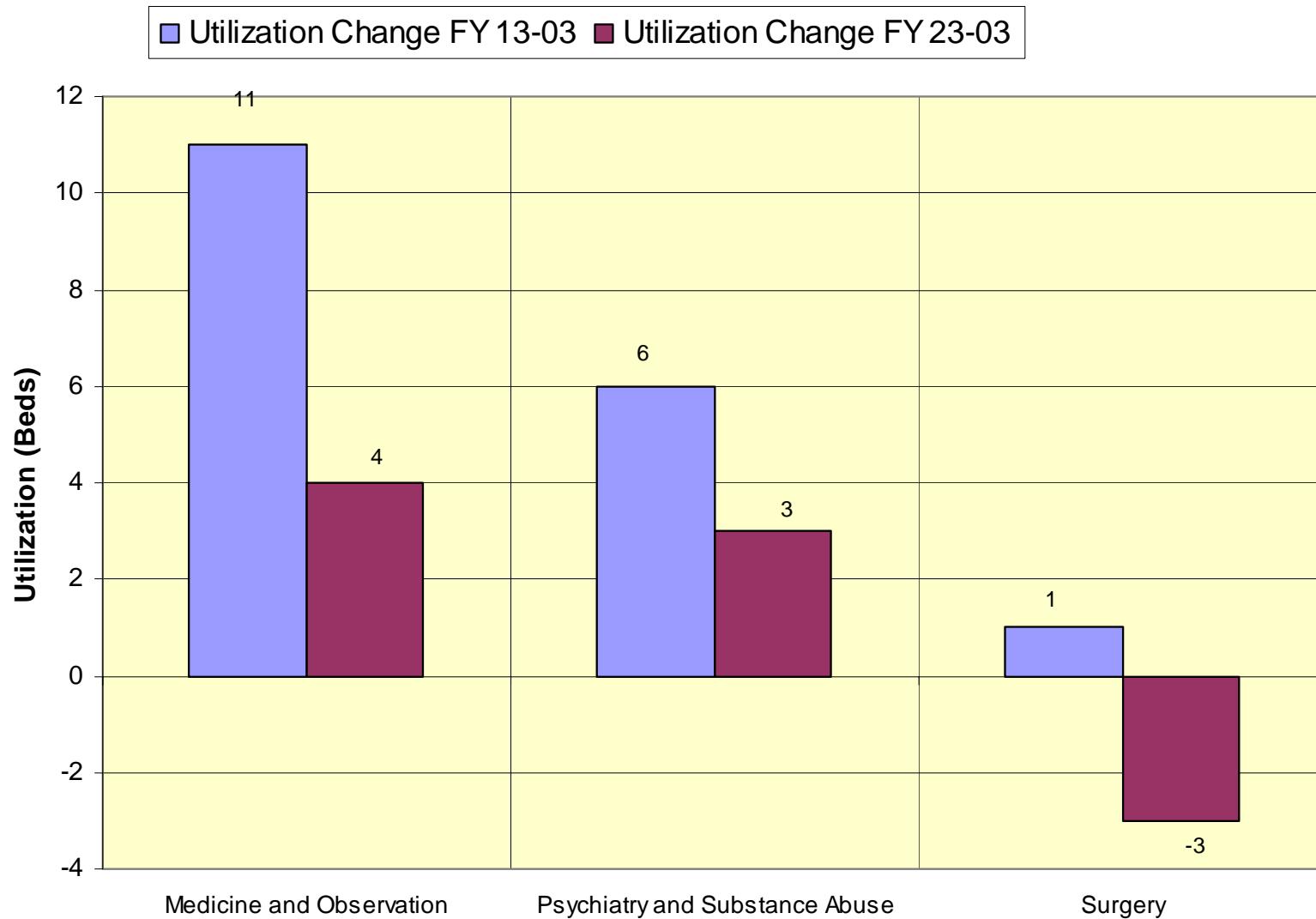
VA NY Harbor HCS Catchment Area Acute Inpatient Utilization, Gap Beds



