

Kentucky Employees Retirement System

GASB Statements No. 68 Accounting and Financial
Reporting for Pensions as of June 30, 2019



February 6, 2020

Board of Trustees
Kentucky Retirement Systems
Perimeter Park West
1260 Louisville Road
Frankfort, KY 40601

Subject: GASB 68 Reporting Information for Measurement Period Ending June 30, 2019

Dear Members of the Board:

This report contains information for the **Kentucky Employees Retirement System (KERS)** in connection with the Governmental Accounting Standards Board (GASB) Statement No. 68, "Accounting and Financial Reporting for Pensions." This information can be used by participating employers for financial reporting for fiscal years ending between (and including) June 30, 2019 and June 30, 2020. The information provided herein was prepared for the purpose of assisting the Kentucky Retirement Systems (KRS) and participating employers in compliance with the financial reporting and disclosure requirements of GASB Statement No. 68.

The liability calculations presented in this report were performed for the purpose of satisfying the requirements of GASB No. 68 and are not applicable for other purposes, such as determining the plans' funding requirements. The calculation of the plan's liability for other purposes may produce significantly different results. This report may be provided to parties other than the Board of Trustees of the Kentucky Retirement Systems only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation performed as of June 30, 2018. The total pension liability was rolled-forward from the valuation date to the measurement date at June 30, 2019, using generally accepted actuarial principles.

The Board of Trustees has adopted new actuarial assumptions since June 30, 2018. These assumptions are documented in the report titled "Kentucky Retirement Systems 2018 Actuarial Experience Study for the Period Ending June 30, 2018". The Total Pension liability as of June 30, 2019 is determined using these updated assumptions. House Bill 1 passed during the 2019 Special Legislative Session and allows certain employers in the Non-Hazardous plan to elect to cease participating in the System as of June 30, 2020. Since each employer's election is unknown at this time and the legislation was enacted after the June 30, 2019 measurement date, we did not make any adjustments to the Total Pension Liability to reflect this legislation. There were no other plan provision changes and it is our opinion that these procedures are reasonable and appropriate, and comply with applicable requirements under GASB No. 68.

This report provides the Collective Pension Amounts under GASB Statement No. 68 which will be allocated to employers participating in the KERS Non-Hazardous and Hazardous Retirement Systems. The proportionate share of the Collective Pension Amounts for employers that participate in these cost-sharing multiple employer systems maintained by KRS are provided in an appendix to this report.

This report is based upon information furnished by the Retirement System, which includes benefit provisions, membership information, and financial data. We did not audit this data and information, but we did apply a number of tests and concluded that it was reasonable and consistent. GRS is not responsible for the accuracy or completeness of the information provided by the Retirement System. This report complements the GASB 67 accounting valuation report as of June 30, 2019, which was provided to KRS for plan accounting purposes, the "Actuarial Valuation Report as of June 30, 2018", which was provided for plan funding purposes, and the "2018 Actuarial Experience Study for the Period Ending June 30, 2018" which documents the assumptions used in this report. Together, these reports should be considered as a complete report for the measurement period that ended June 30, 2019. Please see the GASB 67 accounting valuation report as of June 30, 2019 for additional discussion of accounting information and the actuarial valuation report and experience study report for information regarding the nature of actuarial calculations, participant data, economic and demographic assumptions, and benefit provisions.

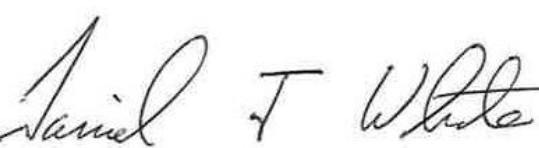
Based on guidance issued by GASB in connection with GASB Statement No. 74, the 1% of pay member contributions for Tier 2 and Tier 3 members to a 401(h) subaccount are considered as an OPEB asset. As a result, the reported fiduciary net positions as of June 30, 2017 and later are net of the 401(h) asset balance.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law.

To the best of our knowledge, this report is complete and accurate and is in accordance with generally recognized actuarial practices and methods. Mr. Newton and Mr. White are Enrolled Actuaries. All three of the undersigned are independent actuaries and members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. They are also experienced in performing valuations for large public retirement systems.

Respectfully submitted,
Gabriel, Roeder, Smith & Company


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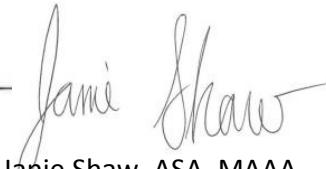

Janie Shaw, ASA, MAAA
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SECTION 1

DISCUSSION

Discussion

Accounting Standards

For pension plans that are administered through trusts or equivalent arrangements, Governmental Accounting Standards Board (GASB) Statement No. 68 establishes standards of financial reporting for employers whose employees participate in a pension plan.

The following discussion provides a summary of the information that is required to be disclosed under GASB Statement No. 68. A number of the required disclosure items under this standard are provided in this report. However, certain information, such as notes regarding accounting policies and investments, are not included in this report. As a result, the employers are responsible for preparing and disclosing the non-actuarial information needed to comply with these accounting standards. Much of this additional information can be readily obtained from KRS's 2019 Comprehensive Annual Financial Report.

Financial Reporting Overview

GASB 68 requires employers to recognize the net pension liability and the pension expense on their financial statements. The net pension liability is the total pension liability, less the amount of the plan's fiduciary net position. In actuarial terms, this is analogous to the accrued liability as measured using the individual entry age normal actuarial cost method less the market value of assets (not the smoothed actuarial value of assets used in the actuarial funding calculations based on the Board's adopted assumptions and methods).

Timing of the Valuation

For the employer's financial reporting purposes, the net pension liability and pension expense should be measured as of the employer's "measurement date" which may not be earlier than the employer's prior fiscal year-end date. The total pension liability, net pension liability, and sensitivity information shown in this report are based on an actuarial valuation performed as of June 30, 2018. The total pension liability was rolled-forward from the valuation date to the measurement date at June 30, 2019, using generally accepted actuarial principles.

