THE PRISON OFFICERS' PENSION FUND OF NEW JERSEY ANNUAL REPORT OF THE ACTUARY PREPARED AS OF JULY 1, 2006

DOC:V00649JC.DOC



January 10, 2007

Board of Trustees Prison Officers' Pension Fund of New Jersey Trenton, New Jersey

Members of the Board:

The law governing the operation of the Prison Officers' Pension Fund of New Jersey provides for annual actuarial valuations of the Fund. The results of the July 1, 2006 valuation are submitted in this report which also includes a comparison with the preceding year's valuation.

The valuation shows the financial condition of the Fund as of July 1, 2006 and gives the basis for determining the required annual contribution for the plan year beginning July 1, 2006.

The valuation was prepared on the basis of the same assumptions as were employed for the previous valuation which include an interest rate of 5% per year.

The Table of Contents, which follows, highlights the Sections of the Report.

Respectfully submitted,

(Signed) JANET H. CRANNA

Janet H. Cranna Principal, Consulting Actuary

TABLE OF CONTENTS

Section Section	<u>Item</u>	Page No
I	Summary of Key Results	1
II	Employee Data	5
III	Assets, Liabilities and Contributions	7
	 A. Market Value of Assets as of June 30, 2006 B. Reconciliation of Market Value of Assets from June 30, 2005 to June 30, 2006 C. Reconciliation of Actuarial Value of Assets 	
	and Ledger Assets D. Present Value of Benefits E. Tracking of Unfunded Accrued Liability/(Surplus) F. Development of Required Contribution G. Fund Projection	
IV	Comments Concerning the Valuation	10
V	Accounting Information	11
<u>Appendix</u>		
A	Brief Summary of the Benefit and Contribution Provisions as Interpreted for Valuation Purposes	14
В	Outline of Actuarial Assumptions and Methods	16
С	Tabulations Used as a Basis for the 2006 Valuation - Table 1 – Service Retirements - Table 2 – Ordinary Disability Retirements - Table 3 – Accidental Disability Retirements - Table 4 – Active Members' Death Benefits - Table 5 – Retired Members' Death Benefits	17

REPORT ON THE ANNUAL VALUATION OF THE PRISON OFFICERS' PENSION FUND OF NEW JERSEY PREPARED AS OF JULY 1, 2006

<u>SECTION I - SUMMARY OF KEY RESULTS</u>

The Prison Officer's Pension Fund of New Jersey was established under Chapter 220 of the Laws of 1941 and permitted prison officer members of the then State Employees' Retirement System to transfer to the new Fund. Effective January 1, 1960, the Fund was closed to new employees. This report, prepared as of July 1, 2006 presents the results of the annual actuarial valuation of the Fund.

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized on the following pages.

Valuation Date	July 1, 2006	July 1, 2005
Participant Data		
Active Members Retired Members and Beneficiaries Total Participants	$ \begin{array}{r} 0 \\ \hline 184 \\ \hline 184 \end{array} $	0 <u>191</u> 191
Annual Compensation Annual Retirement Allowances	\$ 0 1,297,930	\$ 0 1,382,265
Assets Market Value of Assets Actuarial Value of Assets	\$ 14,014,718 14,014,718	\$ 14,783,465 14,783,465
Contribution Amounts Normal Contribution Accrued Liability Contribution	\$ 0 0	\$ 0 0
Total Contribution	\$ 0	\$ 0

The major benefit and contribution provisions of the statute as reflected in the valuation are summarized in Appendix A. There were no changes from the provisions used in the previous valuation.

The actuarial assumptions and methods used for valuing the Fund are summarized in Appendix B. There were no changes in actuarial assumptions and methods since the previous valuation.

The combination of the plan provisions, actuarial assumptions and member and beneficiary data is used to generate the overall required level of employer contributions. The required contribution is developed in Section III F.

The valuation also generates a balance sheet which summarizes in some detail the total present and prospective assets and liabilities of the Fund. A summary comparison of the balance sheets as of July 1, 2005 and July 1, 2006 is set forth in the following table.