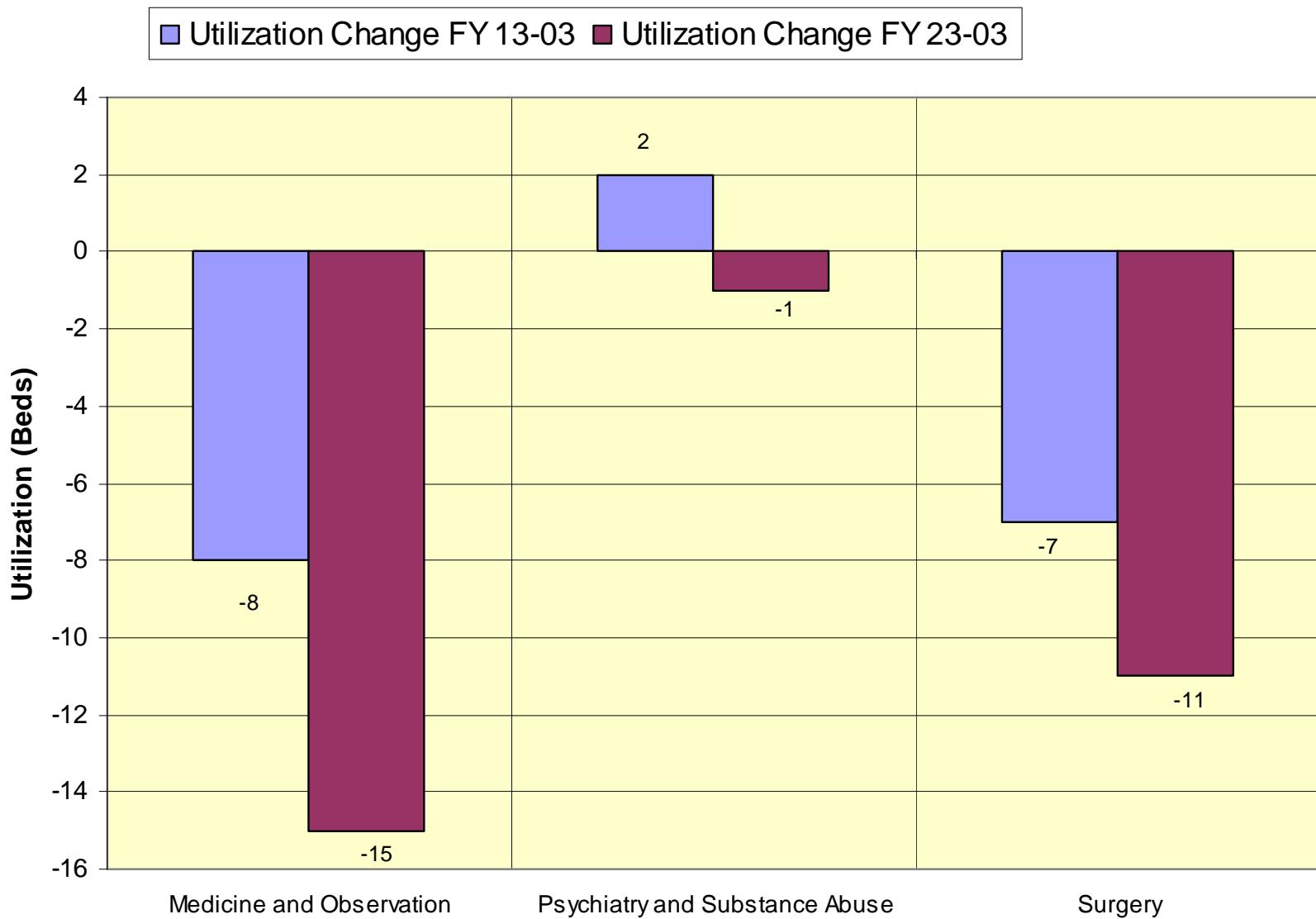
Kings County Sector Acute Inpatient Utilization, Gap Beds