The Board of Trustees has adopted new actuarial assumptions since June 30, 2018. These assumptions are documented in the report titled "Kentucky Retirement Systems 2018 Actuarial Experience Study for the Period Ending June 30, 2018". The Total Pension liability as of June 30, 2019 is determined using these updated assumptions. House Bill 1 passed during the 2019 Special Legislative Session and allows certain employers in the Non-Hazardous plan to elect to cease participating in the System as of June 30, 2020. Since each employer's election is unknown at this time and the legislation was enacted after the June 30, 2019 measurement date, we did not make any adjustments to the Total Pension Liability to reflect this legislation. There were no other plan provision changes and it is our opinion that these procedures are reasonable and appropriate, and comply with applicable requirements under GASB No. 68.

Employer Contributions after the Measurement Date and before the Employer's Fiscal Year End

Paragraph 57 of GASB No. 68 indicates that employer contributions made subsequent to the measurement date of the Net Pension Liability and prior to the end of the employer's reporting period can be reported by the employer as a deferred outflow of resources related to pensions. The information contained in this report does not incorporate any contributions made to the pension plan subsequent to June 30, 2019.

Single Discount Rate

Projected benefit payments are required to be discounted to their actuarial present values using a single discount rate that reflects (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the plan's projected fiduciary net position is not sufficient to pay benefits).

Single discount rates of 5.25% for the non-hazardous system and 6.25% for the hazardous system were used to measure the total pension liability for the fiscal year ending June 30, 2019. This single discount rate was based on the expected rate of return on pension plan investments for each system. Based on the stated assumptions and the projection of cash flows as of each fiscal year ending, the pension plan's fiduciary net position and future contributions were projected to be sufficient to finance all the future benefit payments of the current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of the projected benefit payments to determine the total pension liability for each system. The projection of cash flows used to determine the single discount rate assumes that the fund receives the entire actuarially determined contribution in all future years.

Methodology for Proportionate Shares

The proportionate share of the Collective Pension Amounts for employers that participate in the KERS Non-Hazardous and Hazardous Retirement Systems are provided in an appendix to this report. The allocation of the employers' proportionate share of the Net Pension Liability and Pension Expense was determined using the employers' actual contributions for the fiscal year ending June 30, 2019 for the KERS Hazardous fund. This method is expected to be reflective of the employers' long-term contribution effort as well as be transparent to individual employers and their external auditors.

House Bill 265, passed during the 2018 legislative session, allowed certain employers within the KERS Non-Hazardous System to contribute less than the actuarially determined contribution in the 2018/2019 fiscal year. Because this is not expected to be an ongoing contribution reduction, determining the KERS Non-Hazardous employers' proportionate share based on the employers' actual contributions would not be reflective of the employers' long-term contribution effort. Instead, the proportionate share calculations for employers of the KERS Non-Hazardous System were based on the employers' covered payroll provided for fiscal year ending June 30, 2019, which would result in the same proportionate share allocation if all the participating employers contributed the same contribution rate. It is our opinion that this is reasonable and appropriate, and complies with applicable requirements under GASB No. 68.

Non-Employer Contributions

During fiscal year ending June 30, 2019, the KERS Non-Hazardous Retirement fund received \$75.9 million from the General Fund Budget Surplus. Based on our interpretation of GASB 68, these are classified as non-employer contributions but are not considered to be a Special Funding Situation because the amount of the appropriations is not dependent or tied to the actuarially determined contributions for these systems.

Non-employer contributions will be allocated according to each employer's proportionate share contribution described previously. As discussed with KRS and KRS' external auditors, the pension expense presented in these calculations is net of applicable non-employer contributions made during the measurement period. As a result, the participating employers will not be required to separately disclose revenue attributable to these non-employer contributions in their financial statements.

Summary of Population Statistics

The total pension liability described in this report is based on the plan membership as of June 30, 2018:

Membership Status	Non-Hazardous (1)	Hazardous (2)
Inactive plan members currently receiving benefits:	46,526	4,370
Inactive plan members entitled to but no yet receiving benefits:	50,435	5,727
Active plan members:	35,139	3,929
Total plan members:	132,100	14,026

Recognition of Deferred Outflows and Inflows of Resources

According to paragraph 33 of GASB Statement No. 68, *differences between expected and actual experience and changes in assumptions* are recognized in pension expense using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active employees and inactive members) determined as of the beginning of the measurement period.

At the beginning of the 2019 measurement period, the expected remaining service lives of all employees was the following for each retirement system and the average of the expected remaining service lives for purposes of recognizing the applicable deferred outflows and inflows of resources established in the 2019 measurement period.

Development of the Average Expected Remaining Service Life	Non-Hazardous (1)	Hazardous (2)
Total expected remaining service lives of all employees (years):	341,597	41,128
Total plan members:	132,100	14,026
Average expected remaining service life (years):	2.59	2.93

Differences between projected and actual earnings on pension plan investments should be recognized in pension expense using a systematic and rational method over a closed five-year period. For this purpose, the deferred outflows and inflows of resources are recognized in the pension expense as a level dollar amount over the closed period identified above.

SECTION 2

ACCOUNTING EXHIBITS

Exhibit 1

Schedule of the Employers' Net Pension Liability as of June 30, 2019 (\$ in thousands)

System (1)	Total Pension Liability (2)	Plan Fiduciary Net Position (3)	Employers' Net Pension Liability (Asset) (4)	Plan Fiduciary Net Position as a Percentage of the Total Pension Liability (5)	Covered Payroll ¹ (6)	Net Pension Liability as a Percentage of Covered Payroll (7)
KERS Non-Hazardous System	\$ 16,356,674	\$ 2,233,672	\$ 14,123,002	13.66%	\$ 1,485,854	950.50%
KERS Hazardous System	\$ 1,227,226	\$ 680,932	\$ 546,294	55.49%	\$ 160,600	340.16%

Note:

¹ Based on derived compensation for fiscal year ending 2019 using the provided employer contribution information.