TABLE I COMPARATIVE BALANCE SHEET

	2006	2005
<u>ASSETS</u>		
Market value of assets of Fund	\$ 14,014,718	\$ 14,783,465
Unfunded accrued liability/(surplus)	(5,778,423)	(5,706,308)
Total Assets	\$ 8,236,295	\$ 9,077,157
<u>LIABILITIES</u>		
Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund	\$ 8,236,295	\$ 9,077,157
Present value of benefits to present active members	0	0
Total Liabilities	\$ 8,236,295	\$ 9,077,157

Section V of the report provides information regarding the level of funding for the Fund. Please refer to that Section for a discussion of this topic.

SECTION II - EMPLOYEE DATA

The data employed for the valuation was furnished to the actuary by the Division of Pensions and Benefits. Appendix C contains summary tables which present the number and retirement allowances of members classified by age. The following summarizes and compares the Fund membership as of July 1, 2005 and July 1, 2006 by various categories.

MEMBERSHIP - ACTIVE

• There have been no active participants in the Plan since July 1, 1994.

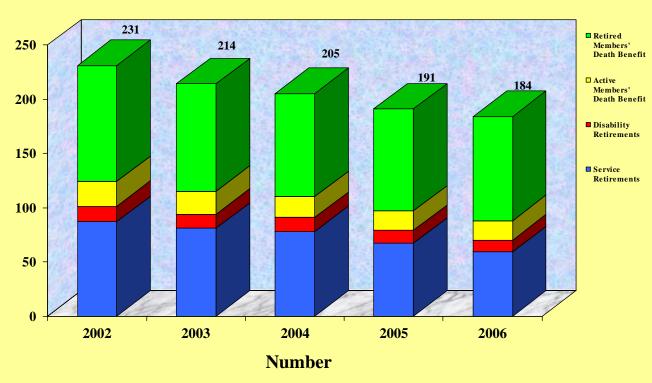
RETIRED MEMBERS AND BENEFICIARIES

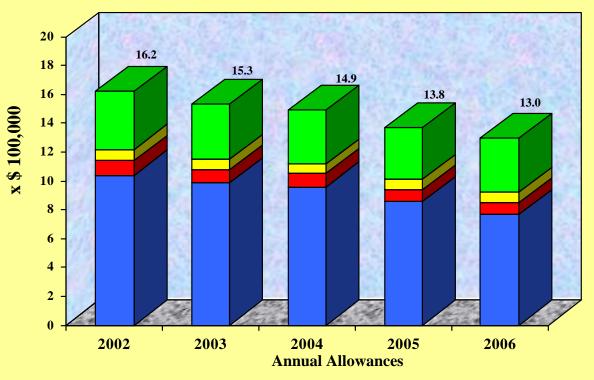
	2	006		2005				
GROUP	Number Number		Number		Number Number		Annual Allowances	
Service Retirements	59	\$	770,635	67	\$	856,342		
Ordinary Disability Retirements	7	\$	45,375	8	\$	50,806		
Accidental Disability Retirements	4	\$	33,554	4	\$	33,554		
Active Members' Death Benefits	18	\$	65,481	18	\$	65,481		
Retired Members' Death Benefits	96	\$	382,885	94	\$	376,082		

Graphic presentations of the statistical data on membership for the five preceding years are shown on the following page.