Queens County Sector Acute Inpatient Utilization, Gap Beds

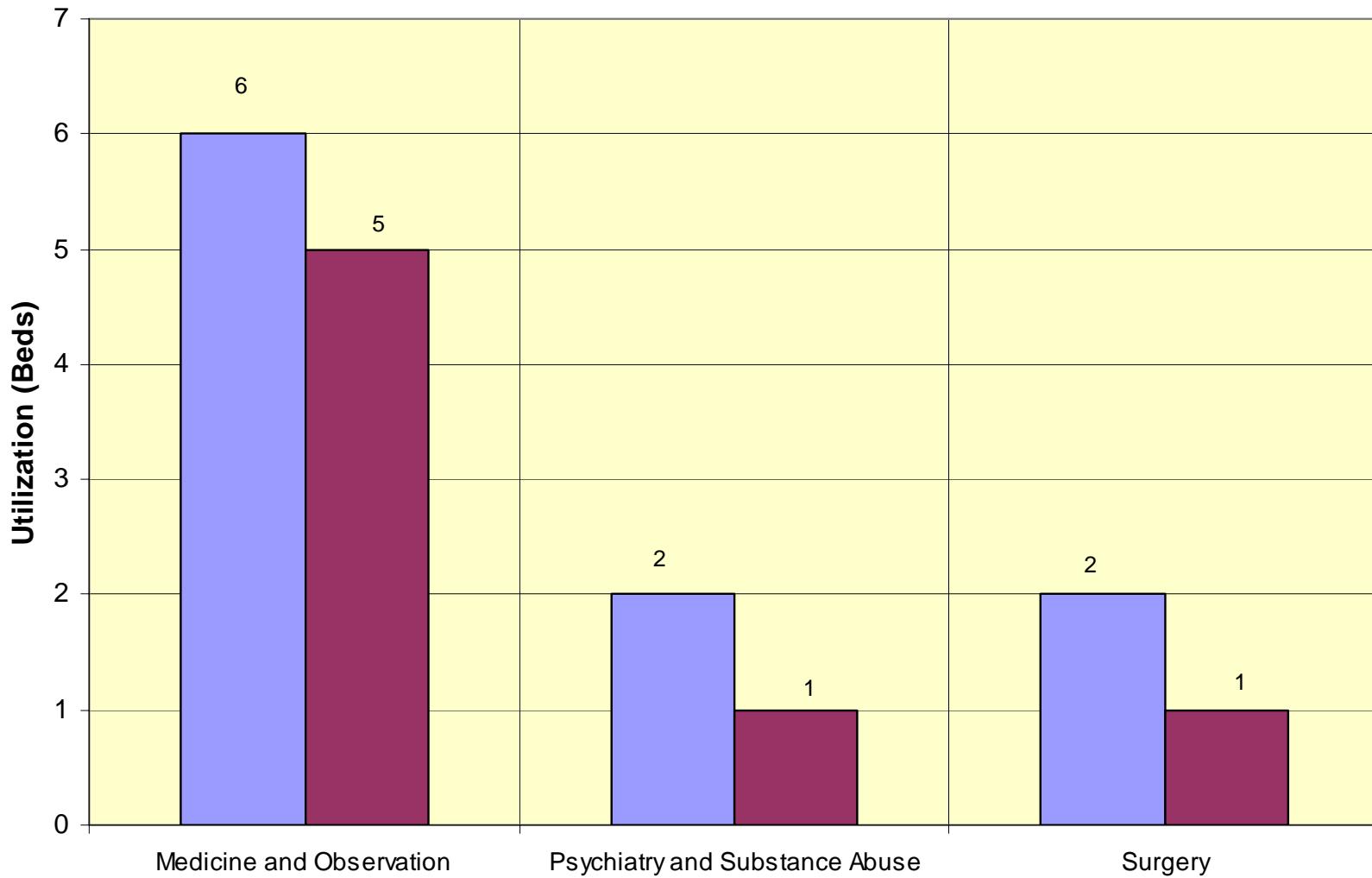


New York County Sector Acute Inpatient Utilization, Gap Beds



Richmond County Sector Acute Inpatient Utilization, Gap Beds

Utilization Change FY 13-03 Utilization Change FY 23-03



Outpatient Utilization

VISN Perspective

Brooklyn Facility Workload from All Markets & VISN 3 (FY 03)

	All Markets	V03	% of Wkld from V03
Ambulatory: Primary Care & Related Specialties	70,875	67,961	95.9%
Ambulatory: Cardiology	11,114	10,743	96.7%
Ambulatory: Non-Surgical Specialties	40,650	39,202	96.4%
Ambulatory: Eye Clinic	16,599	16,096	97.0%
Ambulatory: Surgical & Related Specialties	33,048	31,743	96.1%
Ambulatory: Urology	5,413	5,243	96.9%
Ambulatory: Rehab Medicine	15,680	15,116	96.4%
Ambulatory: Orthopedics	14,810	14,378	97.1%
Ambulatory: Behavioral Health	69,368	66,521	95.9%
OP Mental Health Program: Homeless	9,206	8,429	91.6%
* Ambulatory Total:	441,125	424,784	96.3%
Inpatient Medicine and Observation	19,560	18,747	95.8%
Inpatient Psychiatry and Substance Abuse	4,036	3,649	90.4%
Inpatient Surgery	7,506	7,073	94.2%
Other: VA Mental Health Inpatient Programs	558	549	98.4%
IP Total:	31,660	30,018	94.8%

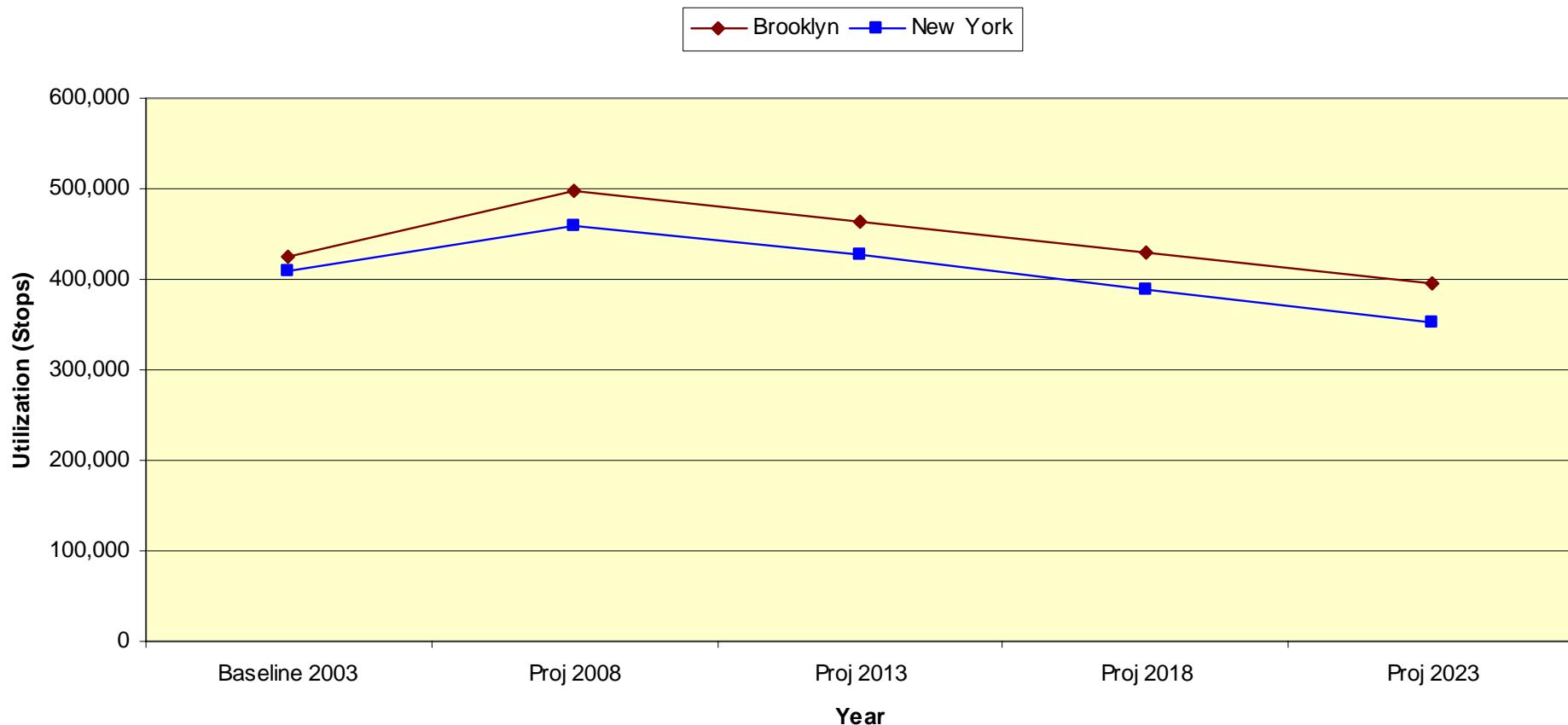
* Denotes total outpatient workload for CARES Implementation Categories, not just categories shown above.