Exhibit 2

Schedule of Changes in the Employers' Net Pension Liability (\$ in thousands)

Change in the Net Pension Liability	Measurement Period Ending June 30, 2019	
	KERS Non-Hazardous	KERS Hazardous
(1)	(2)	(3)
Total pension liability		
Service Cost	\$ 184,988	\$ 27,117
Interest	793,163	69,657
Benefit Changes	-	-
Difference between actual and expected experience	70,529	1,395
Assumption Changes	700,464	50,658
Benefit Payments	(1,000,691)	(72,211)
Net Change in Total Pension Liability	\$ 748,453	\$ 76,616
Total Pension Liability - Beginning	\$ 15,608,221	\$ 1,150,610
Total Pension Liability - Ending (a)	\$ 16,356,674	\$ 1,227,226
Plan Fiduciary Net Position¹		
Contributions - Employer	\$ 1,035,462	\$ 55,259
Contributions - Member ²	93,759	17,118
Refunds of contributions to members	(12,342)	(2,684)
Retirement benefits	(988,349)	(69,527)
Net Investment Income ²	112,371	36,380
Administrative Expense	(11,712)	(1,103)
Other ⁴	37	4
Net Change in Plan Fiduciary Net Position	\$ 229,226	\$ 35,447
Plan Fiduciary Net Position - Beginning	\$ 2,004,446	\$ 645,485
Prior Year Adjustment	-	-
Plan Fiduciary Net Position - Ending (b)	\$ 2,233,672	\$ 680,932
Net Pension Liability - Ending (a) - (b)	\$ 14,123,002	\$ 546,294
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	13.66%	55.49%
Covered Payroll³	\$ 1,485,854	\$ 160,600
Net Pension Liability as a Percentage of Covered Payroll	950.50%	340.16%

Notes:

¹ Does not include 401(h) assets for fiscal year 2019

² Does not include 401(h) contributions and investment income on 401(h) contributions for fiscal year 2019

³ Based on derived compensation using the provided employer contributions information for fiscal year 2019

⁴ Northern Trust Settlement

Exhibit 3

**Schedule of the Employers' Contributions
for the Measurement Period Ending June 30, 2019
(\$ in thousands)**

System (1)	Actuarially Determined Contribution ¹ (2)	Total Employer Contributions ² (3)	Contribution Deficiency (Excess) (4)	Covered Employee Payroll ³ (5)	Actual Contributions as a Percentage of Covered Payroll (6)
KERS Non-Hazardous System	\$ 1,055,402	\$ 1,035,462	\$ 19,940	\$ 1,485,854	69.69%
KERS Hazardous System	\$ 55,230	\$ 55,259	\$ (29)	\$ 160,600	34.41%

Note:

¹ Actuarially determined contribution rate for fiscal year ending 2019 is based on the contribution rate calculated with the June 30, 2017 actuarial valuation.

² Employer contributions for the non-hazardous System includes \$75,857,750 of Budget Surplus appropriations from the State.

³ Based on derived compensation for fiscal year ending 2019 using the provided employer contribution information.

Notes to Schedule of Employers' Contributions

The actuarially determined contribution rates effective for fiscal year ending 2019 that are documented in the schedule on the previous page are calculated as of June 30, 2017. Based on the June 30, 2017 actuarial valuation report, the actuarial methods and assumptions used to calculate these contribution rates are below:

Item	KERS Non-Hazardous	KERS Hazardous
Determined by the Actuarial Valuation as of:	June 30, 2017	June 30, 2017
Actuarial Cost Method:	Entry Age Normal	Entry Age Normal
Asset Valuation Method:	20% of the difference between the market value of assets and the expected actuarial value of assets is recognized	20% of the difference between the market value of assets and the expected actuarial value of assets is recognized
Amortization Method:	Level Percent of Pay	Level Percent of Pay
Amortization Period:	26 Years, Closed	26 Years, Closed
Payroll Growth Rate:	0.00%	0.00%
Investment Return:	5.25%	6.25%
Inflation:	2.30%	2.30%
Salary Increases:	3.55% to 15.55%, varies by service	3.55% to 19.55%, varies by service
Mortality:	RP-2000 Combined Mortality Table, projected to 2013 with Scale BB (set back 1 year for females)	RP-2000 Combined Mortality Table, projected to 2013 with Scale BB (set back 1 year for females)

Exhibit 4
Sensitivity of the Net Pension Liability to Changes in the Discount Rate
($\$$ in thousands)

System	(1)	1.00% Decrease (4.25% for Non-Hazardous) (5.25% for Hazardous)	Current Discount Rate (5.25% for Non-Hazardous) (6.25% for Hazardous)	1.00% Increase (6.25% for Non-Hazardous) (7.25% for Hazardous)	(4)	
KERS Non-Hazardous System	\$	16,190,148	\$	14,123,002	\$	12,414,694
KERS Hazardous System	\$	704,415	\$	546,294	\$	416,396

Exhibit 5

Components of Aggregate Pension Expense (Measurement Date of June 30, 2019)

Component		KERS Non-Hazardous	KERS Hazardous
	(1)	(2)	(3)
1. Total service cost:	\$ 184,987,711	\$ 27,116,670	
2. Interest on total pension liability:	793,163,474		69,656,524
3. Current-period benefit changes:	0		0
4. Member contributions:	(93,759,421)		(17,117,760)
5. Projected earnings on plan investments:	(108,300,846)		(40,313,642)
6. Administrative expense:	11,712,305		1,103,083
7. Other:	(36,718)		(3,987)
8. Recognition of deferred outflows/ (inflows) due to liabilities: ¹	923,812,074		75,262,083
9. Recognition of deferred outflows/ (inflows) due to assets: ²	37,694,303		6,975,706
10. Total Aggregate Pension Expense:	\$ 1,749,272,882		\$ 122,678,677

¹ Liability experience and assumption changes.