THE PRISON OFFICERS' PENSION FUND OF NEW JERSEY

SUMMARY OF RETIRED PARTICIPATION





SECTION III - ASSETS, LIABILITIES AND CONTRIBUTIONS

A. Market Value of Assets as of June 30, 2006

	1.	Assets		
		 a. Cash b. Investment Holdings c. Securities Lending Collateral d. Accrued Interest e. Pension Adjustment Receivable 	\$	340,172 13,780,944 353,352 70,272
		f. Total	\$	14,544,740
	2.	Liabilities		
		 a. Pension Payroll Payable b. Pension Adjustment Payroll Payable c. Securities Lending Collateral and Rebates Payable d. Withholdings Payable e. Administrative Expense Payable f. Other Accounts Payable 	\$	58,166 82,881 353,352 31,804 837 2,982
		g. Total	\$	530,022
	3.	Receivable Contribution	\$	0
	4.	Market Value of Assets as of June 30, $2006 = (1(f)) - (2(g)) + (3)$	\$	14,014,718
В.	Recor	nciliation of Market Value of Assets from June 30, 2005 to Jun	ne 30, 200	<u>6</u>
	1.	Market Value of Assets as of June 30, 2005	\$	14,783,465
	2.	Increases		
		 a. Members' Contributions @ 6% b. State Appropriations c. Pension Adjustment d. Investment Income e. Total 	\$	0 0 1,149,159 532,946 1,682,105
	3.	Decreases		
		 a. Retirement Allowances b. Benefit Expense – Pension Adjustment c. Administrative Expenses d. Total 	\$ 	1,294,063 1,149,159 7,630 2,450,852
	4.	Receivable Contribution	\$	0
	5.	Market Value of Assets as of June 30, 2006 = $(1) + (2(e)) - (3(d)) + (4)$	\$	14,014,718

C.	Recor	nciliation of Actuarial Value of Assets and Ledger Assets	
	1.	Actuarial Value of Assets (Retirement Reserve Fund)	\$ 14,014,718
	2.	Pension Adjustment Fund: A(2)(b) - A(1)(e)	 120,099
	3.	Total Ledger Assets	\$ 14,134,817
D.	Prese	nt Value of Benefits	
	1.	Active Members	
		a. Service Retirementb. Death Before Retirementc. Death After Retirement	\$ 0 0 0
		d. Total	\$ 0
	2.	Service Retirees	\$ 5,293,776
	3.	Disability Retirees	\$ 471,901
	4.	Beneficiaries	\$ 2,470,618
	5.	Total = (1(d)) + (2) + (3) + (4)	\$ 8,236,295
E.	Track	sing of Unfunded Accrued Liability/(Surplus)	
	1.	Unfunded Accrued Liability/(Surplus) as of July 1, 2005	\$ (5,706,308)
	2.	Interest on 1 at 5.00%	(285,315)
	3.	Contributions received	0
	4.	Interest on 3 at 5.00%	 0
	5.	Expected Unfunded Accrued Liability/(Surplus) as of July 1, $2006 = (1) + (2) - (3) - (4)$	\$ (5,991,623)
	6.	Actual Unfunded Accrued Liability/(Surplus) as of July 1, 2006	\$ (5,778,423)
	7.	Actuarial Loss/(Gain) = $(6) - (5)$	\$ 213,200

F. <u>Development of Required Contribution</u>

1.	Present Value of Benefits as of July 1, 2006	\$ 8,236,295
2.	Present Value of Future Contributions:	
	a. Future State Appropriationsb. Future Employee Contributionsc. Future State Normal Contributions	\$ 0 0 0
	d. Total	\$ 0
3.	Actuarial Value of Assets as of July 1, 2006	\$ 14,014,718
4.	Actuarial Surplus: $(1) - (2(d)) - (3)$	\$ (5,778,423)
5.	Amortization of Loss/Gain	\$ 0
6.	State Appropriations from prior valuation	\$ 0
7.	State Appropriations Payable July 1, 2007: $(5) + (6)$; not less than zero	\$ 0

G. Fund Projection

The following is an estimate of the expected receipts and disbursements for the Fund over the next year. The projection is based on the assumptions set forth in Appendix B. All receipts and disbursements are assumed to occur mid-year.

Year	July 1 Fund Balance	State Appropriations		Member Contributions		Pension Payments	Interest	
2006	\$ 14,014,718	\$	0	\$	0	\$1,251,786	\$ 669,823	

SECTION IV - COMMENTS CONCERNING THE VALUATION

The variation in liabilities and contributions reflects the Fund's actual experience during the year. The Fund experienced a net actuarial loss during the year that ended June 30, 2006.

The actuarial loss was due primarily to a less than expected return on Fund assets. For valuation purposes, a 5.00% per annum rate of return on investments was assumed. The actual return on the Fund's actuarial value of assets was approximately 3.77% for the period July 1, 2005 through June 30, 2006.

There was also a relatively small experience loss due to mortality experience among the retired participants.

The actual accrued liability released due to deaths among retired participants and beneficiaries was less than anticipated by the present mortality assumptions.