New York Facility Workload from All Markets & VISN 3 (FY 03)

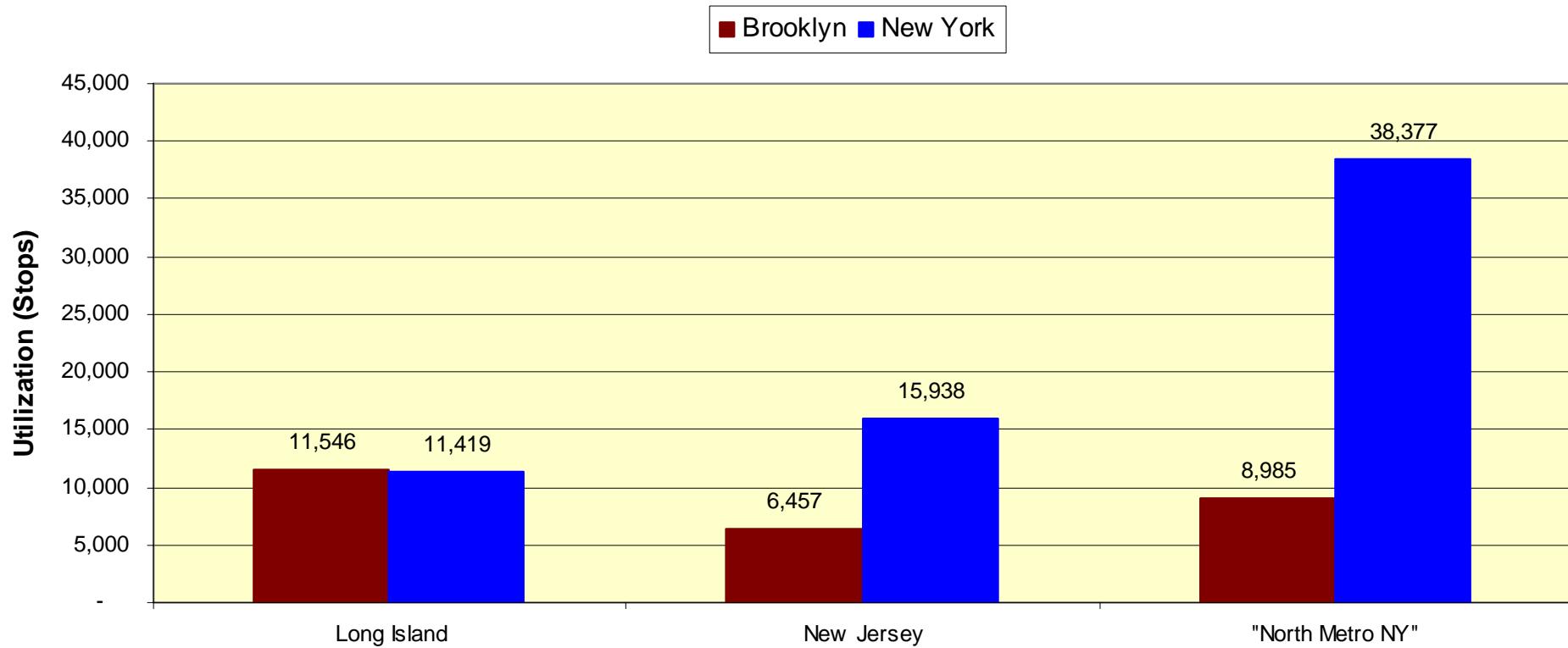
	All Markets	V03	% of Wkld from V03
Ambulatory: Primary Care & Related Specialties	81,493	77,957	95.7%
Ambulatory: Cardiology	11,396	10,750	94.3%
Ambulatory: Non-Surgical Specialties	50,422	48,629	96.4%
Ambulatory: Eye Clinic	16,509	15,998	96.9%
Ambulatory: Surgical & Related Specialties	37,756	36,527	96.7%
Ambulatory: Urology	9,833	9,532	96.9%
Ambulatory: Rehab Medicine	32,041	30,989	96.7%
Ambulatory: Orthopedics	13,106	12,684	96.8%
Ambulatory: Behavioral Health	38,616	36,968	95.7%
OP Mental Health Program: Homeless	1,053	983	93.4%
* Ambulatory Total:	425,323	409,719	96.3%
Inpatient Medicine and Observation	20,948	19,394	92.6%
Inpatient Psychiatry and Substance Abuse	8,134	6,999	86.0%
Inpatient Surgery	15,456	14,199	91.9%
Other: VA Mental Health Inpatient Programs	10,338	9,069	87.7%
IP Total:	54,876	49,661	90.5%

* Denotes total outpatient workload for CARES Implementation Categories, not just categories shown above.