² Difference between projected and actual investment experience.

Exhibit 6

Summary of Collective Deferred Outflows and Inflows of Resources Arising from Current and Prior Reporting Periods for the KERS Non-Hazardous Retirement System

Differences Between Expected and Actual Liability Experience

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences Between Expected and Actual Liability Experience							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 30,957,685	\$ -	3.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	-	-	2.82	-	-	-	-	-	-	-	-
2016-2017	(134,379,230)	-	2.79	(38,050,032)	-	-	-	-	-	-	-
2017-2018	153,564,272	40,232,706	2.71	56,665,783	40,232,706	-	-	-	-	-	-
2018-2019	70,528,545	<u>43,297,447</u>	2.59	<u>27,231,098</u>	<u>27,231,098</u>	<u>16,066,349</u>	-	-	-	-	-
		\$ 83,530,153		\$ 45,846,849	\$ 67,463,804	\$ 16,066,349	\$ -	\$ -	\$ -	\$ -	\$ -

Differences Between Projected and Actual Earnings on Pension Plan Investments

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences Between Projected and Actual Earnings on Pension Plan Investments							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 143,813,038	\$ -	5.00	\$ 28,762,606	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	182,990,215	36,598,043	5.00	36,598,043	36,598,043	-	-	-	-	-	-
2016-2017	(92,188,870)	(36,875,548)	5.00	(18,437,774)	(18,437,774)	(18,437,774)	-	-	-	-	-
2017-2018	(42,072,569)	(25,243,541)	5.00	(8,414,514)	(8,414,514)	(8,414,514)	(8,414,513)	-	-	-	-
2018-2019	(4,070,292)	<u>(3,256,234)</u>	5.00	<u>(814,058)</u>	<u>(814,058)</u>	<u>(814,058)</u>	<u>(814,058)</u>	<u>(814,058)</u>	<u>(814,060)</u>	<u>(814,060)</u>	-
		\$ (28,777,280)		\$ 37,694,303	\$ 8,931,697	\$ (27,666,346)	\$ (9,228,571)	\$ (814,060)	\$ -	\$ -	\$ -

Effects of Changes of Assumptions

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 694,591,653	\$ -	3.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	923,998,933	-	2.82	-	-	-	-	-	-	-	-
2016-2017	2,145,530,636	-	2.79	607,515,844	-	-	-	-	-	-	-
2017-2018	-	-	2.71	-	-	-	-	-	-	-	-
2018-2019	700,463,897	<u>430,014,516</u>	2.59	<u>270,449,381</u>	<u>270,449,381</u>	<u>159,565,135</u>	-	-	-	-	-
		\$ 430,014,516		\$ 877,965,225	\$ 270,449,381	\$ 159,565,135	\$ -	\$ -	\$ -	\$ -	\$ -

Exhibit 7

Summary of Collective Deferred Outflows and Inflows of Resources Arising from Current and Prior Reporting Periods for the KERS Hazardous Retirement System

Differences Between Expected and Actual Liability Experience

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences Between Expected and Actual Liability Experience							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 6,066,658	\$ -	3.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	-	-	2.70	-	-	-	-	-	-	-	-
2016-2017	26,901,500	1,034,672	3.12	8,622,276	1,034,672	-	-	-	-	-	-
2017-2018	24,214,451	8,439,565	3.07	7,887,443	7,887,443	552,122	-	-	-	-	-
2018-2019	1,395,159	<u>918,996</u>	2.93	<u>476,163</u>	<u>476,163</u>	<u>442,833</u>	-	-	-	-	-
		\$ 10,393,233		\$ 16,985,882	\$ 9,398,278	\$ 994,955	\$ -	\$ -	\$ -	\$ -	\$ -

Differences Between Projected and Actual Earnings on Pension Plan Investments

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences Between Projected and Actual Earnings on Pension Plan Investments							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 34,127,131	\$ -	5.00	\$ 6,825,427	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	42,227,810	8,445,562	5.00	8,445,562	8,445,562	-	-	-	-	-	-
2016-2017	(31,303,329)	(12,521,331)	5.00	(6,260,666)	(6,260,666)	(6,260,665)	-	-	-	-	-
2017-2018	(14,105,825)	(8,463,495)	5.00	(2,821,165)	(2,821,165)	(2,821,165)	(2,821,165)	-	-	-	-
2018-2019	3,932,738	<u>3,146,190</u>	5.00	<u>786,548</u>	<u>786,548</u>	<u>786,548</u>	<u>786,548</u>	<u>786,546</u>	<u>786,546</u>	<u>786,546</u>	<u>786,546</u>
		\$ (9,393,074)		\$ 6,975,706	\$ 150,279	\$ (8,295,282)	\$ (2,034,617)	\$ 786,546	\$ 786,546	\$ 786,546	\$ -

Effects of Changes of Assumptions

Year	Original Outflow/(Inflow)	Deferred Outflow/(Inflow) as of June 30, 2019	Recognition Period (Years)	Increase/(Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions							Thereafter
				2018-2019	2019-2020	2020-2021	2021-2022	2022-2023			
2014-2015	\$ 52,165,476	\$ -	3.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2015-2016	-	-	2.70	-	-	-	-	-	-	-	-
2016-2017	127,878,226	4,918,393	3.12	40,986,611	4,918,393	-	-	-	-	-	-
2017-2018	-	-	3.07	-	-	-	-	-	-	-	-
2018-2019	50,658,499	<u>33,368,909</u>	2.93	<u>17,289,590</u>	<u>17,289,590</u>	<u>16,079,319</u>	-	-	-	-	-
		\$ 38,287,302		\$ 58,276,201	\$ 22,207,983	\$ 16,079,319	\$ -	\$ -	\$ -	\$ -	\$ -

Exhibit 8

Statement of Collective Deferred Outflows and Inflows of Resources to be recognized in Future Pension Expense by Year

Period (1)	KERS		KERS Hazardous (3)
	Non-Hazardous (2)		
1. Fiscal Year + 1	\$ 346,844,882	\$ 31,756,540	
2. Fiscal Year + 2	147,965,138	8,778,992	
3. Fiscal Year + 3	(9,228,571)	(2,034,617)	
4. Fiscal Year + 4	(814,060)	786,546	
5. Fiscal Year + 5	-	-	
6. Thereafter	-	-	
7. Total	\$ 484,767,389	\$ 39,287,461	

Note: The deferred outflow and inflow of resources that are projected to be recognized in future pension expense shown in the table above are for the established bases that are allocated in proportionate share to the participating employers in the System and do not include bases established for individual employers attributable to changes in proportionate shares and differences between employer contributions and the proportionate share of plan contributions.