The following outlines the effect of the primary actuarial experience components:

•	Investment Loss (Gain)	\$ 174,081
•	Other Loss (Gain), including mortality, changes in employee data	 39,119
•	Total Actuarial Loss (Gain)	\$ 213,200

SECTION V - ACCOUNTING INFORMATION

Statement No. 5 of the Governmental Accounting Standards Board, issued November 1986, established standards of disclosure of pension information by public retirement systems. Statement No. 25 of the Governmental Accounting Standards Board, issued November 1994, established financial reporting standards for defined benefit pension plans and for the notes to the financial statements of defined contribution plans of state and local governmental liabilities and superseded Statement No. 5 effective for periods beginning after June 15, 1996. Statement No. 27, Accounting for Pensions by State and Local Governmental Employers superseded Statement 5 for employers participating in pension plans and is effective for periods beginning after June 15, 1997.

The information required by Statements No. 25 and No. 27 is presented in the following tables. These include the development of the Annual Required Contribution (ARC), the development of the Net Pension Obligation (NPO), the Schedule of Funding Progress and the Schedule of Employer Contributions.

(A) Development of the Annual Required Contribution (ARC) as of June 30, 2008:

1. Actuarial Value of Plan Assets as of June 30, 2006

(a)	Valuation Assets as of June 30, 2006	\$ 14,014,718
(b)	Adjustment for Receivable Contributions included in (a)	 0
(c)	Valuation Assets as of June 30, 2006 for GASB Disclosure = (a) - (b)	\$ 14,014,718

2.	Actuarial Accrued Liability as of June 30, 2006 for GASB Disclosure	\$	8,236,295
3.	Unfunded Actuarial Accrued Liability/(Surplus) as of June $30, 2006 = (2) - (1 (c))$	\$	(5,778,423)
4.	Amortization of Unfunded Actuarial Accrued Liability/(Surplus) over 1 year	\$	(5,778,423)
5.	Normal Cost as of June 30, 2006	\$	0
6.	Annual Required Contribution as of June 30, 2008		
	(a) Annual Required Contribution as of June 30, 2006 = (4) + (5)	\$	(5,778,423)
	(b) Interest Adjustment to June 30, 2008		(592,288)
	(c) Annual Required Contribution as of June 30, 2008 = (a) + (b)	\$	(6,370,711)
(D)	Development of the Net Densier Obligation (NDO) as of Ives 20, 200		
(B)	<u>Development of the Net Pension Obligation (NPO) as of June 30, 200</u>	<u> 18:</u>	
(B)	Annual Required Contribution as of June 30, 2008	<u>98:</u> \$	(6,370,711)
			(6,370,711) (314,560)
1.	Annual Required Contribution as of June 30, 2008		, , , ,
1. 2.	Annual Required Contribution as of June 30, 2008 Interest on Net Pension Obligation		(314,560)
 2. 3. 	Annual Required Contribution as of June 30, 2008 Interest on Net Pension Obligation Adjustment to Annual Required Contribution	\$	(314,560) 6,605,765
 2. 3. 4. 	Annual Required Contribution as of June 30, 2008 Interest on Net Pension Obligation Adjustment to Annual Required Contribution Annual Pension Cost = $(1) + (2) + (3)$ Expected Employer Contributions For	\$ \$	(314,560) 6,605,765 (79,506)
1. 2. 3. 4. 5.	Annual Required Contribution as of June 30, 2008 Interest on Net Pension Obligation Adjustment to Annual Required Contribution Annual Pension Cost = $(1) + (2) + (3)$ Expected Employer Contributions For Fiscal Year 2008	\$ \$ \$	(314,560) <u>6,605,765</u> (79,506) 0

(C) <u>Schedule of Funding Progress</u>

Actuarial Valuation	Actuarial Value of Assets			Ac	Unfunded Actuarial crued Liability	Funded Ratio	Covered Payroll	Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll (b-a)
Date	(a)		(b)		(b-a)	(a/b)	(c)	c
6/30/01	\$ 18,269,899	\$	12,994,567	\$	(5,275,332)	140.6%	N/A	N/A
6/30/02	\$ 17,908,452	\$	11,781,734	\$	(6,126,718)	152.0%	N/A	N/A
6/30/03	\$ 17,277,953	\$	10,727,647	\$	(6,550,306)	161.1%	N/A	N/A
6/30/04	\$ 15,884,428	\$	10,060,710	\$	(5,823,718)	157.9%	N/A	N/A
6/30/05	\$ 14,783,465	\$	9,077,157	\$	(5,706,308)	162.9%	N/A	N/A
6/30/06	\$ 14,014,718	\$	8,236,295	\$	(5,778,423)	170.2%	N/A	N/A