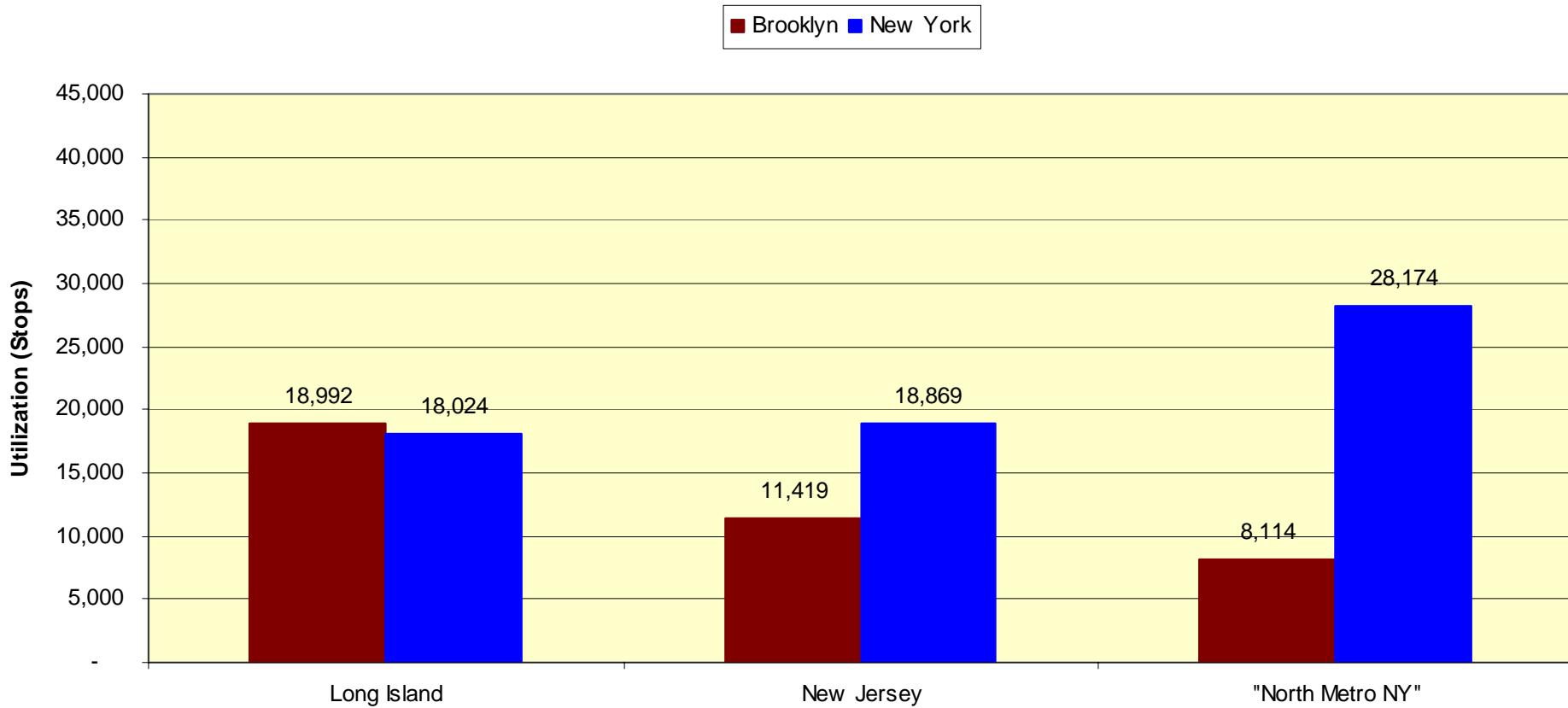
Brooklyn and New York Projected Total Outpatient Workload from VISN 3