SECTION 3

DOCUMENTATION OF SUPPORT FOR INVESTMENT RETURN ASSUMPTION

Long-Term Expected Investment Return

The long-term expected rate of return was determined by using a building block method in which best estimate ranges of expected future real rates of returns are developed for each asset class. The ranges are combined by weighting the expected future real rate of return by the target asset allocation percentage. The target allocation and best estimates of arithmetic real rate of return for each major asset class is summarized in the table below. The current long term inflation assumption is 2.30% per annum for both the non-hazardous and hazardous system.

Asset Class	Long-Term Expected Real Rate of Return	Non-Hazardous		Hazardous
		Target Allocation	Target Allocation	
Growth		53.50%	62.50%	
US Equity	4.30%	15.75%	18.75%	
Non-US Equity	4.80%	15.75%	18.75%	
Private Equity	6.65%	7.00%	10.00%	
Specialty Credit/High Yield	2.60%	15.00%	15.00%	
Liquidity		23.50%	14.50%	
Core Bonds	1.35%	20.50%	13.50%	
Cash	0.20%	3.00%	1.00%	
Diversifying Strategies		23.00%	23.00%	
Real Estate	4.85%	5.00%	5.00%	
Opportunistic	2.97%	3.00%	3.00%	
Real Return	4.10%	15.00%	15.00%	