(D) Schedule of Employer Contributions

	nual Required	Employer	Percentage		
Fiscal Year	Contribution	Contribution	Contributed		
2003	\$ 0	\$ 0	100.0%		
2004	\$ 0	\$ 0	100.0%		
2005	\$ 0	\$ 0	100.0%		
2006	\$ 0	\$ 0	100.0%		
2007	\$ 0	\$ 0	100.0%		
2008	\$ 0	\$ 0	100.0%		

(E) The information presented in the required supplementary schedules was determined as part of the actuarial valuation. Additional information follows:

Valuation Date June 30, 2006

Actuarial Cost Method Projected Unit Credit

Amortization Method Level Dollar, closed

Remaining Amortization Period 1 year

Asset Valuation Method Market Value

Actuarial Assumptions:

Investment Rate of Return 5.00%

APPENDIX A

BRIEF SUMMARY OF THE BENEFIT AND CONTRIBUTION PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

Eligibility for Membership

Employees of State penal institutions, employed prior to January 1, 1960 who did not transfer to the Police & Firemen's Retirement System in accordance with Chapter 205 of Public Law 1989. The System no longer accepts new members.

1. <u>Definitions</u>

Plan Year The 12-month period beginning on July 1 and ending on June 30.

Service A year is credited for each year an employee is a member of the

retirement system.

Average Final

Compensation (AFC) Average annual compensation (or base salary) for 3 years of

Service immediately preceding retirement. (Effective June 30, 1996, Chapter 113, P.L. 1997 provided that the amount of compensation used for employer and member contributions and benefits under the program cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code.)

Accumulated Deductions

The sum (without interest) of all required amounts deducted from the compensation of a member or contributed by him or on his

behalf.

2. Benefits

Service Retirements

25 years of service, or age 55 and 20 years of service. The benefit is a life annuity equal to the greater of (A), (B), and (C) below:

- (A) 2% of AFC up to 30 years of service plus 1% for each year in excess of 30 and prior to age 65;
- (B) 50% of final pay; and
- (C) For a member with 25 years of service, 2% of AFC up to 30 years of service plus 1% for each year in excess of 30.

Vested Retirements

Eligible upon termination of employment. Benefits are summarized as follows:

Termination with 10 or more years of service: Benefit is a deferred life annuity equal to 2% of AFC for service up to 30 years plus 1% for service over 30 years.

Termination with less than 10 years of service: Refund of accumulated deductions.

Ordinary Disability Retirement

Permanent and total disability for causes other than as a direct result of a traumatic event occurring during the performance of regular or assigned duties. Benefit is an immediate life annuity equal to 1/2 of AFC.

Accidental Disability Retirement

Permanent and total disabled as a direct result of a traumatic event occurring while performing regular or assigned duties. Benefit is an immediate life annuity equal to 2/3 of AFC.

Death Benefits

Death of member of system. Spouse must be married to member prior to retirement, or at least five years before member's death. Benefit is an annuity equal to 25% of member's AFC plus an additional 15% (25%) for one (two or more) surviving dependent child (children). If there is no spouse or if the spouse dies or remarries, 20% (35%, 50%) of AFC to one (two, three or more) surviving child (children). If there is no surviving spouse or children, 25% (40%) of AFC to one (two) dependent parent(s). The provision for a survivor annuity payable to dependent parents does not apply in the death of a retired member of the system.

Minimum benefits: Minimum spousal annuity is \$1,600 per annum. If no other benefit is payable prior to retirement, the member's beneficiary shall receive the accumulated deductibles.

3. Employee Contributions

Each member contributes 6% of compensation.

APPENDIX B

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

<u>VALUATION INTEREST RATE</u>: 5.0% per annum, compounded annually.