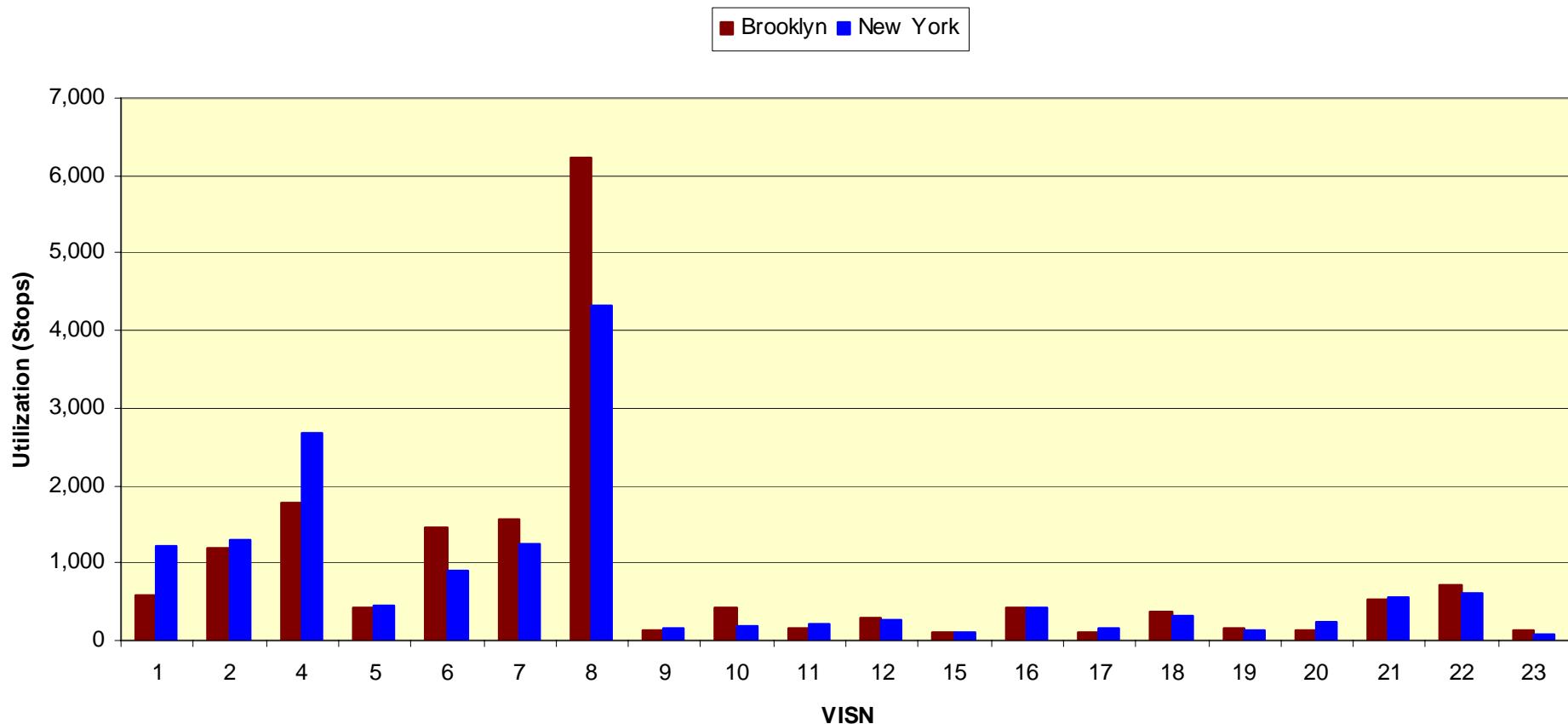
**Brooklyn and New York 2003 Actual Ambulatory Workload from VISN 3
Long Island, New Jersey and "North Metro NY" Markets**



**Brooklyn and New York 2023 Projected Ambulatory Workload from VISN 3
Long Island, New Jersey and "North Metro NY" Markets**



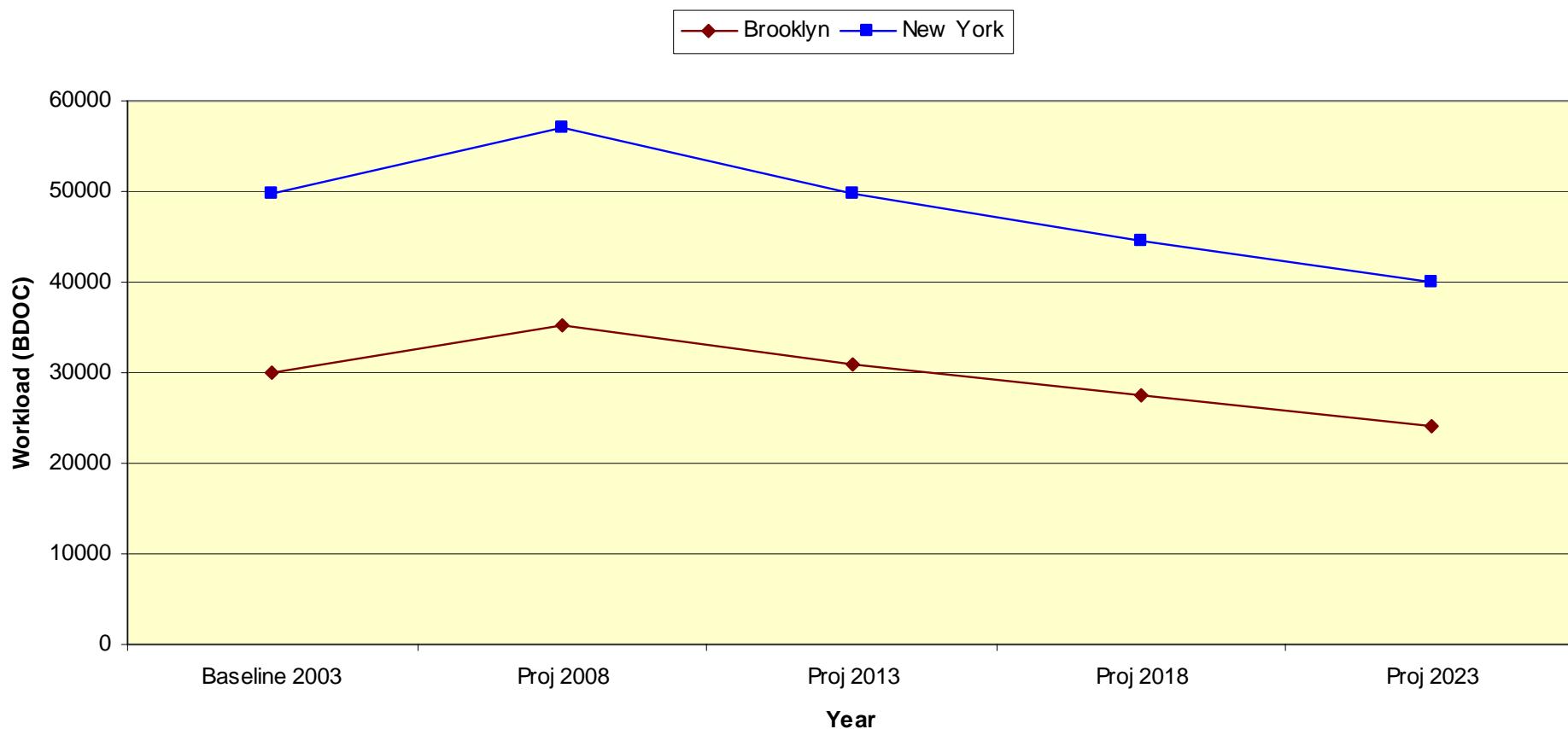
Brooklyn and New York Ambulatory Workload from Other VISNs