Source: Kentucky Retirement Systems

APPENDIX A

COLLECTIVE PENSION AMOUNTS – KERS NON-HAZARDOUS RETIREMENT SYSTEM

Appendix A: Collective Pension Amounts for KERS Non-Hazardous System

Participating Employer Code		Net Pension Liability as of June 30, 2019								Pension Expense						Outstanding Balance of Deferred Outflows of Resources						Outstanding Balance of Deferred Inflows of Resources						Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Period Ending June 30,			
		2019				2018				Proportionate Share of Aggregate Plan		Deferred Amounts from Changes in Proportion & Differences Between Employer Contrib. & Nonemployer Pension Contributions		Change in Proportion & Differences Between Employer Contrib. & Nonemployer Pension Contributions		Total Deferred Outflow of Resources		Change in Proportion & Differences Between Employer Contrib. & Nonemployer Pension Contributions		Total Deferred Inflow of Resources											
		Actual	FY 18/19	Proportionate Share	Proportionate Share	Discount Rate	Less 1.00%	Discount Rate	Plus 1.00%	Expense	Between Employer Contrib.	Pension	Share of Plan Contributions	Experience	Assumption	Investment	Experience	Assumption	Investment	Experience	Assumption	Investment	Experience	Assumption	Inflow						
1430	ASTON	6,460,150	15,757,726	1,077316%	1,450817%	152,149,362	174,419,053	133,745,483	18,845,197	(34,236,327)	(15,391,130)	(817,228)	(16,208,358)	899,884	4,632,615	394,277	-	5,926,776	-	-	704,299	41,170,755	41,875,054	(25,554,258)	(10,285,830)	(99,421)	(8,769)	(30)			
1433	KET FOUNDATION	743,955	1,811,873	0.123837%	0.112256%	17,494,586	20,055,222	15,378,454	2,165,877	521,954	2,688,831	(93,967)	2,594,864	103,471	532,672	45,335	648,704	1,330,182	-	-	80,982	113,719	194,701	73,919	424,003	(11,432)	-				
1434	KY BAR ASSOCIATION	-	-	0.000000%	0.153159%	-	-	-	-	(7,608,268)	(7,608,268)	-	(7,608,268)	-	-	-	-	-	-	-	-	-	12,190,921	12,190,921	(7,681,654)	(4,509,267)	-				
1435	CHILD WATCH ADVOCACY CTR	87,667	213,508	0.014597%	0.013313%	2,061,553	2,363,276	1,812,173	255,541	92,437	347,778	(11,073)	336,705	12,193	62,769	5,342	101,173	181,477	-	9,543	12,299,3	12,299,3	122,993	50,407	(1,347)	(119)					
1436	LOTUS	324,547	790,423	0.054029%	0.039422%	7,621,929	8,749,994	6,708,776	945,290	1,109,343	2,053,623	(40,093)	2,012,540	45,139	232,376	19,777	357,661	594,436	-	-	35,238	1,029,065	1,029,065	466,818	(4,987)	(440)	-				
1437	SANCTUARY INC	258,042	628,451	0.042969%	0.042974%	6,068,089	6,956,259	5,334,097	751,593	330,928	1,282,521	(32,593)	1,249,928	35,890	184,760	15,725	28,089	95,236	1,029,065	123,425	446,726	28,199	(3,965)	(349)	-						
1438	O A S I S	258,536	629,654	0.043048%	0.040081%	6,079,670	6,959,535	5,344,277	753,027	601	759,028	(32,655)	726,373	35,958	185,113	15,755	140,530	377,356	-	28,143	1,029,065	117,601	99,744	166,093	(15,842)	(3,973)	(350)				
1439	BAREN RIVER CHILD ADVOC	41,840	101,412	0.006933%	0.011834%	979,148	1,122,463	860,711	121,277	(116,876)	4,401	(5,259)	(858)	5,791	47,198	2,537	-	85,339	-	4,532	404,140	406,872	(162,931)	(139,706)	(640)	(56)					
1440	MORHEAD STATE UNIVERSITY	2,205,267	5,370,840	0.367191%	0.52897%	51,856,393	59,448,366	45,885,639	6,423,173	(12,767,312)	(6,344,139)	(6,622,682)	306,715	1,578,975	134,385	-	2,020,075	-	240,052	15,489,737	15,729,90	(9,125,497)	(4,547,343)	(33,886)	(2,989)						
1445	MURRAY STATE UNIV	4,990,354	12,159,163	0.83096%	0.88947%	117,353,109	134,529,767	103,158,161	14,535,338	(2,453,987)	12,081,351	(630,329)	11,451,022	964,082	3,973,145	304,106	961,683	5,533,016	-	543,227	6,476,051	7,019,278	(229,247)	(1,173,567)	(76,684)	(6,765)					
1450	NORTHERN KY UNIVERSITY	14,024,620	34,156,404	2,335187%	2,304209%	329,798,511	380,070,227	289,806,317	40,848,793	(6,147,352)	34,701,441	(1,771,420)	32,930,021	1,950,583	10,041,643	854,633	-	1,526,636	3,922,009	5,448,645	5,175,274	2,457,457	(215,204)	(19,011)	-						
1451	SILVERLEAF	166,400	405,261	0.02770%	0.02553%	3,913,060	4,485,804	3,439,739	484,671	(457,666)	941,737	(21,018)	23,144	19,144	10,140	478,741	631,169	-	18,114	-	18,114	445,170	170,666	(2,557)	(226)						
1452	SPRINGHAVEN INC	190,702	464,446	0.03175%	0.02498%	5,140,858	3,942,038	555,447	353,675	909,122	(24,087)	885,035	26,523	136,543	11,621	481,961	656,648	-	20,759	-	20,759	419,820	220,157	(2,930)	(259)						
1453	SAFE HARBOR	290,255	706,905	0.040832%	0.04321%	6,825,506	7,824,537	5,999,897	845,406	736,738	1,584,144	(36,361)	1,547,483	40,369	207,822	17,687	441,982	707,860	-	31,595	-	31,595	499,336	181,784	(4,460)	(394)					
1454	D.O.V.E.S.	177,899	433,266	0.022775%	0.022775%	4,183,374	4,795,684	3,677,356	518,152	(72,470)	(31,817)	(1,763)	(33,580)	1,941	9,994	851	-	12,786	-	19,365	592,812	221,162	(2,734)	(241)							
1455	GATEWAY CHILD ADVOCACY	13,960	34,000	0.002324%	0.002690%	328,219	376,259	288,517	40,653	(20,654)	636,118	(1,144,270)	1,21,800	24,742	127,375	10,841	667,406	830,364	-	14,868	-	14,868	401,472	105,644	(2,099)	(186)					
1456	JUDI'S PLACE FOR KIDS, INC.	136,589	332,657	0.022743%	0.019666%	3,211,994	3,682,125	2,823,474	397,837	(504,508)	902,345	(17,252)	885,093	18,997	97,798	8,323	394,581	519,699	-	14,486	-	14,486	417,021	105,644	(2,099)	(186)					
1457	KY RIVER CHILD ADVOCACY	40,045	97,527	0.006668%	0.005657%	941,722	1,079,559	827,812	116,642	(4,302)	112,340	(5,058)	107,282	5,570	28,673	65,518	10,202	120,201	12,162	26,361	37,973	34,178	(615)	(55)							
1458	BLUEGRASS RAPE CRISIS CTR	271,292	660,720	0.045172%	0.045828%	6,379,643	7,313,414	5,607,966	790,182	(309,442)	1,099,624	(24,266)	1,065,358	37,732	194,246	16,532	128,306	376,816	-	29,531	151,611	181,142	189,630	10,581	(368)						
1459	NURSING HOME OMBUDSMAN	96,649	235,384	0.016093%	0.012721%	2,272,815	2,605,480	1,997,897	281,510	(15,196)	293,456	(12,208)	281,248	13,443	8,381	5,890	-	88,335	-	10,521	58,781</										