<u>DEATHS AFTER RETIREMENT</u>: Representative values of the Assumed Annual rates of

mortality for current retirees are as follows:

Age	Service Retirement	Disability Retirement	Widows
40	.21%	.90%	.56%
45	.34	1.10	.68
50	.56	1.42	.87
55	.90	1.93	1.18
60	1.42	2.72	1.67
65	2.17	3.97	2.43
70	2.75	5.91	3.63
75	4.46	8.91	5.50
80	7.41	13.46	8.39
85	11.48	20.22	12.80

MARRIAGE: Husbands are assumed to be 3 years older than wives.

VALUATION METHOD:

The unfunded accrued liability (the difference between the present value of benefits and the valuation assets) was determined as of July 1, 1988 and was amortized over the 14-year period beginning July 1, 1989, and ending on July 1, 2002. Each year the amortization payments were adjusted to reflect any experience gains or losses that occurred during the previous plan year. All gains and losses were amortized over the remaining original amortization period. (Without any guidance, we have assumed that any unfunded accrued liability that develops after the July 1, 2001 valuation will be amortized over 1 year.)

ASSET VALUATION METHOD

Assets are valued at book value which is equivalent to market value.

APPENDIX C

TABULATIONS USED AS A BASIS FOR THE 2006 VALUATION

The following tables give the number and retirement allowances of retired members and beneficiaries classified by age as of July 1, 2006.

TABLE 1

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2006

SERVICE RETIREMENTS

MEN WOMEN **AGE** NUMBER **AMOUNT** NUMBER **AMOUNT** 72 \$ 1 25,660 73 12,752 1 74 3 51,518 75 3 48,045 76 5 85,691 77 6 73,843 78 5 54,362 79 6 63,949 80 3 58,696 81 8,710 82 1 9,010 83 60,045 84 74,264 2 85 23,606 41,187 86 39,945 87 1 7,389 88 5,619 89 1 5,591 91 1 5,133 92 12,325 98 3,295 1 \$ TOTAL 58 763,246 1 7,389

TABLE 2

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2006

ORDINARY DISABILITY RETIREMENTS

	MEN			WOMEN			
AGE	NUMBER	A	AMOUNT	NUMBER	AMOU	JNT	
71	1	\$	7,701				
74	1		7,655				
76	1		6,124				
77	1		5,716				
78	1		5,913				
79	1		7,208				
87	1		5,058				
TOTAL	7	\$	45,375	0	\$	0	

TABLE 3

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2006

ACCIDENTAL DISABILITY RETIREMENTS

		MEN		WOMEN		
AGE	NUMBER	A	MOUNT	NUMBER	AM	OUNT
78	1	\$	7,258			
79	1		8,751			
80	1		12,391			
85				1	\$	5,155
TOTAL	3	\$	28,399	1	\$	5,155

TABLE 4

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 2006

ACTIVE MEMBERS' DEATH BENEFITS

	•	MEN		WOMEN			
AGE	NUMBER	AMOUNT		NUMBER	AMOUNT		
53				1	\$	5,174	
72	1	\$	2,976				
73				1		7,622	
74				1		3,535	
76	1		3,268	1		2,798	
77				1		5,431	
78				2		9,922	
80				1		5,714	
81				4		9,359	
84				1		2,672	
87				2		5,410	
89				1		1,600	
TOTAL	2	\$	6,244	16	\$	59,237	

TABLE 5

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 2006

RETIRED MEMBERS' DEATH BENEFITS

MEN WOMEN AGE NUMBER **AMOUNT NUMBER AMOUNT** \$ 55 1 1,001 1 \$ 66 7,533 68 1 3,894 70 9,745 71 1 2,355 2 72 10,687 2 73 10,650 74 2 10,016 3 75 16,470 2 76 9,256 5 77 20,210 78 7 40,950 79 6 23,637 2 80 8,171 81 8 35,565 82 4 22,873 5 83 17,843 7 84 24,660 85 4 15,404 86 6 18,346 87 5 14,672 3 88 13,218 2 89 4,963 2 90 6,820 2 91 4,708 3 92 6,122 93 1 2,487 94 2 6,032 95 2 5,600 97 2 5,657 104 1 1,743 105 1 1,600 **TOTAL** 1 \$ 1,001 95 381,884