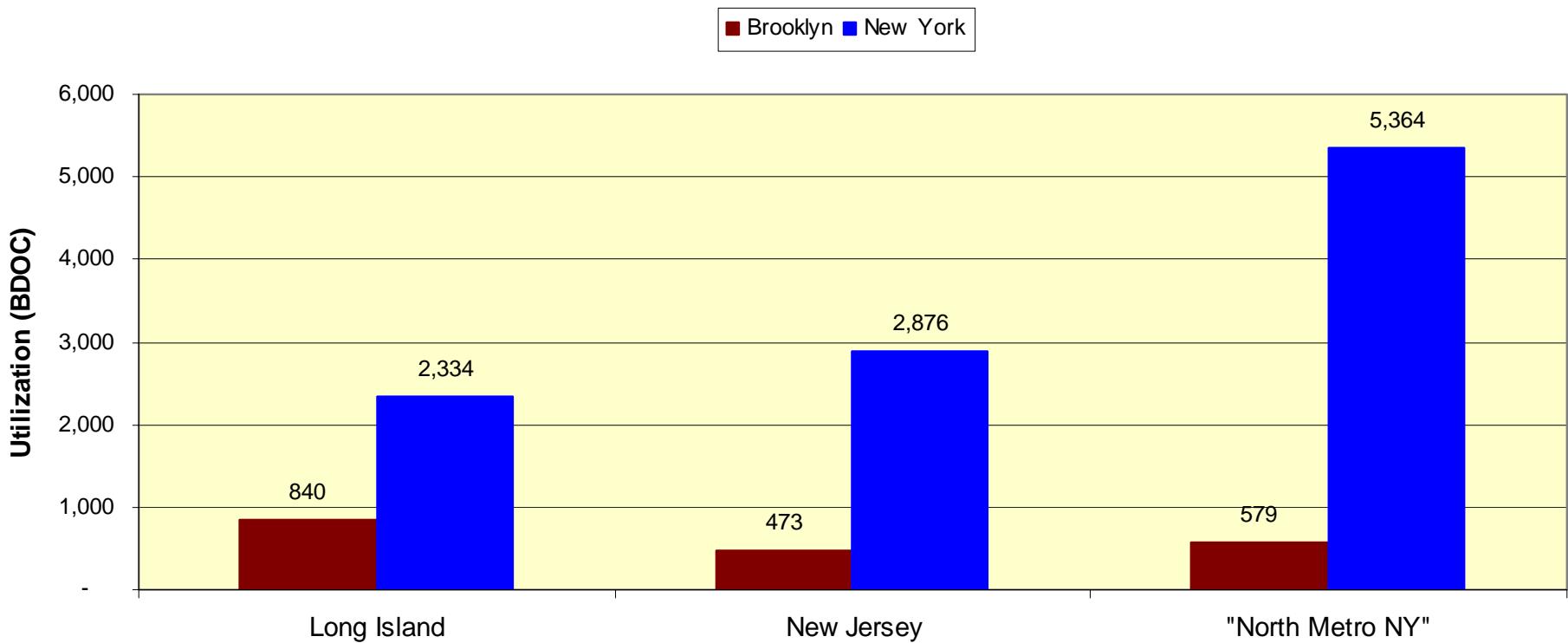
Inpatient Utilization

VISN Perspective

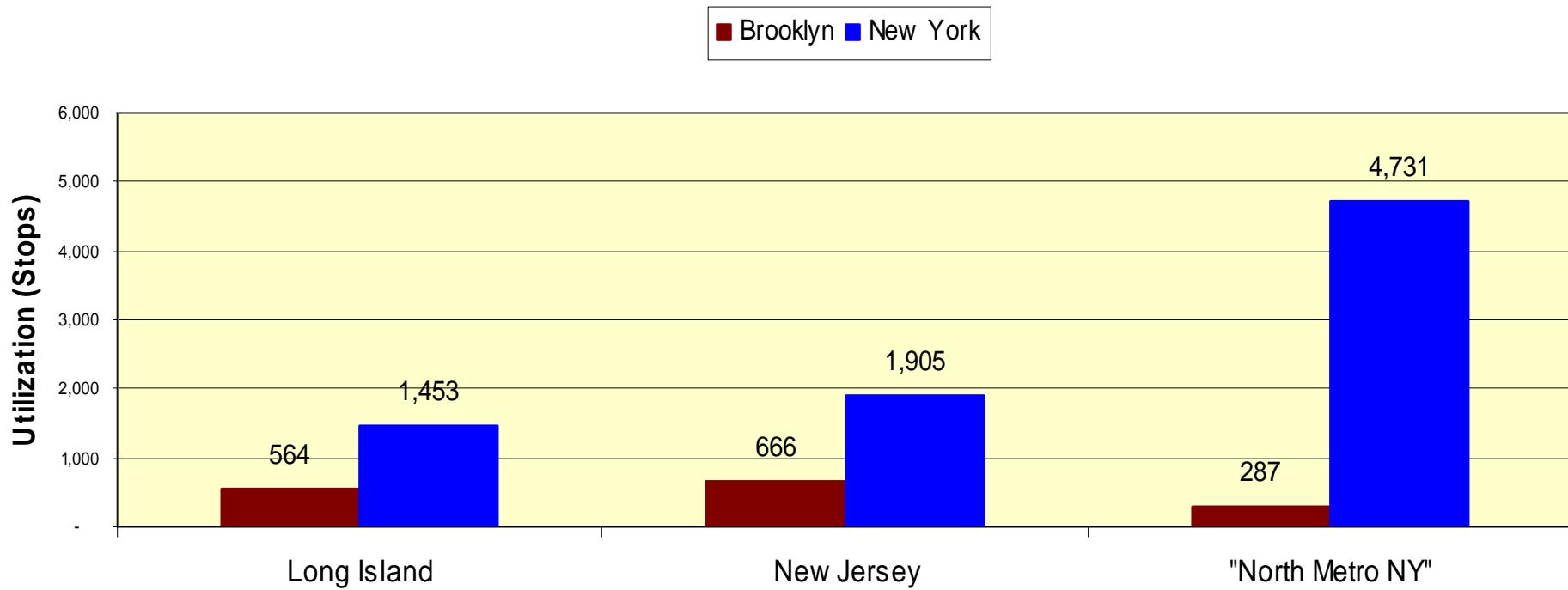
Brooklyn and New York Projected Inpatient Workload from VISN 3