Appendix A: Collective Pension Amounts for KERS Non-Hazardous System

Participating Employer Code	Participating Employer Name	Net Pension Liability as of June 30, 2019										Pension Expense										Outstanding Balance of Deferred Outflows of Resources										Outstanding Balance of Deferred Inflows of Resources										Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Period Ending June 30,									
		Actual Contributions		FY 18/19 Salary		2019 Proportionate Share			2018 Proportionate Share			Deferred Amounts from Changes in Proportion & Differences			Gross Pension Expense			Proportionate Share of Nonemployer Contributions			Net Employer Pension Expense			Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions			Total Deferred Outflow of Resources			Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions			Total Deferred Inflow of Resources			2020		2021		2022		2023		2024		Thereafter					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(26)	(27)	(28)	(29)	(30)	(26)	(27)	(28)	(29)	(30)												
7792	MASTER COMM OHIO COUNTY	-	-	0.000000%	0.000000%	-	-	-	1,000,875	767,476	108,140	5,578	113,718	(4,690)	109,028	5,164	26,583	2,262	26,610	60,619	-	-	-	-	-	-	-	-	-	-	24,418	(24,418)	-	-	-	-	-	-	-	-	-										
7793	MASTER COMM OLDHAM CO	64,223	90,417	0.006182%	0.005985%	873,084	1,000,875	767,476	108,140	5,578	113,718	(4,690)	109,028	5,164	26,583	2,262	26,610	60,619	-	-	-	-	-	-	-	-	-	-	4,042	41,136	16,063	(571)	-	-	-	-	-	-													
7794	MASTER COMM OWEN CO	27,739	39,053	0.002670%	0.001629%	377,084	432,277	331,472	46,706	53,852	100,558	(2,025)	98,533	2,230	11,481	977	91,221	105,909	-	-	-	-	-	-	-	-	-	-	1,746	69,350	35,082	(246)	-	-	-	-	-	-													
7798	MASTER COMM PIKE CO	62,021	87,316	0.005970%	0.005534%	843,143	965,552	741,157	104,432	34,584	139,016	(4,529)	134,487	4,987	25,672	2,185	39,664	72,508	-	-	-	-	-	-	-	-	-	-	3,903	46,457	22,749	(551)	-	-	-	-	-	-													
7799	MASTER COMM FOR LEMING	5,841	8,224	0.000562%	0.000899%	79,371	90,989	65,771	9,831	(68,872)	(59,041)	(426)	469	2,417	206	-	-	3,092	-	-	-	-	-	-	-	-	-	367	51,513	39,744	(8,988)	-	-	-	-	-	-														
7805	MASTER COMM SCOTT CO	76,687	107,965	0.007381%	0.007490%	1,042,419	1,194,995	916,329	129,114	9,784	138,898	(5,599)	133,299	6,165	31,739	2,701	3,054	43,659	-	-	-	-	-	-	-	-	-	-	9,877	25,478	9,046	(681)	-	-	-	-	-	-													
7807	MASTER COMM TROTWOOD CO	46,288	65,167	0.000445%	0.002814%	629,180	721,271	555,075	77,930	140,159	(3,379)	136,780	3,721	19,157	1,630	136,739	161,247	-	-	-	-	-	-	-	-	-	-	2,912	108,071	55,712	(411)	-	-	-	-	-	-														
7814	MASTER COMM WARREN CO	10,343	14,514	0.000345%	0.001345%	1,042,419	1,194,995	916,329	129,114	1,042,419	1,194,995	916,329	129,114	1,042,419	1,194,995	916,329	129,114	1,042,419	1,194,995	916,329	129,114	1,042,419	1,194,995	916,329	129,114	-	-	-	-	-	-	-	-	-	-	-															
7817	MASTER COMM THE STATE	36,403	51,250	0.003504%	0.002505%	494,700	567,303	435,011	61,295	104,180	165,481	(2,658)	162,823	2,927	15,058	1,202	85,692	104,969	-	-	-	-	-	-	-	-	-	2,291	6,419	33,611	(923)	-	-	-	-	-	-														
7819	MASTER COMM FLOVO CO	18,823	26,500	0.0001812%	0.0003470%	255,909	293,365	224,954	31,697	(63,420)	(31,723)	(3,175)	(33,098)	1,514	7,792	663	1,339	11,308	-	-	-	-	-	-	-	-	-	1,185	10,670	131,855	(74,558)	(45,807)	(167)	-	-	-	-	-	-												
7820	MASTER COMM BARREN CO	44,199	62,226	0.0004254%	0.0005533%	600,793	688,729	528,121	74,414	(52,024)	22,390	1,557	3,553	18,293	104,167	106,948	-	-	-	-	-	-	-	-	-	2,781	104,167	32,359	(39,05)	(39,05)	(34)	-	-	-	-	-	-														
7821	MASTER COMM MUHLENBERG CO	53,446	75,244	0.0005144%	0.0003921%	726,487	838,281	638,612	89,983	78,785	168,768	14,686	4,297	22,120	1,883	132,086	160,386	-	-	-	-	-	-	-	-	-	3,363	112,990	44,549	(475)	(41)	-	-	-	-	-	-														
8201	KY RIVER COMM CARE INC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-															
8202	NORTHERN KY REG MMHR BD	61,020	148,611	0.010160%	0.024193%	1,434,897	1,644,919	1,261,333	177,726	(13,835,252)	(13,657,526)	(7,707)	(13,656,233)	8,487	43,689	3,718	204,055	259,949	-	-	-	-	-	-	-	-	-	6,642	19,384,700	19,391,342	(11,952,411)	(1,046,285)	(3,928,54)	(36,673)	-	-	-	-	-												
8204	COMMUNICARE INC	2,386,526	5,812,533	0.373988%	0.445304%	62,116	137,037	90,488	6,951,401	(301,450)	331,939	1,078,826	145,436	-	-	-	-	2,186,201	259,794	6,941,555	7,201,349	(1,046,285)	(3,928,54)	(36,673)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
8205	2,482,783	6,047,18	0.413399%	0.450598%	58,384,350	66,929,909	51,322,280	7,231,477	(5,427,766)	1,803,711	1,777,676	151,296	-	-	-	-	2,274,285	5,642,056	8,812,817	(5,674,898)	(38,151)	(3,364)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
8206	QUAKER STATE	1,494,240	2																																																