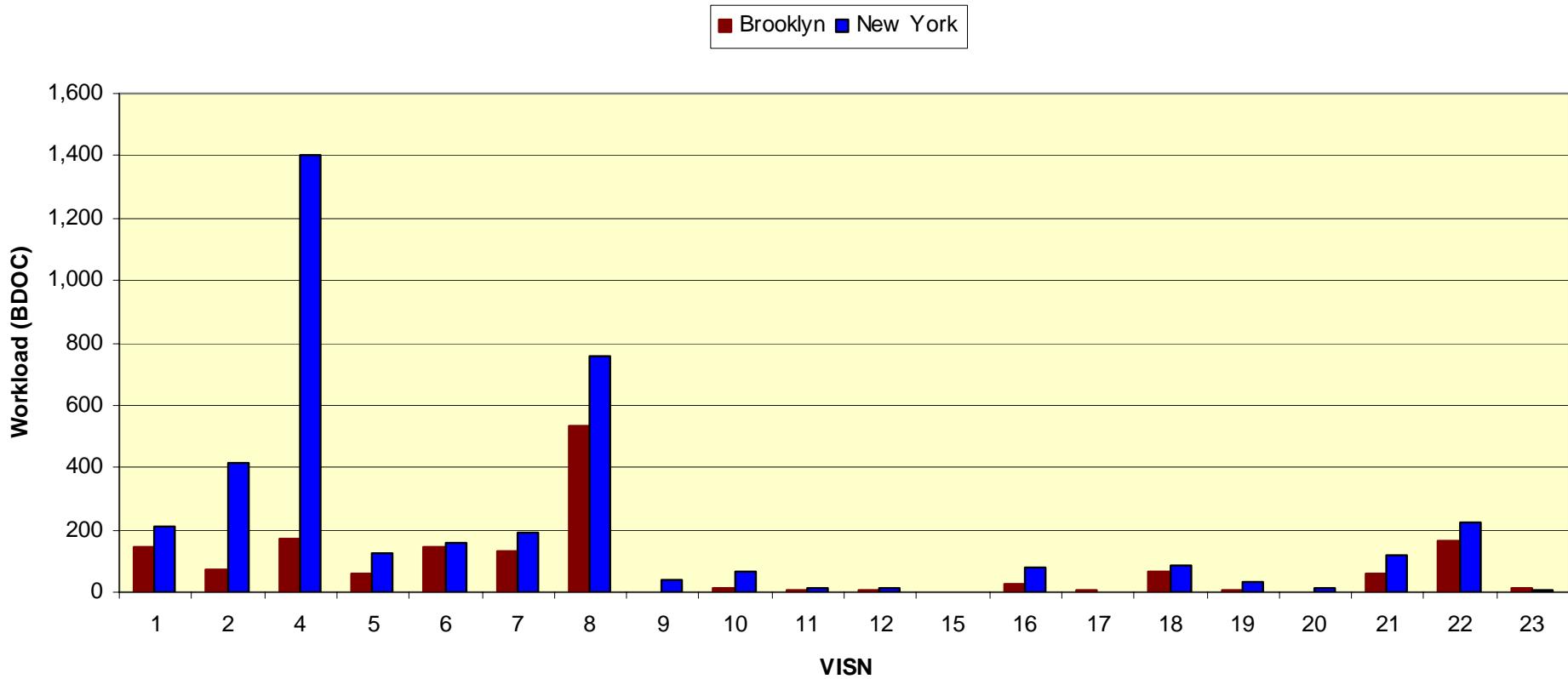
Brooklyn and New York 2003 Actual Inpatient Workload from VISN 3
Long Island, New Jersey and "North Metro NY" Markets



Brooklyn and New York 2023 Projected Inpatient Workload from VISN 3 Long Island, New Jersey and "Metro North NY" Markets



Brooklyn and New York Inpatient Workload from Other VISNs Acute Bed Days of Care



Summary

- Intricate and inter-related utilization patterns from multiple markets for VA NY Harbor HCS sites are evident
- These data do not show the effects of access, quality, cost, medical affiliation, education and research that need to be considered in this study