Appendix A: Collective Pension Amounts for KERS Non-Hazardous System

APPENDIX B

COLLECTIVE PENSION AMOUNTS – KERS HAZARDOUS RETIREMENT SYSTEM

Appendix B: Collective Pension Amounts for KERS Hazardous System

Participating Employer Code	Participating Employer Name	Actual Contributions	Net Pension Liability as of June 30, 2019						Pension Expense						Outstanding Balance of Deferred Outflows of Resources						Outstanding Balance of Deferred Inflows of Resources						Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Period Ending June 30,					
			2019 Proportionate Share		2018 Proportionate Share		Discount Rate 6.25%	Discount Rate Less: 1.00%	Discount Rate Plus: 1.00%	Proportionate Share of Aggregate Plan Expense	Deferred Amounts from Changes in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions		Gross Pension Expense	Proportionate Share of Nonemployer Contributions	Net Employer Pension Expense	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Outflow of Resources	Liability Experience	Assumption Changes	Investment Experience	Change in Proportion & Differences Between Employer Contrib. & Proportionate Share of Plan Contributions	Total Deferred Inflow of Resources	Recognition of Existing Deferred Outflows (Inflows) of Resources for Future Measurement Period Ending June 30,						
			2019 Proportionate Share	2018 Proportionate Share	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)							
1430	EASTERN KY UNIV	399,578	0.7223604%	0.627451%	3,953,000	5,097,173	3,013,055	887,708	729,704	1,617,412	75,206	277,048	83,878	346,294	782,426	-	-	-	151,847	13,382	165,229	431,412	194,817	(14,723)	5,691	-	-	-	-			
1440	MOREHEAD STATE UNIVERSITY	151,405	0.278362%	0.303269%	1,520,673	1,960,823	1,159,087	341,491	(51,447)	290,044	28,931	106,577	32,267	167,775	-	-	-	58,414	83,203	141,617	41,296	(11,664)	(5,664)	2,190	-	-	-	-				
1445	MURRAY STATE UNIV	217,297	0.399507%	0.411530%	2,182,480	2,814,186	1,663,529	490,110	(748)	489,362	41,522	152,960	46,310	32,149	272,941	-	-	-	83,836	38,485	122,321	136,306	19,301	(8,128)	3,141	-	-	-	-			
1450	NORTHERN KY UNIVERSITY	203,163	0.373520%	0.386465%	2,040,515	2,631,130	1,555,321	458,229	(34,309)	423,920	38,821	143,011	43,298	23,399	248,529	-	-	-	78,383	43,895	122,278	115,680	15,523	(7,600)	2,939	-	-	-	-			
1465	WESTERN KENTUCKY UNIV	377,822	0.694636%	0.628082%	3,794,750	4,893,118	2,892,433	852,170	(56,114)	796,056	72,195	265,957	80,520	228,034	646,706	-	-	-	145,768	22,876	168,644	332,231	154,501	(14,133)	5,463	-	-	-	-			
34030	KENTUCKY STATE UNIVERSITY	39,137	0.071955%	0.185863%	393,085	506,862	299,617	88,273	51,968	140,261	7,478	27,550	8,341	191,023	234,392	-	-	-	15,100	330,298	345,398	30,632	(140,39)	(1,464)	566	-	-	-	-			
34030	UNIVERSITY OF CINCINNATI SYS	0	0.000000%	0.000000%	0	0	0	(14,875)	(14,875)	-	-	-	-	-	-	-	-	-	17,65	17,785	17,785	-	-	-	-	-	-	-	-	-	-	
31040	ATTORNEY GENERAL'S OFFICE	273,479	0.502222%	0.501909%	2,746,752	3,541,783	2,093,628	616,826	(245,118)	371,108	52,257	192,508	58,283	303,048	-	-	-	105,511	85,552	191,063	78,375	39,886	(10,230)	3,955	-	-	-	-				
31040	DEPT MILITARY AFFAIRS	567,991	1.044266%	1.001079%	5,704,755	7,355,964	4,348,277	1,201,092	(66,222)	1,194,870	108,533	399,821	121,049	140,409	769,812	-	-	-	219,137	20,142	230,279	399,112	150,453	(21,247)	8,214	-	-	-	-			
35615	TRAN DEPT OF AVIATION	49,599	0.001189%	0.119801%	498,159	642,349	379,707	111,869	(54,554)	57,315	9,477	34,914	10,570	-	54,961	-	-	-	19,136	89,187	100,333	(19,728)	(32,496)	(1,855)	717	-	-	-	-			
39079	COMMONWEALTH OF TECHNOL	125,098	0.239995%	0.301816%	1,256,447	1,620,119	957,689	282,155	(248,198)	33,957	23,904	88,059	26,660	-	138,623	-	-	-	48,264	315,913	364,177	(135,410)	(87,274)	(4,680)	1,810	-	-	-	-			
50660	DEPT OF FISH & WILDLIFE	1,760,729	3.237147%	3.390093%	17,684,317	22,802,941	13,479,335	3,971,289	(332,040)	3,639,249	336,444	1,239,416	375,242	-	1,951,102	-	-	-	679,310	548,505	1,227,815	707,414	56,276	(65,864)	25,461	-	-	-	-			
50665	COMM KY HORSE PARK	111,051	0.204170%	0.187699%	1,115,367	1,438,204	850,155	250,473	(2,084)	248,389	21,220	78,171	23,667	46,526	169,584	-	-	-	42,845	23,132	65,977	67,284	38,870	(4,154)	1,606	-	-	-	-			
50670	DEPT OF PARKS	457,252	0.840670%	0.823791%	4,592,524	5,921,802	3,500,512	1,021,232	28,574	1,069,897	87,372	321,870	97,448	47,090	553,781	-	-	-	176,413	10,082	196,496	282,399	94,379	(37,104)	6,612	-	-	-	-			
53729	OFF HUMAN RESOURCE MANAGE	1,172,352	2.155401%	2.271598%	11,774,811	15,182,962	8,574,993	2,664,217	(246,168)	2,398,049	224,016	825,245	249,849	-	1,299,110	-	-	-	452,307	403,646	855,953	452,361	17,696	(43,854)	16,954	-	-	-	-			
54520	J&P'S DEPT OF KY STATE POL	1,765,075	3.245138%	3.645344%	17,727,974	22,859,230	13,512,609	3,981,092	(1,149,255)	2,831,837	337,375	1,242,476	376,168	-	1,955,919	-	-	-	680,987	1,583,990	2,264,977	39,080	(307,636)	(66,026)	25,524	-	-	-	-			
54527	J&P'S DEPT OF CORRECTIONS	46,115,031	84.783772%	84.078405%	463,167,792	597,229,033	353,035,623	104,011,549	1,116,344	105,127,893	8,811,769	32,461,401	9,827,919	2,723,926	53,825,015	-	-	-	17,791,716	93,676	17,885,392	28,727,678	8,270,106	(1,725,024)	666,864	-	-	-	-			
58676	DEPT OF INSURANCE	126,651	0.232851%	0.188241%	1,272,049	1,640,237	969,581	285,659	62,594	348,253	24,201	89,152	26,992	139,997	280,342	-	-	-	48,863	112,295	161,158	47,392	74,697	(4,738)	1,833	-	-	-	-			
58680	DEPT OF ALCOHOL & BEVERA	484,665	0.891069																													